

Product Catalog

KVM Solutions + USB Peripherals

2022 ▼
2023





Your Premier Partner Since 1979

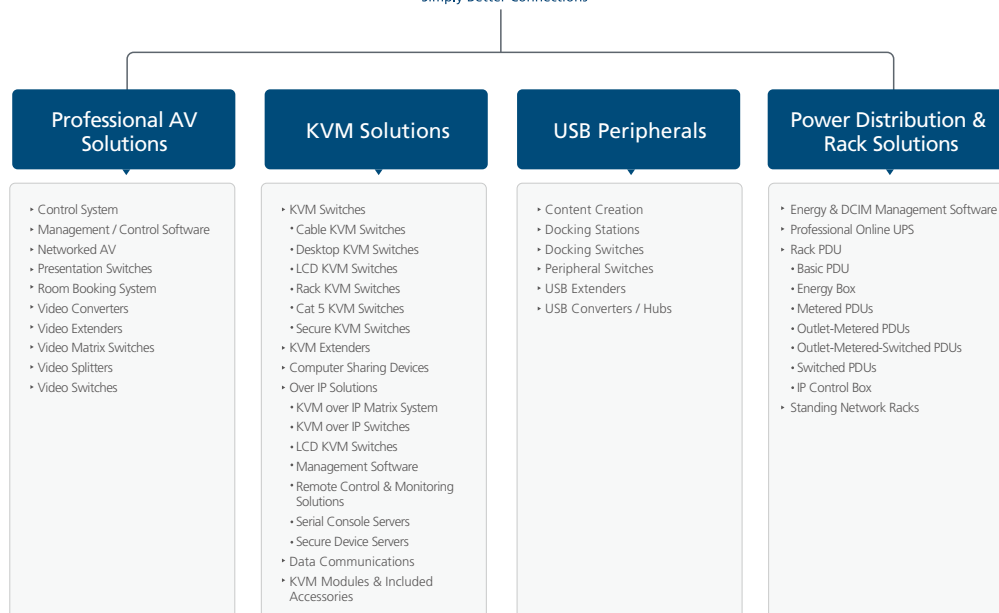
Since 1979, ATEN's success has been anchored upon our dedication to AV/IT technologies and our commitment to sustained innovation and achieving excellence, all fueled by a passion for bringing better connectivity to the world. We will continue to enjoy a solid base of market diversity, geographical expansion, and numerous achievements in alliance with our highly respected clients and partners.

As an accelerator for the integration of AV and IT technologies, ATEN works consistently to create secure, efficient, and productive IP-based AV networking and IT control solutions. Offering integrated KVM, professional AV, and intelligent power solutions, ATEN products connect, manage, and optimize AV/IT equipment in corporate, government, education, broadcasting and media, and transportation environments.



ATEN Product Portfolio

- ATEN's KVM Solutions for IT infrastructure access and management offer integrated KVM connectivity and control capabilities for customers to facilitate the effective management of IT infrastructures from anywhere in the world.
- ATEN's Professional AV Solutions leverage our enhanced video and control capabilities and offer signal management and system control components to build a multitude of flexible integrated solutions for all professional audio/video-related applications.
- ATEN's USB Peripheral products invite you to experience the very latest standards in USB connectivity, mobility, and speed while embracing the next generation of 4K-enabled workstation solutions.
- ATEN's Power Distribution & Rack solutions offer sensor-enabled, energy-saving hardware and software for data centers that provide real-time energy management and performance indicators.



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Company Profile



- Corporate Headquarters
- Subsidiaries and Regional Offices
- R&D Centers
- Manufacturing Facilities

Our Services for You

We help you satisfy all your customers' needs and grow your business.



Global Sales and Service Network

ATEN has a global network of sales and engineering professionals to provide our customers with fast, efficient, and comprehensive service. Our distribution channels and partners extend worldwide to more than 100 countries.



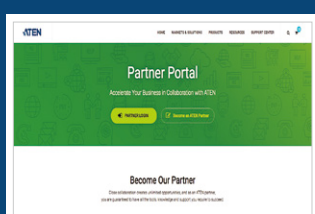
ATEN eNews

ATEN eNews is a monthly publication featuring the latest ATEN product developments, marketing and promotional resources, and corporate activities. Registered partners receive a monthly newsletter to stay up-to-date with ATEN's latest product news and events.



ATEN Download Center

As an ATEN partner, you are guaranteed to have all the tools, knowledge, and support you require to succeed. Authorized partners can access our intuitive information sharing platform to get the latest marketing materials, sales tools, technical documents, product certifications, and more. ATEN also provides integrated marketing programs and promotions to assist partners in promoting ATEN products and services.



ATEN Partner Portal

The ATEN Partner Portal is a web portal that is dedicated to Solution Partners, Channel Partners, and DMR Partners, and provides several ATEN online services, including technical support, product registration, and a wide range of unique partner services.



Complete Enterprise Solutions

ATEN is a leading manufacturer of connectivity management solutions. With 40+ years of experience in the connectivity and shared access management industry, we are committed to empowering individuals and organizations with innovative and effective solutions. Our enterprise line is the preeminent answer for those seeking best-in-class access management and sharing technology.

Quality

Our commitment to quality begins at the very conception of each new product, with a team of experts from a diverse range of fields overseeing development. Sharing a vision of the marriage between design and reliability, teams at ATEN subject each new product to an array of tests, including extended operation, environmental fluctuations, and vibration durability, to name a few. As further evidence of ATEN's efforts, the company has been awarded numerous international certificates for CE, FCC, UL, TUV, PSE and ISTA 3A standards.

"When searching for a partner in connectivity solutions, ATEN was a natural choice due to its long history and reputation of providing high-quality, state-of-the-art KVM switches." - Joshua Longacre, Vice President, Operations & Sales, Lyme Computer Systems.

Research

Research and development is at the heart of ATEN's success. With R&D centers located in Taiwan and Canada, we continue to add to a growing portfolio and applications on connectivity, accessibility, sharing, and peripheral management. One highlight of our manufacturing is the production of Application Specific Integrated Circuits (ASIC). Developed in-house, these chips have allowed ATEN to provide customers with features and benefits found only in our products, such as improved reliability, compatibility, cost, performance, as well as unique functionality and customized feature sets.

User Experience

For every ATEN product, we strive to perfect the user experience through R&D and valuable feedback from our customers. Innovations stemming from our global teams include dual-rail mounting brackets, detachable front panels, space-saving internal power supplies, integrated monitor/keyboard/touchpads, modular connectivity, improved scalability and cabling. Beyond these, enhanced software and a dedication to the user interface to empower customers with improved accessibility and better browser-based management drives our team of specialists to simplify the user experience for you.

Customer Satisfaction

ATEN prides itself on excellence at every level of operations and this also applies to after-sales and technical support. Thanks to our dedicated teams of sales personnel and technicians, ATEN has proudly focused its attention on service to the customer, and to reseller and partner satisfaction.



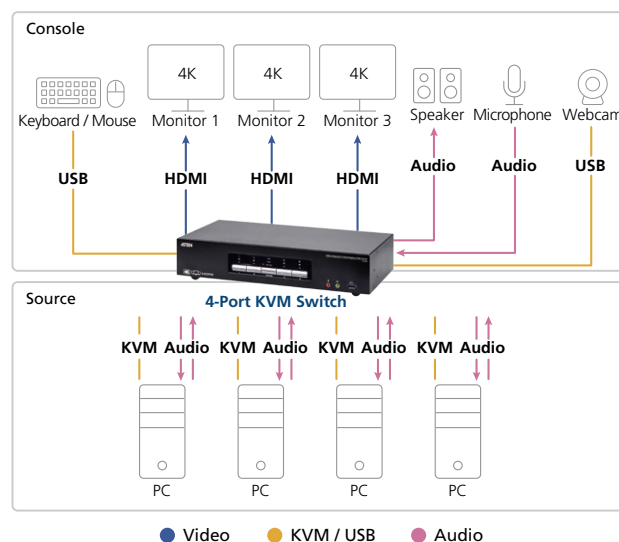


Basic KVM

What is a KVM Switch?

KVM stands for “Keyboard, Video, and Mouse”. A KVM switch allows you to control multiple computers from a single keyboard, monitor, and mouse (Console).

By using a KVM switch, you will save money on redundant hardware, consolidate desk space, and increase performance by having multiple computers working as one.



Advanced KVM Switch

1. Managing Multiple Servers

Additional KVM switches can increase the overall capacity of your installation. There are two methods for expanding your KVM switch installation: cascading, and daisy-chaining.

Cascading

Cascading involves using the KVM port(s) of a “parent” KVM switch (one that is above a switch linked down from it) to connect to the console ports of a “child” KVM switch. With numerous child switches linked down from the parent, the effect is reminiscent of the way water cascades down a waterfall. Cascading adds capacity to a KVM installation, but the parent KVM switch loses at least one KVM port for each cascaded child switch.

Daisy-chaining

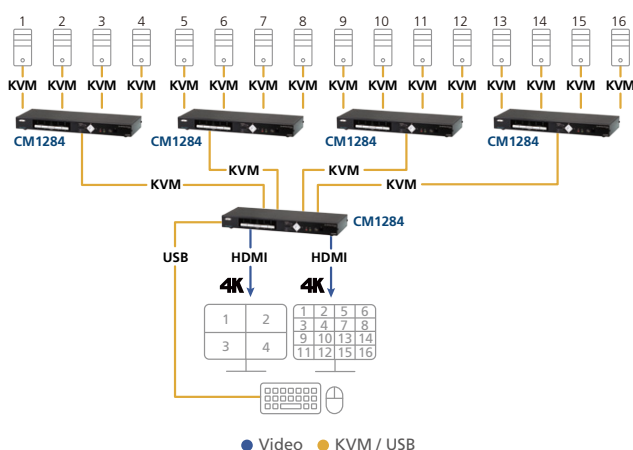
Daisy-chaining refers to connecting two KVM switches via dedicated daisy-chain ports. The switches are strung together in a chain, similar to the way children make chains of daisies by tying the end of one daisy to the head of another.

A daisy-chained installation does not utilize KVM ports or user ports to connect one switch to another as in a cascaded installation and thereby preserves the number of valuable ports. The port capacity of a daisy-chained installation is the total of all the KVM ports for all of the KVM switches on the chain.

Cascading

CM1284

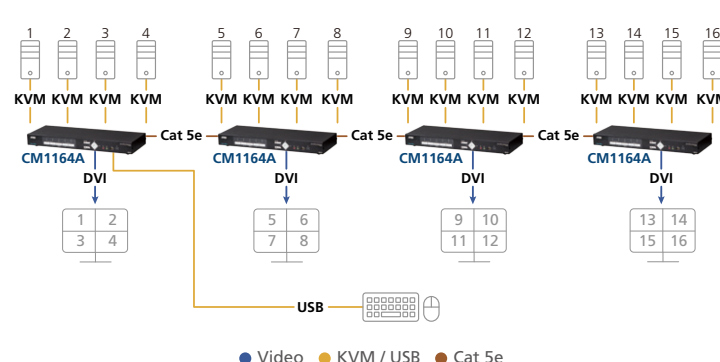
4-Port USB 4K HDMI Multi-View KVMP™ Switch



Daisy-chaining

CM1164A

4-Port USB DVI Multi-View KVMP™ Switch



Innovative Technology from ATEN

- **All-in-One**

ATEN's patented all-in-one custom KVM cables were the first in the industry to offer such technology built directly into a KVM switch. The all-in-one design provides the perfect solution for accessing and sharing 2 or 4 computers in a SOHO or Digital Living Room environment. Its integrated design and small footprint allow it to be placed in a convenient, out-of-the-way location so that it doesn't negatively impact the room's decor.

Products: All Cable KVM Switches.

- **KVMP™**

KVMP™ is a patented ATEN technology that provides the industry's first full-functioning USB hub to be integrated into a KVM switch, allowing peripherals to be shared. KVMP™ provides centralized control of both computers and USB peripherals from a single console. KVMP™ switches are platform-independent and allow you to access different PCs while maintaining peripheral focus on the original computer.

Products: Most Desktop KVM Switches.

- **Video DynaSync™**

Video DynaSync™ is a patented ATEN technology that optimizes your KVM viewing experience. By storing the console monitor's EDID, boot-up display problems are eliminated and operation is smoother thanks to the switch's ability to automatically show the correct display resolution when switching between ports. Video DynaSync™ ensures that your ideal video settings are maintained under all operating systems and is compatible with any operating system.

Products: Most KVMP™, KVM and Cable KVM Switches.

- **Boundless Switching**

Boundless Switching is a patented ATEN technology that allows users to switch KVM focus between multiple computers by moving the mouse cursor across the display or window borders. The mouse cursor can be moved to another display / window in any direction and, depending on your display setup, will switch the KVM focus to that display.

Products: CM1284, CM1164A, CS724KM

- **Deskew**

ATEN's patented automatic delay line synchronizing function corrects the color phase and time errors that can occur when RGB video signals are sent long distances over Cat 5e/6 cables. ATEN's Deskew technology enables you to manually tune the RGB signal settings, ensuring stable, high-quality video in both KVM and video extender installations.

Products: CE775, CE770, CE370 KVM Extender.

- **Auto Switch**

The ATEN US221A / US421A has an Auto Switch function that stores commands sent to the USB peripheral device to be processed on a first-come, first-served basis. This patented technology means that a separate print server is not required in your multifunction printer / USB peripheral installation.

Products: US221A / US421A USB 2.0 Peripheral Switch.

- **Mouse DynaSync™**

Mouse DynaSync™ is a patented ATEN technology that represents the latest in KVM mouse synchronization. With USB mice and Mouse DynaSync™, your local console mouse movement actually becomes the remote unit's mouse movement. The Mouse DynaSync™ technology automatically locks in the local and remote mouse pointers so that you do not waste time re-syncing the two movements.

Products: CN9600, CN8000A, CS1708i / CS1716i (as well as various KVM over IP Products), CL5708i / CL5716i

- **ATEN Exclusive Video Compensation Technology**

ATEN's patented exclusive video compensation technology permits video signals to be transmitted over long distances with enhanced accuracy. The innovative new technology improves on the previous design by minimizing inaccuracy from 10 m to only 1 m. This technology not only improves brightness, it also achieves high skew tolerance for our KVM extender products.

Products: CE350, CE370, CE100, CE770, CE774, CE775



Cable KVM Switches

ATEN's patented all-in-one design eliminates the clutter and bother of connecting separate keyboard, video, and mouse cables by consolidating them into a single cable and building that cable right into the switch. The result is a smart-looking, neat, and tidy work environment.

Cable KVM Switches are offered in PS/2, USB, and a combination of both PS/2 and USB configurations. Users can choose the switch that matches their hardware – even combining USB and PS/2 keyboards and mice.



- **Boundless Switching**

ATEN Boundless Switching technology provides intuitive mouse cursor switching by allowing you to move your mouse across screen/window boundaries to switch between video sources.

- **Flexible Port Selection**

For flexibility and convenience there are three ways to switch ports: with hotkeys from the keyboard, mouse port switching, and by clicking with the remote port selector device. Hotkeys provide more control of the focus, while the remote selector device saves the bother of remembering the appropriate hotkey combinations. In addition, a quick and easy switching solution is to click the mouse's scroll wheel to cycle through the ports.

- **Audio Support**

Cable KVM Switches are designed with microphone and speaker support, allowing audio input/output for multimedia applications that make use of sound.

- **Flexible Focus Assignment**

The KVM focus and audio focus can be switched independently of each other, which means that users can work on the computer with the KVM focus while listening to the output of the computer with the audio focus. Users can switch the KVM focus from port to port without moving the audio focus and vice versa.

- **Multifunction Mouse Support**

Many ATEN Cable KVM Switches support multifunction mice, allowing users to make full use of their mice across a broad spectrum of multimedia applications.

- **USB Peripheral Sharing**

A 2- or 4-port USB hub can be connected to the USB console ports, allowing USB peripherals to connect to the switch and be shared by all the computers on the installation.

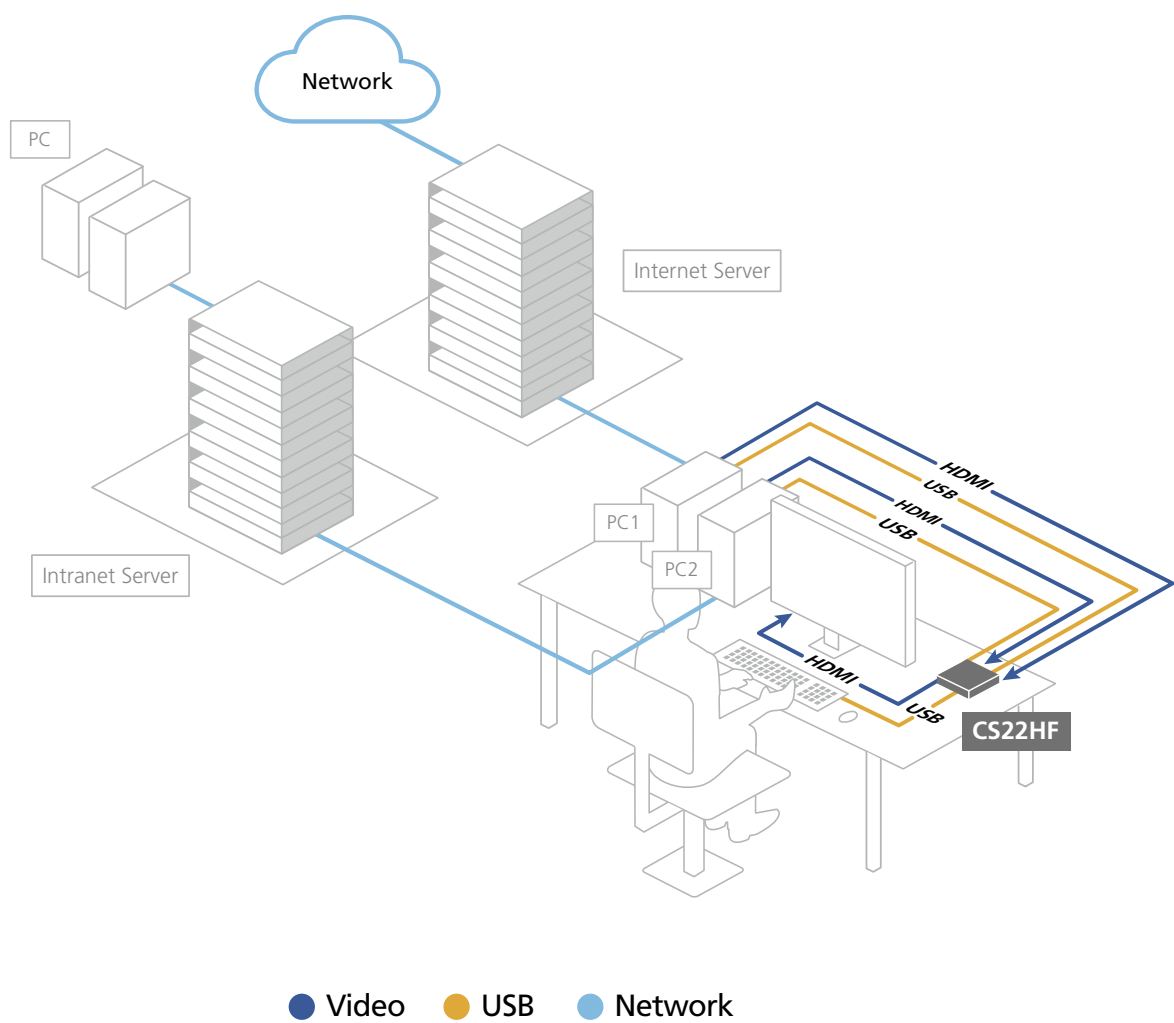
- **Video DynaSync™**

Exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources.

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details.

Product information is subject to change without prior notice.



Feature Comparison

Model No.		CV211	CS62KM	CS52DP	CS22DP	CS22H
Ports		1	2	2	2	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	USB
	Video	VGA	USB	DisplayPort / USB-C	DisplayPort	HDMI
Platform Support		Windows, Linux, Mac	Windows	Windows, Linux, Mac,	Windows, Linux, Mac,	Windows, Linux, Mac
Audio		N/A	N/A	•	•	•
Cable Length		CV211 to laptop: 1.8 m CV211 to computer: 0.4 m	1.2 m	1.2 m	1.2 m	1.2 m
USB Peripheral Sharing		N/A	•	•	•	•
Video DynaSync™		N/A	N/A	N/A	N/A	N/A
Port Selection		N/A	Hotkey, Remote Port Selector, Mouse Wheel, Mouse Cursor	Remote Port Selector	Remote Port Selector	Remote Port Selector

Model No.		CS22HF	CS692	CS682	CS22D	CS62U
Ports		2	2	2	2	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	USB
	Video	HDMI	HDMI	DVI	DVI	VGA
Platform Support		Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Audio		•	•	•	N/A	• (Speaker)
Cable Length		1.2 m	1.2 m	1.2 m	1.2 m	1.8 m
USB Peripheral Sharing		•	•	•	•	•
Video DynaSync™		N/A	•	•	N/A	•
Port Selection		Remote Port Selector	Hotkey, Remote Port Selector, Mouse	Hotkey, Remote Port Selector, Mouse	Remote Port Selector	Hotkey, Mouse

Model No.		CS62US	CS64U	CS64US	CS22U	CS62S
Ports		2	4	4	2	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	PS/2
	Video	VGA	VGA	VGA	VGA	VGA
Platform Support		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux
Audio		• (Speaker)	• (Speaker)	• (Speaker)	N/A	N/A
Cable Length		0.9 m	1.8 m	0.9 m, 1.2 m	0.9 m	0.9 m
USB Peripheral Sharing		•	•	•	•	N/A
Video DynaSync™		•	•	•	N/A	N/A
Port Selection		Hotkey, Mouse	Hotkey	Hotkey	Remote Port Selector	Hotkey

CV211

Laptop USB KVM Console Crash Cart Adapter



Specifications

	CV211
Computer Connections	1
Connectors	
Laptop USB Console (LUC) Port	1 x USB Mini Type B Female
KVM (Computer) Ports	1 x USB Type A Male 1 x VGA Male (Blue)
LEDs	1 (Blue)
Power Consumption	DC5V: 2.35W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.13 kg (0.29 lb)
Dimensions (L x W x H)	7.05 x 5.37 x 3.01 cm (2.78 x 2.11 x 1.19 in.)
Carton Lot	10 pcs
Included Accessories	1x USB Type A to USB Mini-B Cable

Features

USB KVM Console Adapter Provides Direct Laptop-to-Computer Desktop Access

- Transforms your laptop into an ultra-mobile console for servers, computers, kiosks and ATMs
- Virtual media enables file applications, OS patching, diagnostic testing and software installation
- Upgradable firmware to keep unit up to date
- Eliminates the need for heavy and bulky crash carts
- Desktop scaling – user can adjust the size/resolution of the target computer's desktop window by size or ratio

Server and Computer Troubleshooting

- Supports Windows, Linux, and Mac laptops*
- Instant BIOS-level access gives you total control of a server during hardware and operating system failures
- Bi-directional file transfers between the laptop and target computer
- Video recording and image capture feature saves a record of remote operations for future training and troubleshooting
- Mouse DynaSync™ – automatically synchronizes the laptop and target computer's mouse movements
- On-screen keyboard with multi-language support
- Supports hotkey macros – define keystrokes that execute specific actions on the target computer to complete tasks efficiently and accurately

* Mac laptops are supported by CV211 firmware v1.0.076 or higher; macOS are only supported by CV211 with macOS 10.15.7 or earlier

Ease of Use

- Plug-and-Play – no software installation required on either side
- Toolbar helps users easily operate all the functions from a single-click control panel within the remote view window
- Adjustable video settings for optimal picture and performance
- USB bus-powered design with hot-plugging support

Maximum Convenience

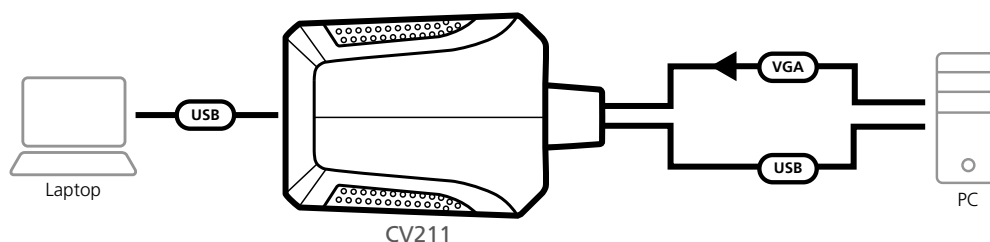
- Built-in VGA and USB keyboard/mouse cables
- Unique cable clip design to get cables under control
- Supports analog video resolutions up to 1920 x 1200 @ 60Hz
- Compact and easy to carry – half-palm size

Optional Accessories

Type	Part No. / Spec.
DisplayPort to VGA Adapter*	VC925

Note: * For more information about the VC925, please refer to the VanCryst product catalog.

Setup > CV211



CS62KM

2-Port USB Boundless Cable KM Switch



Features

- Single USB keyboard and mouse control up to 2 computers
- **Boundless Switching** – simply move the mouse cursor across the display border and onto the corresponding display of the target computer to switch the keyboard/mouse operations from one computer to the next
- Computer selection via remote port selector, hotkey, mouse cursor, and mouse wheel¹
- Works with Windows, iOS, Android, macOS, and Linux operating systems²
- No software required
- Firmware upgradable
- Supports USB hot-plugging
- Bus-powered – no external power adapter required³

Note: 1. Mouse port switching is only supported under mouse emulation mode with a USB 3-button mouse wheel.

2. The boundless switching only supports on Windows operating system.

3. The USB bus-powered design allows the switch to get power from the connected computers. It requires connection to two computers to get sufficient power supply.

Specifications

	CS62KM
Computer Connections	2
Connectors	
Console Ports	2 x USB Type A Female
KVM (Computer) Ports	2 x USB Type A Male
Remote Port Selector	1 x 2.5mm Audio Jack Female
Port Selection	Hotkey, Mouse Wheel, Mouse Cursor, Remote Port Selector
Cable Length	
Console	0.15 m
Computer	1.2 m
Remote Port Selector	1.8 m
Emulation	
Keyboard / Mouse	USB
LEDs	
Selected	2 (Green)
Power Consumption	DC5V: 0.74W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.12 kg (0.26 lb)
Dimensions (L x W x H)	8.45 x 3.40 x 2.21 cm (3.33 x 1.34 x 0.87 in.)
Carton Lot	10 pcs
Included Accessories	1 x Remote Port Selector

CS52DP

2-Port USB-C DisplayPort Hybrid Cable KVM Switch



Features

- One KVM console controls one USB DisplayPort computers and one USB-C device
- Superior video quality – up to 4096 x 2160 @ 60 Hz
- Computer selection via remote port selector
- Supports DisplayPort Alternate Mode (DP Alt Mode) which enables the USB connection to carry DisplayPort signals
- DisplayPort 1.2 and HDCP compliant
- Bus-powered – no external power adapter required
- The console USB ports can be used for USB peripheral sharing
- Multiplatform support – Windows, Mac, Linux, Android, and iOS
- No software required
- Hook design for space-saving and organized workstation
- Supports USB hot-plugging

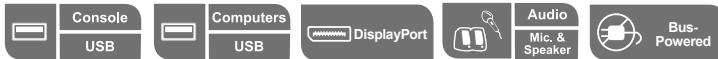
Note: 1. The CS52DP may require an external power supply via the USB Micro-B Power Port. For the USB Micro-B cable connecting to the USB Micro-B Power Port, it requires a separate purchase based on the type of the power supply you use.

Specifications

	CS52DP
Computer Connections	2
Port Selection	Remote Port Selector
Connectors	
Console Ports	1 x DisplayPort Female 2 x USB Type-A Female 1 x 3.5 mm Audio Jack Female (Green) 1 x 3.5 mm Audio Jack Female (Pink)
KVM (Computer) Ports	CPU1: 1 x DisplayPort Male 1 x USB Type-A Male 1 x 3.5 mm Audio Jack Male (Green) 1 x 3.5 mm Audio Jack Male (Pink) CPU2: 1 x USB-C Male 1 x 3.5 mm Audio Jack Male (Green) 1 x 3.5 mm Audio Jack Male (Pink)
Power (Optional)	1 x USB Micro-B Female
Video	4096 x 2160 @ 60 Hz
Cable Length	
KVM	2 x 1.2 m
Remote Port Selector	1.8 m
Emulation	
Keyboard / Mouse	N/A
LEDs	
KVM Port (On Line / Selected)	2 (White)
Power Consumption	DC5V:0.74W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.30 kg (0.66 lb)
Dimensions (L x W x H)	8.34 x 8.42 x 3.04 cm (3.28 x 3.31 x 1.2 in.)

CS22DP

2-Port USB DisplayPort Cable KVM Switch with Remote Port Selector



Features

- One USB keyboard / mouse and one DisplayPort monitor control two USB DisplayPort computers
- Superior video quality – up to 4096 x 2160 @ 30Hz
- Computer selection via Remote Port Selector
- Multiplatform support – Windows, Mac and Linux
- Supports microphone and speakers
- The console USB ports can be used for USB peripheral sharing¹
- Supports USB hot-plugging
- DisplayPort 1.1 compliant; HDCP compliant
- Bus-powered – no external power adapter required

Note: 1. The CS22DP may require an external power supply via the USB Micro-B Power Port. For the USB Micro-B cable connecting to the USB Micro-B Power Port, it requires a separate purchase based on the type of the power supply you use.

Specifications

	CS22DP
Computer Connections	2
Connectors	
Console Ports	2 x USB Type A Female 1 x DisplayPort Female 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)
KVM (Computer) Ports	2 x USB Type A Male 2 x DisplayPort Male 2 x 3.5mm Audio Jack Male (Green) 2 x 3.5mm Audio Jack Male (Pink)
Power (Optional)	1 x USB Micro Type B Female
Port Selection	Remote Port Selector
Video	4096 x 2160 @ 30Hz
Cable Length	
Computer	2 x 1.2 m
Remote Port Selector	1.8 m
Emulation	
Keyboard / Mouse	N/A
LEDs	
Selected	2 (White)
Power Consumption	DC5V: 1.38W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.35 kg (0.77 lb)
Dimensions (L x W x H)	8.34 x 8.42 x 3.04 cm (3.28 x 3.31 x 1.2 in.)
Carton Lot	20 pcs

CS22H

2-Port USB 4K HDMI Cable KVM Switch with Remote Port Selector



1

Cable KVM Switches



Features

- One USB keyboard, mouse and one HDMI monitor control two HDMI computers
- Superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Computer selection via remote port selector
- Multiplatform support – Windows, Mac and Linux
- Supports microphone and speakers
- The console USB ports can be used for USB peripheral sharing¹
- Supports USB hot-plugging
- HDMI compliant; HDCP 2.2 compliant
- Hook design for space-saving and organized workstation
- Bus-powered – no external power adapter required

Note: The CS22H may require an external power supply via the USB Micro-B Power Port. For the USB Micro-B cable connecting to the USB Micro-B Power Port, it requires a separate purchase based on the type of the power supply you use.

Specifications

	CS22H
Computer Connections	2
Connectors	
Console Ports	1 x HDMI Female 2 x USB Type A Female 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)
KVM (Computer) Ports	2 x HDMI Male 2 x USB Type A Male 2 x 3.5mm Audio Jack Male (Green) 2 x 3.5mm Audio Jack Male (Pink)
Power (Optional)	1 x USB Micro Type B Female
Port Selection	Remote Port Selector
Video	4096 x 2160 @ 60Hz
Cable Length	
KVM	2 x 1.2 m
Remote Port Selector	1.8 m
Emulation	
Keyboard / Mouse	N/A
LEDs	
KVM Port (On Line / Selected)	2 (White)
Power Consumption	DC5V: 3.47W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.34 kg (0.75 lb)
Dimensions (L x W x H)	8.34 x 8.42 x 3.04 cm (3.28 x 3.31 x 1.2 in.)
Carton Lot	20 pcs

CS22HF

2-Port USB FHD HDMI Cable KVM Switch



Features

- One KVM console controls two USB HDMI computers
- Superior video quality – up to 1920 x 1080 @ 60Hz / 1920 x 1200 @ 60Hz
- Computer selection via Remote Port Selector
- HDMI compliant; HDCP 1.4 compliant
- Multiplatform support – Windows, Mac, and Linux
- The console USB ports can be used for USB peripheral sharing
- Supports USB hot-plugging
- Bus-powered



Specifications

	CS22HF
Computer Connections	2
Port Selection	Remote Port Selector
Connectors	
Console Ports	1 x HDMI Female 2 x USB Type A Female
KVM Ports	2 x HDMI Male 2 x USB Type A Male
Video	1920 x 1080 @ 60Hz
Cable Length	
Computer	2 x 1.2 m
Remote Port Selector	1.8 m
LEDs	
Selected	2 (Green)
Power Consumption	DC5V: 1.518W:11
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.26 kg (0.57 lb)
Dimensions (L x W x H)	8.24 x 6.65 x 2.52 cm (3.24 x 2.62 x 0.99 in.)
Carton Lot	20 pcs

CS692

2-Port USB HDMI/Audio Cable KVM Switch with Remote Port Selector



Features

- One KVM console controls two USB HDMI computers
- Superior video quality - up to 1920 x 1200; 1080p
- Computer selection via remote port selector, hotkeys, and USB mouse
- USB 2.0 mouse port can be used as a USB hub and for USB peripheral sharing¹
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Independent switching of the KVM and audio focus – KVM is focused on one computer while the audio is focused on the other²
- Firmware upgradable
- HDCP compliant
- Compact design, all-in-one cables (2 x 1.2 m) built-in
- Power on detection
- Supports multifunction and wireless keyboards and mice

Note: 1. This may require an additional power adapter. To use the USB 2.0 mouse port as a USB hub, you must first disable mouse emulation mode.

2. HD audio through the HDMI monitor's built-in speakers cannot be switched independently.

Specifications

	CS692
Computer Connections	2
Connectors	
Console Ports	1 x HDMI Female (Black), 2 x USB Type A Female, 1 x 3.5mm Audio Jack Female (Green), 1 x 3.5mm Audio Jack Female (Pink)
KVM Ports	2 x HDMI Male (Black) 2 x USB Type A Male (Purple) 2 x USB Type A Male (Black) 2 x 3.5mm Audio Jack Male (Green) 2 x 3.5mm Audio Jack Male (Pink)
Port Selection	Hotkey, Remote Port Selector, Mouse
Cable Length	
Computer	2 x 1.2 m
Remote Port Selector	1.8 m
Emulation	
Keyboard / Mouse	USB
Video	1920 x 1080 @ 60Hz; 1920 x 1200 @ 60Hz
LEDs	
KVM	2 (Green)
Power Consumption	DC5V: 0.72W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.48 kg (1.06 lb)
Dimensions (L x W x H)	8.24 x 6.65 x 2.52 cm (3.24 x 2.62 x 0.99 in.)
Carton Lot	10 pcs
Included Accessories	2 x Hotkey Stickers

CS682

2-Port USB DVI/Audio Cable KVM Switch with Remote Port Selector

Our Top-of-the-Range DVI Cable KVM Switch + Video DynaSync™



Features

- One DVI console controls two USB DVI computers
- Superior video quality - up to 1920 x 1200; 1080p
- Computer selection via remote port selector, hotkeys, and USB mouse
- USB 2.0 mouse port can be used as a USB hub and for USB peripheral sharing¹
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Independent switching of the KVM and audio focus – KVM is focused on one computer while the audio is focused on the other
- Firmware upgradable
- Fully DVI-Digital specification compliant
- Compact design, all-in-one cables (2 x 1.2 m) built-in
- Power on detection
- Supports multimedia keyboards and multifunction mice
- HDCP compliant
- Bus-powered – no external power adapter required

Note: 1. This may require an additional power adapter. To use the USB 2.0 mouse port as a USB hub, you must first disable mouse emulation mode.

Specifications

	CS682
Computer Connections	2
Connectors	
Console Ports	1 x DVI-D Female (White), 2 x USB Type A Female 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)
KVM Ports	2 x DVI-D Male (Black), 2 x USB Type A Male (Purple), 2 x USB Type A Male (Black), 2 x 3.5mm Audio Jack Male (Green), 2 x 3.5mm Audio Jack Male (Pink)
Remote Port Selector	1 x 2.5mm Audio Jack Female
Port Selection	Hotkey, Mouse, Remote Port Selector
Cable Length	
Computer	2 x 1.2 m
Remote Port Selector	1.8 m
Emulation	
Keyboard / Mouse	USB
Video	1920 x 1200 @ 60Hz
LEDs	
Computer	2 (Green)
Remote Port Selector	2 (Green)
Power Consumption	DC5V: 1.95W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.49 kg (1.08 lb)
Dimensions (L x W x H)	11.15 x 7.80 x 2.40 cm (4.39 x 3.07 x 0.94 in.)
Carton Lot	10 pcs
Included Accessories	1x Remote Port Selector

CS22D

2-Port USB DVI Cable KVM Switch with Remote Port Selector

Simply Click to Select Computers



Features

- One DVI-D video console controls two USB DVI-D interface computers
- Superior video quality - up to 1920 x 1200; 1080p
- Remote port selector for convenient switch placement
- Mini-USB connector for optional external USB power
- The console USB ports can be used for USB peripheral sharing¹
- Compact design, all-in-one cables (2 x 1.2 m) built-in
- Supports USB hot-plugging
- Supports multifunction mice
- Bus-powered – no external power adapter required

Note: 1. The CS22D may require an external power supply via a micro USB port.

Specifications

	CS22D
Computer Connections	2
Connectors	
Console Ports	1 x DVI-D Female (White) 2 x USB Type A Female 1 x USB Mini Type B Female
KVM Ports	2 x DVI-D Male (Black) 2 x USB Type A Male
Port Selection	Remote Port Selector
Cable Length	
Computer	2 x 1.2 m
Remote Port Selector	1.8 m
Video Resolution	1920 x 1200 @ 60Hz
LEDs	
Selected	2 (Green)
Power Consumption	DC5V: 0.93W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.34 kg (0.75 lb)
Dimensions (L x W x H)	9.95 x 9.66 x 3.01 cm (3.92 x 3.8 x 1.19 in.)
Carton Lot	20 pcs

CS62U / CS62US

2-Port USB VGA/Audio Cable KVM Switch (1.8 m / 0.9 m)

Multiplatform USB Cable KVM Switch



Features

- One USB console controls two USB computers
- Superior video quality - up to 2048 x 1536; DDC2B
- Computer selection via remote port selector, hotkeys, and USB mouse
- [Video DynaSync™](#) – exclusive ATEN technology the eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Console mouse port emulation / bypass feature supports most mouse drivers
- Supports gaming and multimedia keyboards
- Supports multifunction and wireless keyboards and mice
- Compact design, built-in 1.8 m cables (CS62U), 0.9 m cables (CS62US)
- USB mouse port can be used as a USB 1.1 hub and for USB 1.1 peripheral sharing
- All-in-one design
- Auto Scan function to monitor computer operation
- Bus-powered – no external power adapter required

Specifications

	CS62U	CS62US
Computer Connections	2	
Connectors		
Console Ports	1 x HDB-15 Female (Blue) 2 x USB Type A Female 1 x 3.5mm Audio Jack Female (Green)	
KVM Ports	2 x HDB-15 Male (Blue) 2 x USB Type A Male (Black) 2 x 3.5mm Audio Jack Male (Green)	
Port Selection	Hotkey, Mouse	
Cable Length		
Computer	2 x 1.8 m	2 x 0.9 m
Emulation		
Keyboard / Mouse	USB	
Video	2048 x 1536; DDC2B	
LEDs		
Selected	2 (Green)	
Power Consumption	DC5V: 0.328W	DC5V: 0.33W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.37 kg (0.81 lb)	0.28 kg (0.62 lb)
Dimensions (L x W x H)	8.75 x 6.08 x 2.80 cm (3.44 x 2.39 x 1.1 in.)	
Carton Lot	20 pcs	

CS64U / CS64US

4-Port USB VGA/Audio Cable KVM Switch (1.8 m / 0.9 m)



Features

- One USB console controls four USB VGA computers
- Superior video quality - up to 2048 x 1536; DDC2B
- Computer selection via remote port selector, hotkeys, and USB mouse
- Compact design, built-in 1.8 m cables (CS64U), 0.9 / 1.2 m cables (CS64US)
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Firmware upgradable
- USB mouse port can be used as a USB 1.1 hub and for USB 1.1 peripheral sharing
- Supports multimedia USB keyboards and multifunction mice
- Supports wireless keyboards and mice
- All-in-one design
- Auto Scan function to monitor computer operation
- Bus-powered – no external power adapter required

Specifications

	CS64U	CS64US
Computer Connections	4	
Connectors		
Console Ports	1 x HDB-15 Female (Blue) 2 x USB Type A Female 1 x 3.5mm Audio Jack Female (Green)	
KVM Ports	4 x HDB-15 Male (Blue) 4 x USB Type A Male 4 x 3.5mm Audio Jack Male (Green)	
Port Selection	Hotkey	
Cable Length		
Computer	4 x 1.8 m	2 x 0.9 m; 2 x 1.2 m
Emulation		
Keyboard / Mouse	USB	
Video	2048 x 1536; DDC2B	
LEDs		
Selected	4 (Green)	
Power Consumption	DC5V: 0.9W	
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.73 kg (1.61 lb)	0.58 kg (1.28 lb)
Dimensions (L x W x H)	9.41 x 9.72 x 2.60 cm (3.7 x 3.83 x 1.02 in.)	
Carton Lot	5 pcs	
Included Accessories	N/A	2 x Hotkey Stickers

CS22U

2-Port USB VGA Cable KVM Switch with Remote Port Selector

Simply Click to Select Computers



Features

- One USB console controls two USB computers
- Superior video quality - up to 2048 x 1536; DDC2B
- Computer selection via remote port selector
- The console USB ports can be used for USB peripheral sharing
- Compact design, built-in 0.9 m cables
- Supports multifunction mice
- Bus-powered – no external power adapter required

Specifications

	CS22U
Computer Connections	2
Connectors	
Console Ports	1 x HDB-15 Female (Blue) 2 x USB Type A Female
KVM Ports	2 x HDB-15 Male (Blue) 4 x USB Type A Male (Black)
Port Selection	Remote Port Selector
Cable Length	
Computer	2 x 0.9 m
Remote Port Selector	1.8 m
Video	2048 x 1536; DDC2B
LEDs	
Selected	2
Power Consumption	DC5V: 0.14W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.30 kg (0.66 lb)
Dimensions (L x W x H)	8.24 x 7.01 x 2.46 cm (3.24 x 2.76 x 0.97 in.)
Carton Lot	20 pcs

CS62S

2-Port PS/2 VGA Cable KVM Switch



Features

- One PS/2 console controls two PS/2 computers
- Superior video quality-up to 2048 x 1536; DDC2B
- PC selection via hotkeys
- Compact design, built-in 0.9 m cables
- Auto Scan function to monitor computer operation
- Bus-powered – no external power adapter required

Specifications

	CS62S
Computer Connections	2
Connectors	
Console Ports	1 x HDB-15 Female (Blue) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green)
KVM Ports	2 x HDB-15 Male (Blue) 2 x 6-pin Mini-DIN Male (Purple) 2 x 6-pin Mini-DIN Male (Green)
Port Selection	Hotkey
Cable Length	
Computer	2 x 0.9 m
Emulation	
Keyboard / Mouse	PS/2
Video	2048 x 1536; DDC2B
LEDs	
Selected	2 (Green)
Power Consumption	DC5V: 0.17W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.25 kg (0.55 lb)
Dimensions (L x W x H)	7.30 x 6.24 x 2.25 cm (2.87 x 2.46 x 0.89 in.)
Carton Lot	20 pcs

Cat 5 KVM Switches

KH1508A / KH1516A / KH1532A • KH2508A / KH2516A

2

Cat 5 KVM Switches

ATEN Multi-Interface Cat 5 High-Density KVM Switches are designed to improve IT asset management by reducing costs and consolidating access and control of computer resources. These KVM switches feature a compact 1U high housing design, 8, 16, or 32-port configurations and control from up to two KVM consoles. They can also be daisy-chained to connect up to 1,024 servers at a distance of up to 50 meters away.

ATEN Multi-Interface Cat 5 High-Density KVM Switches let you manage PS/2, USB, Sun, and serial devices from one source. Various KVM adapter cables provide keyboard, video, and mouse connectivity through a single Cat 5e/6 cable, which reduces cable bulk and saves money. The ATEN Adapter ID function makes server re-allocation easy by automatically assigning and retaining unique names and settings for each attached server.



In addition, administrators can easily connect and manage servers with the on-screen display (OSD), hotkey combinations, and pushbuttons located on the switch. The powerful Auto Scan function allows users to scan all server activities running on the installation by interval setting or automatically scan one port at a time.

- **Flexible Deployment**

Cat 5e/6 cables can extend your connection up to 50 m. They also minimize cable clutter and eliminate the need to purchase additional KVM extenders.

- **Multi-Platform Integration**

Windows, Mac, Sun, Linux, and VT100 based serial devices can be easily managed from one solution by using KVM adapter cables.

- **Grow Your Business With Smart Investment**

Effortlessly expand your growing network by using the existing switches and daisy-chain additional switches to control up to 1,024 servers.

- **Working Smart**

ATEN's unique Adapter ID function simplifies the server re-allocation and reconfiguration procedures. All that is required is to move the server's adapter cable along with the server. When you move a server with its adapter cable from one port to another, the Adapter ID function retains all the settings at the new location.

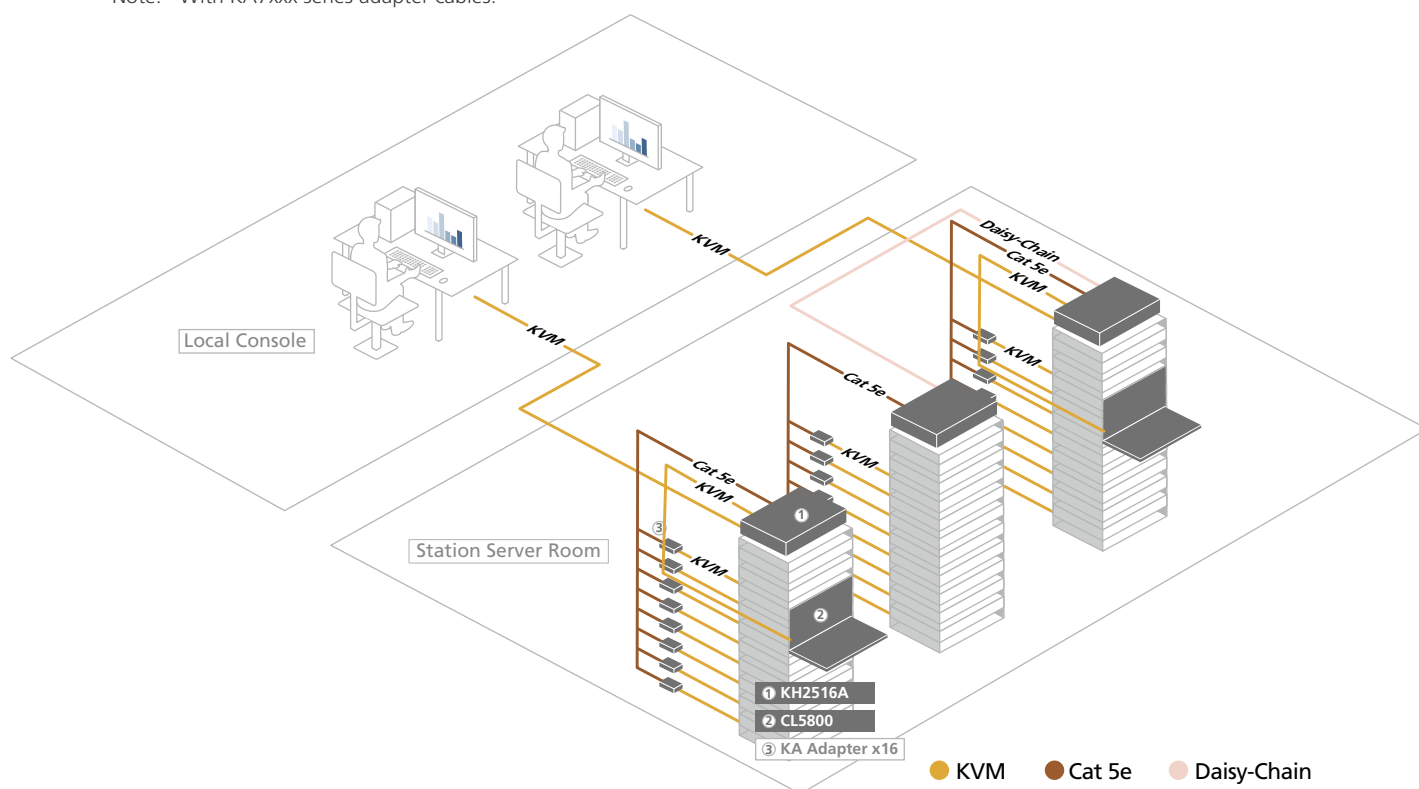
Note: The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Comparison

Model		KH1508A / KH1516A / KH1532A	KH2508A / KH2516A
Console		1	2
Computer Connections	Direct	8 / 16 / 32	8 / 16
	Max.	256 / 512 / 1024 (Daisy-Chain)	128 / 256 (Daisy-Chain)
Port Selection		OSD, Hotkey, Pushbutton	
Computer	Connector	RJ-45	
	Support Interface	PS/2, USB, Serial*	
	Support Platform	Windows, Linux, Mac, Sun*	
Console Connectors		PS/2; USB; HDB-15	
Video		1920 x 1200 @ 60Hz (30m*); 1600 x 1200 @ 60Hz (40m*); 1280 x 1024 @ 75Hz (50m*)	

Note: *With KA7xxx series adapter cables.



KH1508A / KH1516A / KH1532A

8/16/32-Port Multi-Interface Cat 5 KVM Switch



KH1532A



Front



Rear



Highlights

- Daisy-chain up to 31 additional KVM switches for control of up to 256 / 512 / 1024 servers*
- Three port selection methods: Pushbutton (via front panel pushbuttons), Hotkey, and OSD (On Screen Display)
- Two-level password security – supports one administrator and ten user profiles. Password protection prevents unauthorized access to the installation

Note: *Refer to page 8-1 for details on compatible KVM switches.

Hardware

- Space-saving RJ-45 connectors and Cat 5e/6 cabling
- KVM adapter cables designed with automatic conversion to allow flexible interface combinations (PS/2, USB with VGA, DVI, HDMI and DisplayPort video interface, Sun and serial) to control all computer types

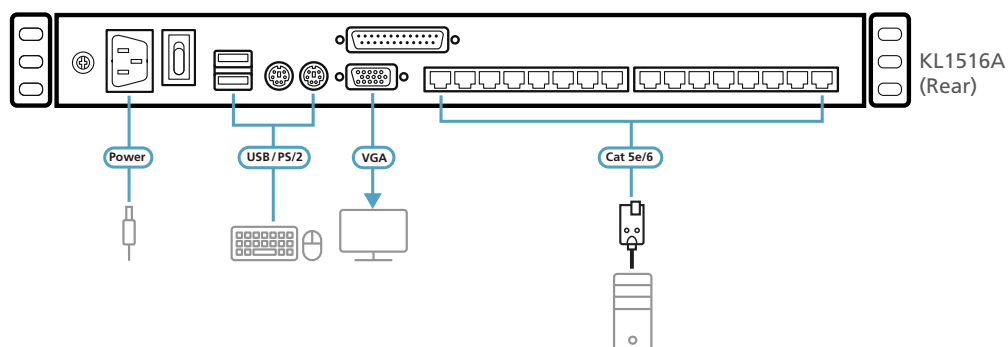
Management

- Adapter ID – adapter cable's configuration is stored on the adapter – no need to reconfigure the adapter when moving a server to a new port
- Multiple User Accounts – supports up to 10 user and 1 administrator accounts

Easy-to-Use Interface

- Broadcast Mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system wide shutdown, etc.
- Multilingual OSD support – English, German, Japanese, Simplified Chinese, Traditional Chinese, French, Spanish, Russian

Setup >



Specifications

	KH1508A	KH1516A	KH1532A
Computer Connections			
Direct	8	16	32
Maximum	256 (via Daisy-chain)	512 (via Daisy-chain)	1024 (via Daisy-chain)
Port Selection	OSD, Hotkey, Pushbutton		
Connectors			
Console Ports	2 x USB Type A Female 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDB-15 Female (Blue)		
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female	32 x RJ-45 Female
Daisy Chain Ports	1 x DB-25 Female (Black) 1 x DB-25 Male (Black)		
Firmware Upgrade	1 x RJ-11 Female (Black)		
Power	1 x IEC 60320 / C 14		
LEDs			
Online	8 (Green)	16 (Green)	32 (Green)
Selected	8 (Orange)	16 (Orange)	32 (Orange)
Power	1 (Blue)		
Station ID	1 x 2 Digit 7-segment (Orange)		
Video	1920 x 1200 @ 60 Hz (30 m*) 1600 x 1200 @ 60 Hz (40 m*) 1280 x 1024 @ 75 Hz (50 m*)		
Emulation			
Keyboard / Mouse	PS/2; USB		
Maximum Input Power Rating	100-240V AC; 50/60 Hz; 1A		
Power Consumption	AC110V: 5.1W; AC220V: 5.1W	AC110V: 5.3W; AC220V: 5.3W	AC110V: 4.6W; AC220V: 4.8W
Environmental			
Operating Temperature	0 – 50°C		0 – 40°C
Storage Temperature	-20 – 60°C		
Humidity	0 – 80% RH, Non-condensing		
Physical Properties			
Housing	Metal		
Weight	2.65 kg (5.84 lb)	2.67 kg (5.88 lb)	2.81 kg (6.19 lb)
Dimensions (L x W x H)	43.72 x 16.36 x 4.40 cm (17.21 x 6.44 x 1.73 in.)		
Carton Lot	3 pcs		

Note: *With KA7xxx series adapter cables.

Included Accessories

	KH1508A / KH1516A / KH1532A
Firmware Upgrade Cable	•
Power Cord	•
Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
Daisy-Chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m); 2L-1715 (15 m)	17-10
KVM Adapter Cables	Please refer to page 17-4	

KH2508A / KH2516A

2-Console 8/16-Port Multi-Interface Cat 5 KVM Switch



KH2516A



Front



Rear



Highlights

- Two KVM consoles independently and simultaneously control up to 8 directly connected computers
- Daisy-chain up to 15 additional KVM switches for control of up to 128 / 256 servers*
- Three port selection methods: Manual (via front panel pushbuttons), Hotkey, and OSD (On Screen Display)
- Two-Level Password Security – supports one administrator and ten user profiles. Password protection prevents unauthorized accessing to the installation

Note: *Refer to page 8-1 for details on compatible KVM switches.

Hardware

- Space-saving RJ-45 connectors and Cat 5e/6 cabling
- KVM adapter cables designed with automatic conversion to allow flexible interface combinations (PS/2, USB with VGA, DVI, HDMI and DisplayPort video interface, Sun and serial) to control all computer types

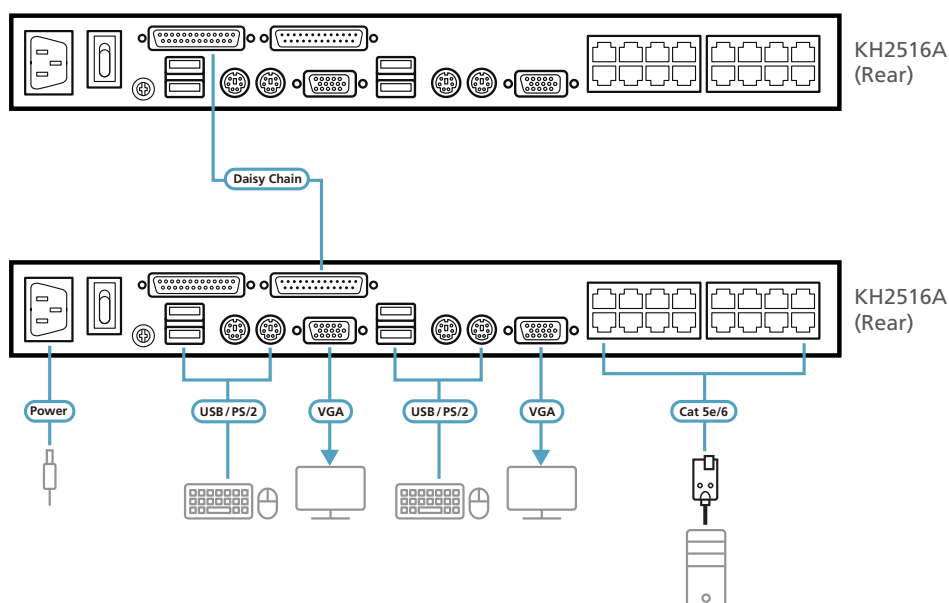
Management

- Adapter ID – adapter cable's configuration is stored on the adapter – no need to reconfigure the adapter when moving a server to a new port
- Multiple User Accounts – supports up to 10 user and 1 administrator accounts

Easy-to-Use Interface

- Broadcast Mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system wide shutdown, etc.
- Multilingual OSD support – English, German, Japanese, Simplified Chinese, Traditional Chinese, French, Spanish, Russian

Setup >



Specifications

	KH2508A	KH2516A
Computer Connections		
Direct	8	16
Maximum	128 (via Daisy-chain)	256 (via Daisy-chain)
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
Console Ports	4 x USB Type A Female 2 x 6-pin Mini-DIN Female (Purple) 2 x 6-pin Mini-DIN Female (Green) 2 x HDB-15 Female (Blue)	
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Daisy Chain Ports	1 x DB-25 Female (Black) 1 x DB-25 Male (Black)	
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x IEC 60320/C14	
LEDs		
Online	8 (Green)	16 (Green)
Selected	8 (Orange)	16 (Orange)
Console	2 (Orange)	
Power	1 (Blue)	
Station ID	1 x 7-segment LED display (Orange)	
Video	1920 x 1200 @ 60 Hz (30 m*) 1600 x 1200 @ 60 Hz (40 m*) 1280 x 1024 @ 75 Hz (50 m*)	
Emulation		
Keyboard / Mouse	PS/2; USB	
Maximum Input Power Rating	100-240V AC; 50/60 Hz; 1A	
Power Consumption	AC110V: 8.5W; AC220V: 9.3W	AC110V: 9.7W; AC220V: 10.7W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	2.81 kg (6.19 lb)	2.85 kg (6.28 lb)
Dimensions (L x W x H)	43.72 x 15.58 x 4.40 cm (17.21 x 6.13 x 1.73 in.)	
Carton Lot	3 pcs	

Note: *With KA7xxx series adapter cables.

Included Accessories

	KH2508A / KH2516A
Firmware Upgrade Cable	•
Power Cord	•
Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
Daisy-Chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m); 2L-1715 (15 m)	17-10
KVM Adapter Cables	Please refer to page 17-4	

Computer Sharing Devices

CS261

USB DVI Computer Sharing Device

Share a DVI computer with two USB consoles



3

Computer Sharing Devices



Front



Rear



Features

- Single USB DVI-D computer is shared by two USB consoles
- Manual or Auto console selection
- Superior video quality – supports resolutions up to 1080p, 1920 x 1200, and 3840 x 2160 @ 30Hz¹
- **EDID Expert™** – selects optimum EDID settings for smooth power up, high-quality display and use of the best resolution across different monitors
- Supports RS-232 serial commands to switch operation and configure settings
- On screen display informs user when system is in use
- Private mode for a privileged user
- Screen Saver function
- Multiplatform Support – Windows, Linux, Mac and Sun
- HDCP 1.4 compliant
- No Software required

Note: 1. 3840 x 2160 @ 30Hz is supported when using DVI-to-HDMI cables.

Specifications

	CS261
Computer Connections	1
Connectors	
Console Ports	2 x DVI-D Female (White) 4 x USB Type A Female 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)
KVM Ports	1 x DVI-D Female (White) 1 x USB Type B Female 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)
RS-232	1 x RJ-11 Female
Power	1 x DC Jack (Black)
Console Selection	Pushbutton, Hotkey*, RS-232 Commands Note: *Selecting the console via hotkeys only works in Manual Mode
Video	3840 x 2160 @ 30Hz
LEDs	
Selected	2 (Green)
Manual	1 (Orange)
Power Consumption	DC5V: 2.4W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.72 kg (1.59 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	5 pcs
Included Accessories	1x USB DVI-D Single Link KVM Cable; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
HDMI to DVI Adapter	2A-128G	17-12
DVI to HDMI Adapter	2A-127G	17-12

CS231

USB VGA Computer Sharing Device

Share a VGA computer with two consoles (USB, PS/2 compatible)



Front



Rear



Features

- Single USB VGA computer is shared by two USB consoles
- Manual or Auto console selection
- On Screen Display informs user when system is in use
- Private Mode for a privileged user
- Screen Saver function
- Supports USB and PS/2 computers
- Supports VGA and SVGA multisync monitors
- Multiplatform support – Windows, Linux, Mac and Unix
- No software required

Specifications

	CS231
Computer Connections	1
Connectors	
Console Ports	2 x HDB-15 Female (Blue) 4 x USB Type A Female
KVM Ports	1 x SPHD-15 Female (Green)
Firmware Upgrade	1 x RJ-11 Female
Power	1 x DC Jack (Black)
Console Selection	Pushbutton, Hotkey* Note: *Selecting console via hotkeys only works in Manual Mode.
Video	1920 x 1440
LEDs	
Selected	2 (Green)
Manual	1 (Orange)
Power Consumption	DC5.3V, 2.2W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.56 kg (1.23 lb)
Dimensions (L x W x H)	14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.)
Carton Lot	10 pcs
Included Accessories	1x USB KVM Cable; 1x Firmware Upgrade Cable; 1x Power Adapter; 1x DIP Switch Sticker

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Adapters for PS/2 Console Support	PS/2 to USB Adapter: UC10KM	17-3
USB KVM Cables (with built-in PS/2 to USB Converter)	2L-5202UP (1.8 m), 2L-5203UP (3 m), 2L-5205UP (5 m), 2L-5206UP (6 m)	17-9

Desktop KVM Switches

ATEN desktop KVM switches provide both ergonomic style and advanced functionality for the SOHO desktop environment. Desktop KVM switches allow you to switch and manage up to four PCs with various video types, such as USB-C, DisplayPort, HDMI, DVI, or VGA, and share USB peripherals and multi-channel audio functionality from one single-screen to three-screen console.



- **Boundless Switching**

ATEN Boundless Switching technology provides intuitive mouse cursor switching by moving your mouse across screen/window boundaries to switch between video sources.

- **Integrated USB Hub**

The KVMP Switch's design provides USB hub functionality – allowing USB peripherals to connect to the switch and be shared by all the computers on the installation.

- **Integrated High Definition Audio**

Featuring support for multi-channel digital audio formats – including Dolby True HD, DTS HD Master Audio, 2.1 and 7.1 Surround Sound – users can enjoy a true high-definition audio experience.

- **Dual Display – Dual View**

The Dual Display function is ideal for multimedia power users since it supports a separate output on each monitor. Users can have the display of the computer they are using on one monitor, while they keep an eye on the video output of the other computers on the second one, allowing the video output to seamlessly display on two monitors.

- **Up to 4K DCI Resolution with a Wide Range of Video Standards**

All ATEN desktop KVM solutions offer stunning video quality in a range of video standards, including USB-C, DisplayPort, HDMI, Dual Link DVI, and more, allowing you to keep pace with the boom in 4K DCI (4096 x 2160 @ 60Hz) video content across all sectors and take full advantage of the benefits of visual excellence in terms of both work efficiency and viewing pleasure.

- **Video DynaSync™**

Exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources.

- **Interface Flexibility**

For the convenience and flexibility of having both PS/2 and USB interface computers on the same installation, many ATEN KVM switches provide custom cables with both PS/2 and USB connectors.

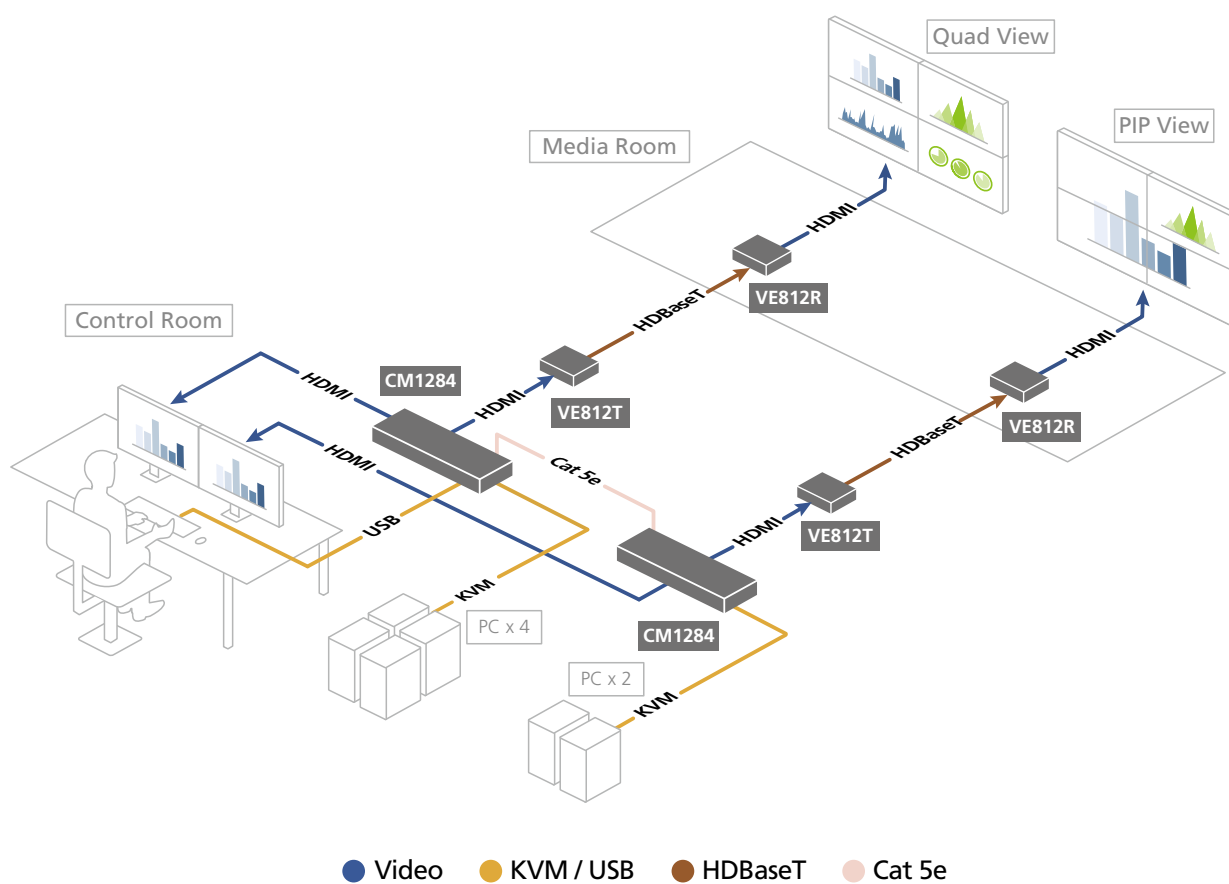
- **Flexible Focus Assignment**

The KVM, audio and USB focus can all be assigned to one computer, or assigned independently. Assigning the focus independently means that users can give one computer the KVM console focus, another the USB hub focus, while a third has the audio focus.

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details.

Product information is subject to change without prior notice.



Feature Comparison

Model No.		CM1284	CM1164A	CM1942	CS724KM	CS1953	CS1964
Ports		4	4	2	4	3	4
Interface	Keyboard, Mouse	USB	USB	USB	USB	USB	USB
	Video	HDMI	DVI (Single Link)	DisplayPort/HDMI**	N/A	DisplayPort/USB-C*	DisplayPort/HDMI**
Platform Support		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows	Windows, Linux, Mac	Windows, Linux, Mac
USB Hub Built-in		•	•	• (USB 3.1 Gen 1)	•	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)
Audio		•	•	•	• (Speaker)	• (Speaker)	•
Independent Switching		•	•	•	•	•	•
Video DynaSync™		•	•	•	N/A	N/A	•
Dual Display		•	N/A	•	N/A	N/A	• (Triple Display)
Port Selection		Hotkey, Pushbutton, IR Remote Control, OSD, Mouse, RS-232 commands	Hotkey, Pushbutton, IR Remote Control, OSD, Mouse, RS-232 commands	Hotkey, Pushbutton, Mouse Wheel, Mouse Cursor, RS-232 commands	Hotkey, Pushbutton, Mouse Wheel, Mouse Cursor, RS-232 commands	Hotkey, Pushbutton, Mouse, Remote Port Selector	Hotkey, Pushbutton, Mouse, RS-232 commands

Note: * USB-C transfers video, audio, and data.

** The HDMI port is located in the console section at the back of the switch.

Model No.		CS1944DP	CS1942DP	CS1924M	CS1922M	CS1924	CS1922
Ports		4	2	4	2	4	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	USB	USB
	Video	DisplayPort	DisplayPort	DisplayPort / HDMI**	DisplayPort / HDMI**	DisplayPort	DisplayPort
Platform Support		Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac
USB Hub Built-in		• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)
Audio		•	•	•	•	•	•
Independent Switching		•	•	•	•	•	•
Video DynaSync™		N/A	N/A	N/A	N/A	N/A	N/A
Dual Display		•	•	•	•	N/A	N/A
Port Selection		Hotkey, Pushbutton, Mouse, RS-232 commands	Hotkey, Pushbutton, Mouse, RS-232 commands	Hotkey, Pushbutton, Mouse, RS-232 commands	Hotkey, Pushbutton, Mouse, RS-232 commands	Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse

Model No.		CS1914	CS1912	CS782DP	CS1844	CS1842	CS1824	CS1822
Ports		4	2	2	4	2	4	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	USB	USB	USB
	Video	DisplayPort	DisplayPort	DisplayPort	HDMI	HDMI	HDMI	HDMI
Platform Support		Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac	Windows, Linux, Mac
USB Hub Built-in		• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	N/A	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)	• (USB 3.1 Gen 1)
Audio		• (Speaker)	• (Speaker)	• (Speaker)	•	•	• (Speaker)	• (Speaker)
Independent Switching		•	•	•	•	•	•	•
Video DynaSync™		N/A	N/A	N/A	•	•	•	•
Dual Display		N/A	N/A	N/A	•	•	N/A	N/A
Port Selection		Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse	Hotkey, Mouse, Remote Port Selector	Hotkey, Pushbutton, Mouse, RS-232 commands, Remote Port Selector	Hotkey, Pushbutton, Mouse, RS-232 commands, Remote Port Selector	Hotkey, Pushbutton, Mouse, RS-232 commands	Hotkey, Pushbutton, Mouse, RS-232 commands

Model No.		CS1794	CS1792	CS1644A	CS1642A	CS1784A	CS1782A
Ports		4	2	4	2	4	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	USB	USB
	Video	HDMI	HDMI	DVI (Dual Link) Windows, Linux, Mac, Sun	DVI (Dual Link) Windows, Linux, Mac, Sun	DVI (Dual Link) Windows, Linux, Mac, Sun	DVI (Dual Link) Windows, Linux, Mac, Sun
Platform Support		Windows, Linux, Mac	Windows, Linux, Mac	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
USB Hub Built-in		•	•	•	•	•	•
Audio		•	•	•	•	•	• (7.1)
Independent Switching		•	•	•	•	•	•
Video DynaSync™		•	•	•	•	•	•
Dual Display		N/A	N/A	•	•	N/A	N/A
Port Selection		Hotkey, Pushbutton	Hotkey, Pushbutton	Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse

Model No.		CS1764A	CS1762A	CS1744	CS1742	CS1734B	CS1732B
Ports		4	2	4	2	4	2
Interface	Keyboard, Mouse	USB	USB	USB	USB	PS/2, USB	PS/2, USB
	Video	DVI	DVI	VGA (SPHD)	VGA (SPHD)	VGA (SPHD)	VGA (SPHD)
Platform Support		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
USB Hub Built-in		•	•	•	•	•	•
Audio		•	•	•	•	•	•
Independent Switching		•	•	•	•	•	•
Video DynaSync™		•	•	N/A	N/A	•	•
Dual Display		N/A	N/A	•	•	N/A	N/A
Port Selection		Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton	Hotkey, Pushbutton	Hotkey, Pushbutton, OSD, Mouse	Hotkey, Pushbutton, OSD, Mouse

Model No.		CS84U	CS82U	CS74U	CS72U	CS84A	CS82A	CS74E
Ports		4	2	4	2	4	2	4
Interface	Keyboard, Mouse	PS/2, USB	PS/2, USB	USB	USB	PS/2	PS/2	PS/2
	Video	VGA (SPHD)	VGA (SPHD)	VGA (SPHD)	VGA (SPHD)	VGA	VGA	VGA (SPHD)
Platform Support		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux	Windows, Linux	Windows, Linux
USB Hub Built-in		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Audio		N/A	N/A	•	•	N/A	N/A	N/A
Independent Switching		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Video DynaSync™		•	•	N/A	N/A	N/A	N/A	N/A
Dual Display		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port Selection		Hotkey, Pushbutton, Mouse	Hotkey, Pushbutton, Mouse	Pushbutton	Pushbutton	Hotkey, Pushbutton	Hotkey, Pushbutton	Hotkey, Pushbutton

CM1284

4-Port USB 4K HDMI Multi-View KVM[™] Switch



Front



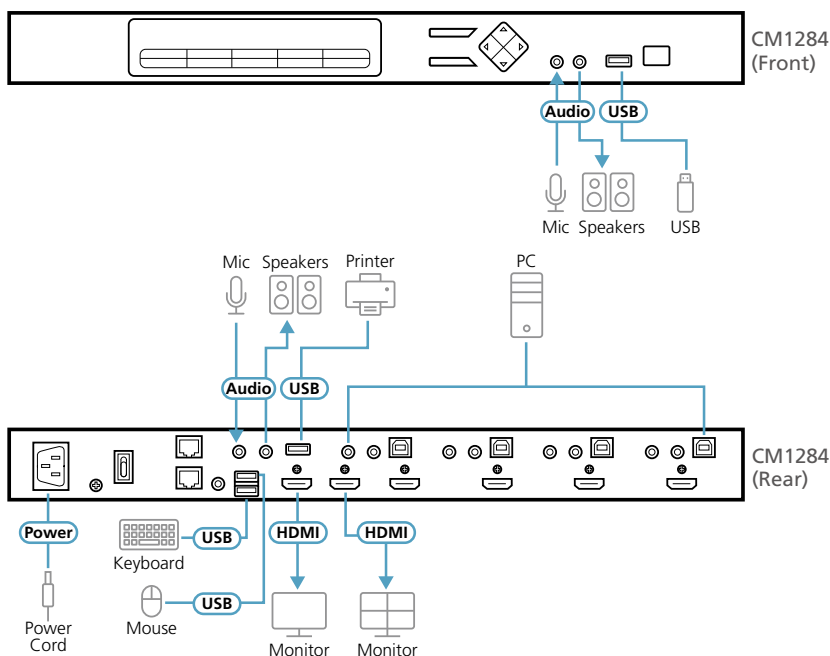
Rear

Features

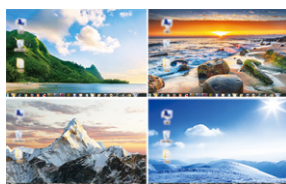
- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- Features dual output on console side – a multi-view output and a full screen output
- Easily resizes and / or reposition any PiP or PbP to suit users' viewing needs
- System configuration via front panel pushbutton, OSD, IR Remote Control, and RS-232 commands – display mode and port selection
- Supports superior video quality – up to 4K (4096 x 2160 @ 30 Hz); YCbCr 4:2:2
- Drop down menu – edits display windows and other functions with the mouse and on-screen control panel
- Computer selection via front panel pushbutton, hotkey, mouse¹, and the serial commands
- **Boundless Switching** – simply moves the mouse cursor across windows to switch to other video sources even among the daisy chained installation
- **Boundless Switching Focus** – a window frame to indicate which computer that it currently has the focus
- **Video DynaSync[™]** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- **EDID Expert[™]** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- DCC (Daisy Chain Control) – controls up to 3 additional CM1284 units from a single console
- Cascade up to 2 levels – controls up to 16 computers (with up to 4 x 4 Multi-view mode)
- HDCP 1.4 compliant
- Console keyboard emulation / bypass feature
- Console mouse port emulation / bypass feature
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Firmware upgradable via computer's USB port

Note: 1. Mouse port switching is only workable under mouse emulation mode and is for 3-key USB wheel mouse only.

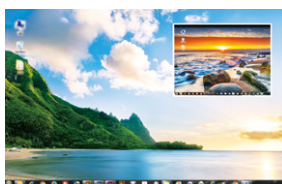
Setup > CM1284



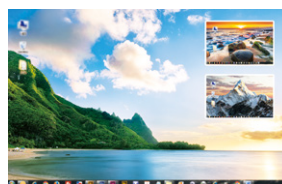
- ▶ **Quad View** displays all four computers / video sources on the display



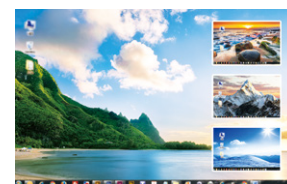
- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port.

Specifications

CM1284	
Computer Connections	4
Port Selection	Pushbutton, Hotkey, IR Remote Control, On-Screen Display (OSD), Mouse Wheel, Mouse Cursor, RS-232 Commands
Connectors	
Console Ports	2 x USB Type A Female 2 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear) 2 x RJ-45
KVM (Computer) Ports	4 x USB Type B Female (White) 4 x HDMI Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x IEC320 Jack
USB Hub	2 x USB 2.0 Type A Female (1 x front, 1 x rear)
Switches	
Selected	11 x Pushbuttons
Emulation	
Keyboard / Mouse	USB
Video	4096 x 2160 @ 30Hz
LEDs	
KVM	4 (Orange)
Audio	4 (Green)
USB	4 (Green)
Maximum Input Power Rating	100-240V AC; 50-60Hz; 1A
Power Consumption	AC110V: 16.0W / AC220V: 14.8W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-10 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	2.46 kg (5.42 lb)
Dimensions (L x W x H)	43.72 x 16.40 x 4.40 cm (17.21 x 6.46 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	4x USB HDMI KVM Cables; 1x Power Cord; 1x IR Remote Control; 1x Rack Mount Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cables	2L-7D02UH (1.8 m)	17-11
IR Extender Cable	2XRT-0003G	17-12

CM1164A

4-Port USB DVI Multi-View KVM[™] Switch



Front



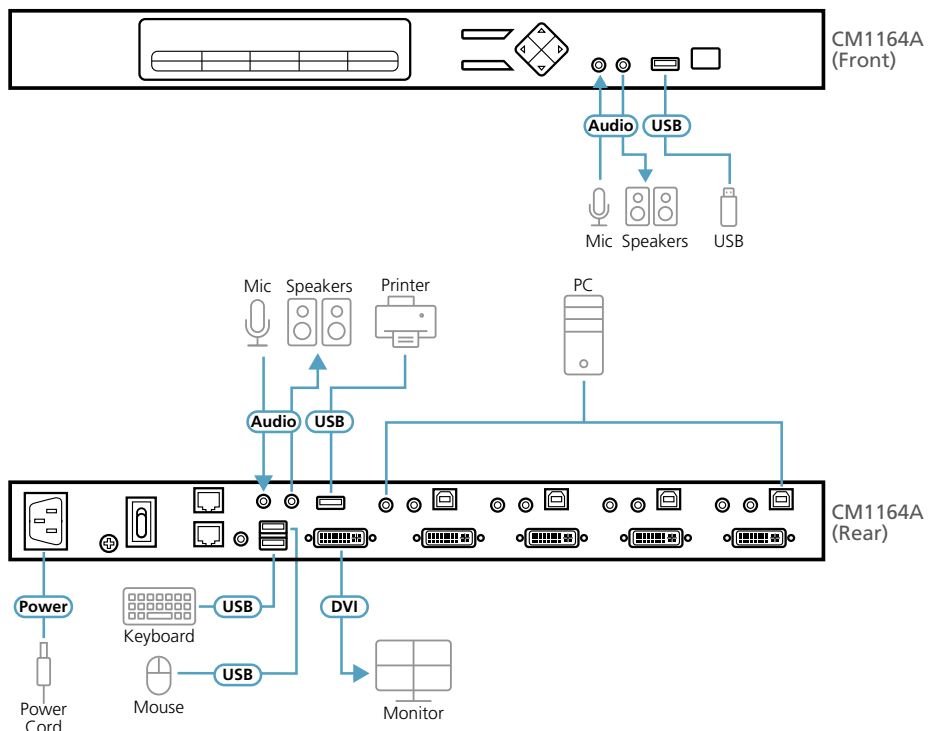
Rear



Features

- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- System configuration via front panel pushbutton, OSD, IR Remote Control, and RS-232 commands – display mode and port selection
- Supports superior video quality – up to 1920 x 1200; YCbCr 4:2:2
- Easily resize and / or reposition any PiP or PbP to suit users' viewing needs
- DCC (Daisy Chain Control) – controls up to 3 additional CM1164A units from a single console
- Cascade up to 2 levels – controls up to 16 computers (with up to 4 x 4 Multi-view mode)
- **Boundless Switching** – simply moves the mouse cursor across windows to switch to other video sources even among the daisy chained installation
- Boundless Switching Focus – a window frame to indicate which computer that it currently has the focus
- **Video DynaSync[™]** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- HDCP 1.4 compliant
- Supports RS-232 commands
- Drop down menu – edits display windows and other functions with the mouse and on-screen control panel
- Console mouse port emulation / bypass feature that supports most mouse drivers and multifunction mice
- Console keyboard emulation / bypass feature that supports most multimedia keyboards
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Auto Scan feature
- Power on detection
- Full bass response provides a rich experience for 2.1 channel audio

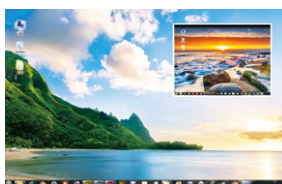
Setup > CM1164A



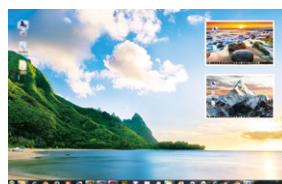
- **Quad View** displays all four computers / video sources on the display



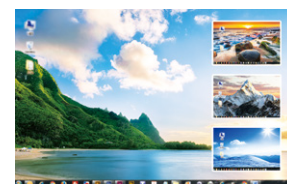
- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port.

Specifications

	CM1164A
Computer Connections	4
Port Selection	Pushbutton, Hotkey, IR Remote Control, On-Screen Display (OSD), Mouse Wheel, Mouse Cursor, RS-232 Commands
Connectors	
Console Ports	2 x USB Type A Female 1 x Single Link DVI-D Female (White) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear) 2 x RJ-45
KVM Ports	4 x USB Type B Female 4 x Single Link DVI-D Female (White) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x IEC320 Jack
USB Hub	2 x USB 2.0 Type A Female
Emulation	
Keyboard / Mouse	USB
Switches	
Selected	11 x Pushbuttons
Video	1920 x 1200 @ 60Hz (DVI-D)
LEDs	
KVM	4 (Orange)
Audio	4 (Green)
USB	4 (Green)
Power Consumption	AC110V: 9.7W / AC220V: 9.5W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-10 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	2.46 kg (5.42 lb)
Dimensions (L x W x H)	43.72 x 16.40 x 4.40 cm (17.21 x 6.46 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	4x KVM Cables (DVI-D, USB, Audio); 1x Power Cord; 1x IR Remote Control; 1x Rack Mount Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
IR Extender Cable	2XRT-0003G	17-12

CM1942

2-Port USB 4K DisplayPort Dual Display Mini-Matrix Boundless KVM Switch



Front



Rear



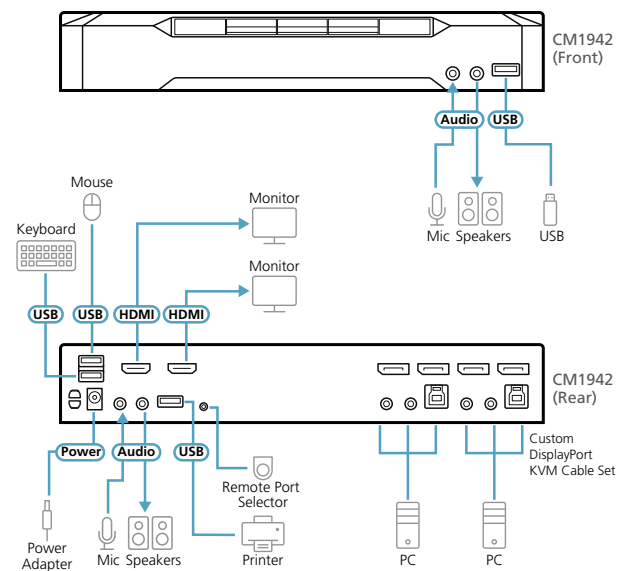
Features

- One dual-view USB console controls two DisplayPort computers and two additional USB peripheral devices
- Video DynaSync™ – exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching between ports
- Boundless Switching – simply moves the mouse cursor across windows to switch to other video sources
- Supports superior video quality – resolution up to 4K DCI (4096 x 2160 @ 60 Hz)
- Two PC Operation Modes: Single PC Mode and Dual PC Mode Single PC Mode - Operate with one PC, and view the content of the same PC at a time. Dual PC Mode - Operate with the first PC, and view the content of the second PCs at a time
- Audio Mixer Mode – mixes up to two audio sources as audio output
- DisplayPort 1.2, HDMI and HDCP compliant
- Supports USB3.1 Gen1 specification
- Power on detection
- Console mouse port emulation / bypass feature that supports most mouse drivers and multifunction mice
- Console keyboard emulation / bypass feature that support most multimedia keyboards
- Multilingual keyboard mapping – supports English, French, Japanese, and German keyboards

Specifications

	CM1942
Computer Connections	2
Port Selection	Hotkey, Pushbutton, Mouse Wheel, Mouse Cursor, Remote Port Selector
Connectors	
Console Ports	2 x USB Type A Female; 2 x HDMI Female (Black) 2 x 3.5 mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5 mm Audio Jack Female (Pink; 1 x front, 1 x rear)
KVM (Computer) Ports	2 x USB3.1 Gen1 Type B Female (Blue) 4 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)
Remote Port Selector	1 x 2.5mm Audio Jack Female
Power	1 x DC Jack
USB Hub	2 x USB3.1 Gen1 Type A Female (Blue; 1 x front; 1 x rear)
Switches	
Selected	3 x Pushbutton
LEDs	
Audio	2 (Green)
KVM	2 (Orange)
USB	2 (Green)
Mode of Operation	2 (Orange)
Emulation	
Keyboard / Mouse	USB
Video	4096 x 2160 @ 60Hz
Scan Interval	1-99 Seconds (Default: 5 sec.)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Included Accessories	4x DisplayPort 1.2 Cables; 2x USB 3.0 Cables; 4x Audio Cables; 1x Remote Port Selector; 1x Power Adapter

Setup > CM1942



CS724KM

4-Port USB Boundless KM Switch



Boundless Switching



Easy to Config
Hotkey & Utility



Daisy-Chain



RS-232 Serial Commands



Audio Speaker



Cables Included



Bus-Powered



Front



Rear



Features

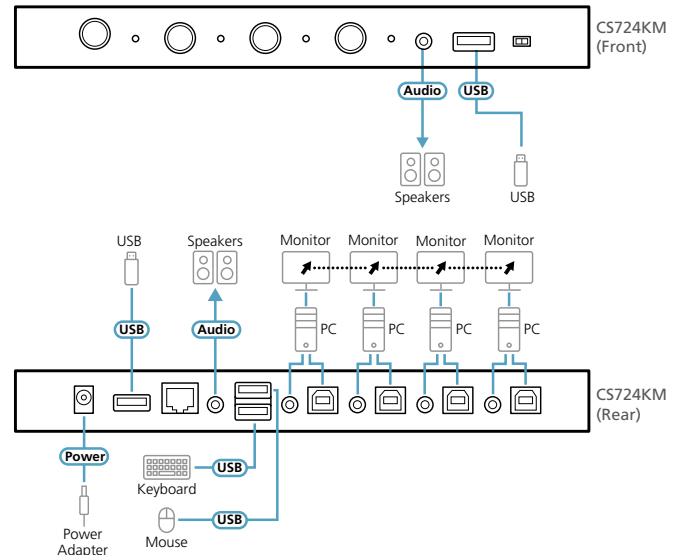
- Single USB keyboard and mouse control up to 4 computers
- **Boundless Switching** - allows users to switch between computers when the mouse cursor crosses the display border
- **Extended Desktops Boundless Switching** up to 16 monitors¹
- Daisy-Chain two units to control 8 computers with a single keyboard and mouse
- No software required¹
- Computer selection via pushbutton, hotkey, mouse cursor, mouse wheel² and RS-232 commands
- Supports RS-232 serial commands
- Supports Windows and Linux³
- Bus-powered – no external power adapter required⁴

Note: 1. For extended desktops boundless switching, it is required to upgrade the CS724KM firmware, the Boundless Switching Configuration Utility, and the Driver AP software.
2. Mouse port switching is only supported under mouse emulation mode and by USB 3-key wheel mice.
3. It is required to upgrade CS724KM firmware and the Driver AP software to work on a Linux operating system. Please refer to the user manual for software and firmware versions.
4. If power supply from the connected computers is insufficient, the device may need to connect to an external power adapter.

Specifications

	CS724KM
Computer Connections	4
Port Selection	Hotkey, Pushbutton, Mouse Wheel, Mouse Cursor, RS-232 Commands
Connectors	
Console Ports	2 x USB Type A Female 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 1 x RJ-45
KVM (Computer) Ports	4 x USB Type B Female 4 x 3.5mm Audio Jack Female (Green)
Power	1 x DC Jack
USB Hub	2 x USB 2.0 Type A Female (1 x front, 1 x rear)
LEDs	
Selected	4 (Green)
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC5V: 1.69W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal + Plastic
Weight	0.50 kg (1.1 lb)
Dimensions (L x W x H)	20.00 x 8.06 x 2.50 cm (7.87 x 3.17 x 0.98 in.)
Carton Lot	5 pcs
Included Accessories	4x USB Cables; 4x Audio Cables

Setup > CS724KM



CS1953

3-Port USB-C DisplayPort Hybrid KVM^P™ Switch



Front



Rear



Features

- One USB keyboard, mouse and one DisplayPort monitor control two DisplayPort computers, one USB-C device and share two USB peripherals
- Fully compliant with USB-C specification – transfers video, audio, and data via one USB channel
- Provides USB Power Delivery 3.0 for USB-C device charging up to 45W¹
- Supports superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Build-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- Supports DisplayPort Alternate Mode (DP Alt Mode) which enables the USB connection to carry DisplayPort signals
- Computer selection via front panel pushbuttons, hotkeys, mouse², and remote port selector
- DisplayPort 1.2 compliant; HDCP 1.4 compliant
- Supports HD Audio³
- Firmware upgradable
- Bus-Powered

Note: 1. The power adapter is needed with the CS1953 for USB-C device charging to work.
2. Mouse port switching is only supported under mouse emulation mode and by USB 3-key wheel mice.
3. HD audio through DisplayPort cannot be switched independently.

Specifications

	CS1953
Computer Connections	3
Port Selection	Hotkey, Pushbutton, Mouse, Remote Port Selector
Connectors	
Console Ports	2 x USB Type A Female; 1 x DisplayPort Female (Black); 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)
KVM (Computer) Ports	CPU1 and CPU2: 2 x USB 3.1 Gen 1 Type B Female (Blue); 2 x DisplayPort Female (Black); 2 x 3.5mm Audio Jack Female (Green) CPU3: 1 x USB Type-C Female (Black); 1 x 3.5mm Audio Jack Female (Green)
Remote Port Selector	1 x 2.5mm Audio Jack Female (Black)
Power	1 x DC Jack
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)
LEDs	
KVM	3 (Orange)
Audio	3 (Green)
USB	3 (Green)
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC12V: 5.78W
Video	4096 x 2160 @ 60Hz
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal + Plastic
Weight	0.50 kg (1.1 lb)
Dimensions (L x W x H)	20.63 x 7.54 x 4.40 cm (8.12 x 2.97 x 1.73 in.)
Carton Lot	5 pcs
Included Accessories	1x USB Type-C Cable; 3x Audio Cables; 2x DisplayPort 1.2 Cables; 2x USB 3.0 Type-A to Type-B Cables; 1x Remote Port Selector; 1x Power Adapter*

Note: *The CS1953 is provided in two packages; one package contains a power adapter, the other does not.

CS1964

4-Port USB 3.0 4K DisplayPort Triple Display KVM[™] Switch



Features

- One USB keyboard / mouse and three HDMI monitors control four DisplayPort computers
- **Video DynaSync[™]** – exclusive ATEN technology that optimizes display resolution, speeds up switching between systems, and ensures that windows opened on an extended desktop will not revert to their default configurations on the main display when switching between ports
- **Supports Six Display by connecting two Triple Display KVM switches**
- Supports superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- Computer selection via front panel pushbuttons, hotkeys, mouse¹, and RS-232 commands²
- DisplayPort 1.2 compliant; HDMI compliant; HDCP 2.2 compliant
- Independent switching of KVM, USB peripheral, and audio focus
- Firmware upgradable
- Supports N-key Rollover³ (NKRO) – permits collision-free keying, a great advantage for gaming

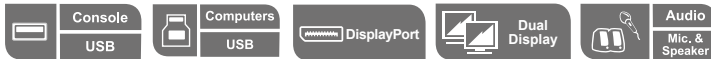
Note: 1. Mouse port switching is only supported under mouse emulation mode and by USB 3-key wheel mice.
 2. Slide the DCC switch to the s position to allow the KVM switch to receive RS-232 commands via an RJ-45-to-DB9 cable.
 3. N-key Rollover supports up to 15 simultaneous keystrokes.

Specifications

	CS1964
Computer Connections	4
Port Selection	Hotkey, Pushbutton, Mouse, RS-232 Commands
Connectors	
Console Ports	2 x USB Type A Female 3 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)
KVM (Computer) Ports	4 x USB 3.1 Gen 1 Type B Female (Blue) 12 x DisplayPort Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Daisy Chain Ports	1 x RJ-45 Female
Power	1 x DC Jack
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)
Emulation	
Keyboard / Mouse	USB
Video	4096 x 2160 @ 60Hz
Power Consumption	DC12V: 15.49W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	1.93 kg (4.25 lb)
Dimensions (L x W x H)	33.50 x 15.60 x 6.55 cm (13.19 x 6.14 x 2.58 in.)
Carton Lot	3 pcs
Included Accessories	6x DisplayPort 1.2 Cables; 2x USB 3.0 Cables; 4x Audio Cables; 1x Power Adapter Note: The included cable sets are for two computer port connection only. Optional cable sets (2L-7D02UDPX6) are available with a separate purchase for the remaining computer port connection.

CS1942DP / CS1944DP

2/4-Port USB 3.0 4K DisplayPort Dual Display KVM™ Switch



Front

• CS1942DP



• CS1944DP



Rear

• CS1942DP



• CS1944DP



Features

- One USB keyboard and mouse control two/four DisplayPort computers and share two USB peripherals
- [Supports Quad Display by connecting two Dual Display KVM switches](#)
- Supports superior video quality – up to 4K (4096 x 2160 / 3840 x 2160 @ 60Hz)
- Computer Selection via front panel pushbuttons, hotkeys, mouse, and RS-232 commands
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- Supports DisplayPort Dual-Mode technology (DP++)¹
- Supports Console keyboard emulation/bypass feature
- Supports Console mouse emulation/bypass feature
- Independent switching of KVM, USB peripheral, and audio focus
- DisplayPort 1.2 compliant; HDCP compliant
- Supports HD audio²
- Power on detection
- Firmware upgradable

Note: 1. DisplayPort Dual – Mode technology (DP++) does not require an active adapter for most single display setups. Active DisplayPort adapters are recommended if you are unsure of the video source's DP++ compatibility.
2. HD audio through DisplayPort cannot be switched independently.

Specifications

	CS1942DP	CS1944DP
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse, RS-232 Commands	
Connectors		
Console Ports	2 x USB Type A Female 2 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)	
KVM (Computer) Ports	2 x USB 3.1 Gen 1 Type B Female (Blue) 4 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB 3.1 Gen 1 Type B Female (Blue) 8 x DisplayPort Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Daisy Chain Ports	1 x RJ-45 Female	
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	4096 x 2160 @ 60Hz	
Power Consumption	DC 12V: 3.48W	DC 12V: 6.125W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	1.54 kg (3.39 lb)	1.51 kg (3.33 lb)
Dimensions (L x W x H)	33.50 x 15.66 x 4.40 cm (13.19 x 6.17 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	4x DisplayPort 1.2 Cables; 2x USB 3.0 Cables; 4x Audio Cables; 1x Power Adapter	8x DisplayPort 1.2 Cables; 4x USB 3.0 Cables; 8x Audio Cables; 1x Power Adapter

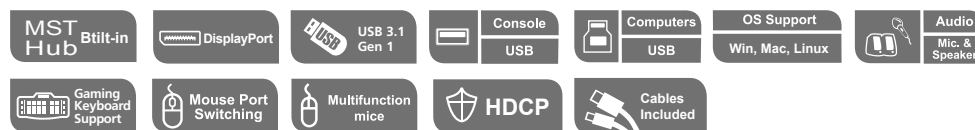
Optional Accessories

Type	Part No. / Spec.
DisplayPort to VGA Adapter*	VC925
DisplayPort to HDMI Adapter*	VC985
DisplayPort to 4K HDMI Active Adapter*	VC986

Note: * For more information about the VC925, VC985, and VC986, please refer to the VanCryst product catalog.

CS1922M / CS1924M

2/4-Port USB 3.0 4K DisplayPort MST KVM[™] Switch



Front

- CS1922M



- CS1924M



Rear

- CS1922M



- CS1924M



Features

- One USB keyboard/mouse and DisplayPort or HDMI monitor control 2/4 computers and share 2 USB peripherals
- Built-in Multi-Stream Transport (MST) hub allows dual displays (DisplayPort / HDMI) from a single DisplayPort source¹
- Supports MST Mode, Splitter Mode, and Single Port Mode
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- DisplayPort Dual-Mode (DP++) technology supports HDMI and DVI signals via a DisplayPort-to-HDMI/DVI DP++ adapter²
- Superior video quality – 4K UHD (3840 x 2160 @ 60Hz) and 4K DCI (4096 x 2160 @ 60Hz)
- DisplayPort 1.2 compliant, HDCP 1.3 compliant
- Supports HD audio through DisplayPort³
- Computer selection via front panel pushbuttons, hotkeys, mouse⁴, and RS-232 commands
- Independent switching of KVM, USB peripheral, and audio focus
- Power On Detection
- Firmware upgradable

Note: 1. The PC source must be DisplayPort 1.2 compliant.

2. DisplayPort Dual-Mode technology (DP++) does not require an active adapter for most single display setups. Active DisplayPort adapters are recommended if you are unsure of the video source's DP++ compatibility.

3. HD audio through DisplayPort cannot be switched independently.

4. Mouse port switching is only supported under mouse emulation mode with a USB 3-button mouse wheel.

Specifications

	CS1922M	CS1924M
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse, RS-232 Commands	
Connectors		
Console Ports	2 x USB Type A Female 1 x DisplayPort Female (Black) 1 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear) 1 x RJ-11 Female	
KVM (Computer) Ports	2 x USB 3.1 Gen 1 Type B Female (Blue) 2 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB 3.1 Gen 1 Type B Female (Blue) 4 x DisplayPort Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	4096 x 2160 @ 60Hz	
Power Consumption	DC5V: 4.09W	DC5V: 4.89W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	0.73 kg (1.61 lb)	0.92 kg (2.03 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	
Included Accessories	2x DisplayPort 1.2 Cables; 2x USB 3.0 Cables; 4x Audio Cables; 1x Power Adapter	4x DisplayPort 1.2 Cables; 4x USB 3.0 Cables; 8x Audio Cables; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.
DisplayPort to VGA Adapter*	VC925
DisplayPort to DVI Adapter*	VC965
DisplayPort to HDMI Adapter*	VC985
DisplayPort to 4K HDMI Active Adapter*	VC986

Note: * For more information about the VC925, VC965, VC985, and VC986, please refer to the VanCryst product catalog.

CS1922 / CS1924

2/4-Port USB 3.0 4K DisplayPort KVM[™] Switch



Front

- CS1922



- CS1924



Rear

- CS1922



- CS1924



Features

- 2/4-port DisplayPort KVM Switch with USB 3.1 Gen 1 hub and 2.1 surround sound audio
- One USB console controls two/four computers and two USB peripherals
- Computer selection via front panel pushbuttons, hotkeys and mouse¹
- Superior video quality – 4K UHD (3840 x 2160 @ 60Hz) and 4K DCI (4096 x 2160 @ 60Hz)
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- DisplayPort 1.2 compliant; HDCP compliant
- Supports HD audio through DisplayPort²
- Independent switching of KVM, USB peripheral, and audio focus
- Power On Detection
- Supports Multi-Stream Transport (MST) allows multiple monitors through a single DisplayPort connector
- DisplayPort Dual-Mode technology (DP++) supports HDMI and DVI signals via a DisplayPort-to-HDMI/DVI DP++ adapter³
- Firmware upgradable

Note: 1. Mouse port switching is only supported under mouse emulation mode with a USB 3-button mouse wheel.
2. HD audio through DisplayPort cannot be switched independently.
3. DisplayPort Dual-Mode technology (DP++) does not require an active adapter for most single display setups. Active DisplayPort adapters are recommended if you are unsure of the video source's DP++ compatibility.

Specifications

	CS1922	CS1924
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse	
Connectors		
Console Ports	2 x USB Type A Female (Black) 1 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)	
KVM (Computer) Ports	2 x USB 3.1 Gen 1 Type B Female (Blue) 2 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB 3.1 Gen 1 Type B Female (Blue) 4 x DisplayPort Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	4096 x 2160 @ 60Hz	
Power Consumption	DC5V: 2.00W	DC5V: 2.99W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	0.73 kg (1.61 lb)	0.91 kg (2 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	
Included Accessories	2x DisplayPort 1.2 Cables; 2x USB 3.0 Cables; 4x Audio Cables; 1x Power Adapter	4x DisplayPort 1.2 Cables; 4x USB 3.0 Cables; 8x Audio Cables; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.
DisplayPort to VGA Adapter*	VC925
DisplayPort to DVI Adapter*	VC965
DisplayPort to HDMI Adapter*	VC985
DisplayPort to 4K HDMI Active Adapter*	VC986

Note: * For more information about the VC925, VC965, VC985, and VC986, please refer to the VanCryst product catalog.

CS1912 / CS1914

2/4-Port USB 3.0 DisplayPort KVM[™] Switch



Front

- CS1912



- CS1914



Rear

- CS1912



- CS1914



Features

- One USB console controls two/four computers and two USB peripherals
- Computer selection via front panel pushbuttons, hotkeys and mouse¹
- Superior video quality – up to 4K (3840 x 2160 @ 30Hz)
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- DisplayPort 1.1 compliant; HDCP compliant
- Supports HD audio through DisplayPort²
- Full bass response for high-quality 2.1 channel surround sound systems
- Power On Detection
- DisplayPort Dual-Mode technology (DP++) supports HDMI and DVI signals via a DisplayPort-to-HDMI/DVI DP++ adapter³
- Mouse emulation/bypass feature supports most mouse drivers and multifunction mice
- Keyboard emulation/bypass feature supports most gaming keyboards

Note: 1. Mouse port switching is only supported under mouse emulation mode with a USB 3-button mouse wheel.
2. HD audio through DisplayPort cannot be switched independently.
3. DisplayPort Dual-Mode technology (DP++) does not require an active adapter for most single display setups. Active DisplayPort adapters are recommended if you are unsure of the video source's DP++ compatibility.

Specifications

	CS1912	CS1914
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse	
Connectors		
Console Ports	2 x USB Type A Female (Black) 1 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)	
KVM (Computer) Ports	2 x USB 3.1 Gen 1 Type B Female (Blue) 2 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green)	4 x USB 3.1 Gen 1 Type B Female (Blue) 4 x DisplayPort Female (Black) 4 x 3.5mm Audio Jack Female (Green)
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	3840 x 2160 @ 30Hz	
Power Consumption	DC5V: 2.00W	DC5V: 2.99W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	0.73 kg (1.61 lb)	0.91 kg (2 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x DisplayPort Cables; 2x USB 3.0 Cables; 2x Audio Cables; 1x Power Adapter	4x DisplayPort Cables; 4x USB 3.0 Cables; 4x Audio Cables; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.
DisplayPort to VGA Adapter*	VC925
DisplayPort to DVI Adapter*	VC965
DisplayPort to HDMI Adapter*	VC985
DisplayPort to 4K HDMI Active Adapter*	VC986

Note: * For more information about the VC925, VC965, VC985, and VC986, please refer to the VanCryst product catalog.

CS782DP

2-Port USB DisplayPort/Audio KVM Switch (4K Supported)



Features

- One DisplayPort video console controls two USB computers
- Supports superior video quality – 4K UHD (3840 x 2160 @ 60Hz) and 4K DCI (4096 x 2160 @ 60Hz)
- Computer selection via remote port selector, hotkeys, and USB mouse¹
- Supports MST (Multi-Stream Transport), enabling multiple monitors to be used via a single DisplayPort connector²
- DisplayPort 1.2 compliant; HDCP compliant
- Supports HD Audio through DisplayPort playback³
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- USB 2.0 mouse port can be used for USB hub and USB peripheral sharing⁴
- Bus powered – no external power adapter required

Note: 1. Mouse port switching is only supported under mouse emulation mode and by USB 3-key wheel mice.

2. MST (Multi-Stream Transport) requires either monitors that are capable of DisplayPort 1.2 daisy-chaining, or use of a powered DisplayPort MST Hub. A DisplayPort v1.1a display can be the last display in a DisplayPort v1.2 chain. The PC source must be DisplayPort 1.2 compliant

3. HD audio through DisplayPort interface cannot be switched independently.

4. This feature may require an extra power adapter to be connected to the USB hub and the CS782DP's Mouse Emulation Mode should be disabled.

Specifications

	CS782DP
Computer Connections	2
Port Selection	Hotkey, Mouse, Remote Port Selector
Connectors	
Console Ports	2 x USB Type A Female 1 x DisplayPort Female (Black) 1 x 3.5mm Audio Jack Female (Green)
KVM (Computer) Ports	2 x USB Type B Female 2 x DisplayPort Female (Black) 2 x 3.5mm Audio Jack Female (Green)
Remote Port Selector	1 x 2.5mm Audio Jack Female
Emulation	
Keyboard / Mouse	USB
Video	4096 x 2160 @ 60Hz
LEDs	
KVM	2 (White)
Power Consumption	DC5V: 2.18W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.12 kg (0.26 lb)
Dimensions (L x W x H)	9.37 x 9.30 x 2.68 cm (3.69 x 3.66 x 1.06 in.)
Carton Lot	10 pcs
Included Accessories	2x DisplayPort 1.2 Cables; 2x USB Cables; 2x Audio Cables; 1x Remote Port Selector

CS1842 / CS1844

2/4-Port USB 3.0 4K HDMI Dual Display KVM™ Switch



Front

- CS1842



- CS1844



Rear

- CS1842



- CS1844



Features

- One USB keyboard, mouse and two HDMI monitors control two/four HDMI computers and share two USB peripherals
- Supports Quad Display by connecting two Dual Display KVM switches
- Supports superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Computer selection via front panel pushbuttons, hotkeys, mouse¹, RS-232 commands, and remote port selector
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- Video DynaSync™** – exclusive ATEN technology that optimizes display resolution, speeds up switching between systems, and ensures that windows opened on an extended desktop will not revert to their default configurations on the main display when switching between ports
- Supports console keyboard /mouse emulation/bypass feature
- Auto Scan Mode for monitoring all computers
- HDMI compliant; HDCP 2.2 compliant
- Supports HD Audio²
- Firmware upgradable

Note: 1. Mouse port switching is only supported under mouse emulation mode and by USB 3-key wheel mice.
2. HD audio through HDMI cannot be switched independently.

Specifications

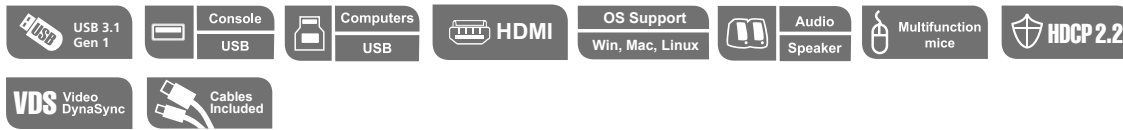
	CS1842	CS1844
Computer Connections	2	4
Port Selection	Pushbutton, Hotkey, RS-232 Commands, Mouse, Remote Port Selector	
Connectors		
Console Ports	2 x USB Type A Female (Black); 2 x HDMI Female (Black); 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear); 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)	
KVM (Computer) Ports	2 x USB 3.1 Gen1 Type B Female (Blue) 4 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB 3.1 Gen1 Type B Female (Blue) 8 x HDMI Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Daisy Chain Ports	1 x RJ-45 Female	
Remote Port Selector	1 x 2.5mm Audio Jack Female	
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen1 Type A Female (Blue; 1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	4096 x 2160 @ 60Hz	
Power Consumption	DC12V: 3.17W	DC12V: 4.42W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	1.60 kg (3.52 lb)	1.57 kg (3.46 lb)
Dimensions (L x W x H)	33.50 x 16.05 x 4.40 cm (13.19 x 6.32 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	4 x HDMI Cables; 2 x USB 3.0 Cables; 4 x Audio Cables; 1 x Power Adapter; 1 x Remote Port Selector	8 x HDMI Cables; 4 x USB 3.0 Cables; 8 x Audio Cables; 1 x Power Adapter; 1 x Remote Port Selector

Optional Accessories

Type	Part No. / Spec.	Page No.
HDMI Cables	2L-7D01H (1 m), 2L-7D02H-1 (2 m), 2L-7D03H (3 m), 2L-7D05H (5 m), 2L-7D05H-1 (5 m), 2L-7D10H (10 m), 2L-7D15H (15 m), 2L-7D20H (20 m)	17-10
USB HDMI KVM Cables	2L-7D02UH (1.8 m)	17-11

CS1822 / CS1824

2/4-Port USB 3.0 4K HDMI KVMP™ Switch with Audio Mixer Mode



Front

• CS1822



• CS1824



Rear

• CS1822



• CS1824



Features

- One USB keyboard/mouse and one HDMI monitor control two/four computers and share two USB peripherals
- **Audio Mixer Modes** – mixes up to two audio sources as audio output
- Supports superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- **Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Computer selection via front panel pushbuttons, hotkeys, mouse¹, and RS-232 commands
- HDMI compliant; HDCP 2.2 compliant
- Auto Scan Mode for monitoring all
- Supports HD Audio²
- Multilingual keyboard mapping – supports English, French, Japanese, and German keyboards
- Firmware upgradable

Note: 1. Mouse port switching is only supported under mouse emulation mode and by USB 3-key wheel mice.
2. HD audio through HDMI cannot be switched independently.

Specifications

	CS1822	CS1824
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse, RS-232 Commands	
Connectors		
Console Ports	2 x USB Type A Female; 1 x HDMI Female (Black); 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)	
KVM (Computer) Ports	2 x USB 3.1 Gen 1 Type B Female (Blue) 2 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green)	4 x USB 3.1 Gen 1 Type B Female (Blue) 4 x HDMI Female (Black) 4 x 3.5mm Audio Jack Female (Green)
Serial	1 x RJ-11 Female	
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen 1 Type A Female (Blue; 1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	4096 x 2160 @ 60Hz	
Power Consumption	DC5V: 1.78W	DC5V: 2.535W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	0.74 kg (1.63 lb)	0.94 kg (2.07 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	
Included Accessories	2x HDMI Cables; 2x USB 3.0 Cables; 2x Audio Cables; 1x Power Adapter	4x HDMI Cables; 4x USB 3.0 Cables; 4x Audio Cables; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.	Page No.
HDMI Cables	2L-7D01H (1 m), 2L-7D02H-1 (2 m), 2L-7D03H (3 m), 2L-7D05H (5 m), 2L-7D05H-1 (5 m)	17-10

CS1792 / CS1794

2/4-Port USB HDMI/Audio KVM[™] Switch



Front

• CS1792



• CS1794



Rear

• CS1792



• CS1794



Features

- One USB console controls two/four USB HDMI computers
- PC selection via pushbutton and hotkeys
- Dolby True HD and DTS HD Master Audio support¹
- [Video DynaSync[™]](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- HDCP compliant
- Audio enabled – full bass response provides a rich experience for 2.1 channel surround sound systems
- Superior video quality – supports 480i, 480p, 720p, 1080i and 1080p (HDTV) / 1920 x 1200 (DVI)
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Power on detection
- Supports keyboard combinations via emulation (for Mac)²

Note: 1. HD audio through HDMI cannot be switched independently.

2. PC keyboard combinations emulate Mac keyboards.
Mac keyboards work only with their own computers.

Specifications

	CS1792	CS1794
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton	
Connectors		
Console Ports	2 x USB Type A Female (rear panel); 1 x HDMI Female (Black); 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear); 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)	
KVM Ports	2 x USB Type B Female 2 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB Type B Female 4 x HDMI Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Firmware Upgrade	1 x 3.5mm Audio Jack Female (Black)	
Power	1 x DC Jack	
USB Hub	2 x USB Type A Female (1 x front; 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	1920 x 1080 @ 60Hz / 1920 x 1200 @ 60Hz	
LEDs		
Audio	3 (Green)	5 (Green)
KVM	3 (Orange)	5 (Orange)
USB	3 (Green)	5 (Green)
Power Consumption	DC5.3V: 3.53W	DC5.3V: 3.62W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	0.42 kg (0.93 lb)	0.53 kg (1.17 lb)
Dimensions (L x W x H)	20.63 x 7.24 x 4.40 cm (8.12 x 2.85 x 1.73 in.)	26.23 x 7.68 x 4.40 cm (10.33 x 3.02 x 1.73 in.)
Carton Lot	5 pcs	
Included Accessories	2x USB HDMI KVM Cables; 1x Firmware Upgrade Cable; 1x Power Adapter	4x USB HDMI KVM Cables; 1x Firmware Upgrade Cable; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11

CS1642A / CS1644A

2/4-Port USB DVI Dual Link Dual Display/Audio KVM™ Switch

Dual Link

Supports Quad Display with 2 Dual Display KVM Switches



Front

- CS1642A



- CS1644A



Rear

- CS1642A



- CS1644A



Features

- Supports Quad Display by connecting two Dual Display KVM switches
- **Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- HDCP compliant
- Superior video quality – 2560 x 1600 @ 60Hz (DVI Dual link); and 3D displays up to 1920 x 1200 @ 20Hz (DVI Single link)
- Multi-View Display – Easily connect two CS1642A/1644A's units for a second dual-screen setup controlled through a single connection
- One dual-screen USB console controls two/four computers
- Fully compliant with the DVI-Digital and DVI-Analog specification
- Audio enabled – full bass response provides a rich experience for 2.1 channel surround sound systems
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Supports keyboard combinations via emulation (for Mac/Sun)¹

Note: 1. PC keyboard combinations emulate Mac/Sun keyboards.
Mac/Sun keyboards work only with their own computers.

Specifications

	CS1642A	CS1644A
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse	
Connectors		
Console Ports	2 x USB Type A Female (rear panel) 2 x DVI-I Female (White) 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)	
KVM Ports	2 x USB Type B Female 4 x DVI-I Female (White) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB Type B Female 8 x DVI-I Female (White) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Daisy Chain Ports	1 x RJ-45 Female (rear panel)	
Power	1 x DC Jack	
USB Hub	2 x USB Type A Female (1 x front; 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	DVI Dual Link: 2560 x 1600 @ 60Hz; 3D Display: 1920 x 1200 @ 120Hz	
Power Consumption	DC5.3V: 3.77W	DC5.3V: 5.34W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	0.56 kg (1.23 lb)	2.32 kg (5.11 lb)
Dimensions (L x W x H)	26.23 x 7.68 x 4.40 cm (10.33 x 3.02 x 1.73 in.)	43.72 x 15.98 x 4.40 cm (17.21 x 6.29 x 1.73 in.)
Carton Lot	5 pcs	3 pcs
Included Accessories	2x USB DVI-D Dual Link KVM Cables; 2x DVI-D Dual Link Cables; 1x Power Adapter	4x USB DVI-D Dual Link KVM Cables; 4x DVI-D Dual Link Cables; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cables	2L-7D02UI (1.8 m), 2L-7D03UI (3 m)	17-10
USB DVI-D Dual Link KVM Cables	2L-7D02UD (1.8 m), 2L-7D03UD (3 m), 2L-7D05UD (5 m)	17-11
DVI-D Dual Link Cables	2L-7D03DD (3 m)	17-11

CS1782A / CS1784A

2/4-Port USB DVI Dual Link/Audio KVM[™] Switch

Dual Link DVI & 7.1* Surround Sound USB KVM[™] Switch



(*CS1782A only)



Dual Link

• CS1782A



• CS1784A



Front

• CS1782A



• CS1784A



Rear

• CS1782A



• CS1784A



Features

- DVI digital and analog monitor support – fully compliant with the DVI specifications
- Computer selection via front panel pushbuttons, hotkeys, and mouse
- **Video DynaSync[™]** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Full bass response for high quality 2.1 channel (CS1784A) / 7.1 channel surround sound systems (CS1782A)
- Superior video quality – 1920 x 1200 @ 60Hz (Single Link); 2560 x 1600 @ 60Hz (Dual Link)
- nVidia 3D Vision Ready – works with cutting edge 120Hz LCD monitors and active shutter glasses to create a 3D environment with maximum resolution of up to 1920 x 1080 for your ideal workspace and entertainment
- 2/4-port DVI KVM Switch with USB 2.0 and 7.1 / 2.1 surround sound audio
- HDCP compliant
- Power on detection
- Console mouse port emulation / bypass feature that supports most mouse drivers and multifunction mice
- Console keyboard emulation / bypass feature that supports most gaming / multimedia keyboards
- Multilingual keyboard mapping – supports English, French and Japanese keyboards
- Supports keyboard combinations via emulation (for Mac/Sun)¹

Note: 1. PC keyboard combinations emulate Mac/Sun keyboards. Mac/Sun keyboards work only with their own computers.

Specifications

	CS1782A	CS1784A
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse	
Connectors		
Console Ports	2 x USB Type A Female (rear) 1 x DVI-I Female (White) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 1 x 3.5mm Audio Jack Female (Blue) 1 x 3.5mm Audio Jack Female (Gray) 1 x 3.5mm Audio Jack Female (Black) 1 x 3.5mm Audio Jack Female (Orange) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)	2 x USB Type A Female (rear) 1 x DVI-I Female (White) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)
KVM Ports	2 x USB Type B Female 2 x DVI-I Female (White) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Blue) 2 x 3.5mm Audio Jack Female (Gray) 2 x 3.5mm Audio Jack Female (Black) 2 x 3.5mm Audio Jack Female (Orange) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB Type B Female 4 x DVI-I Female (White) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x DC Jack	
USB Hub	2 x USB Type A Female (1 x front, 1 x rear)	
Emulation		
Keyboard / Mouse	USB	
Video	DVI Single Link: 1920 x 1200 @ 60Hz; DVI Dual Link: 2560 x 1600 @ 60Hz	
Power Consumption	DC5.3V: 3.3W	DC5.3V: 5.91W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.90 kg (1.98 lb)	0.93 kg (2.05 lb)
Dimensions (L x W x H)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)	
Carton Lot	5 pcs	
Included Accessories*	2x USB DVI-D Dual Link KVM Cables; 2x 7.1 Channel Surround Sound Cables; 1x Power Adapter	4x USB DVI-D Dual Link KVM Cables; 1x Power Adapter

Note: * 1. Custom KVM Cable: 1.8 m x 2 (CS1782A); 1.8 m x 4 (CS1784A)
 2. Channel Surround Sound Cable: 1.8 m x 2 (CS1782A)

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cable	2L-7D02UI (1.8 m), 2L-7D03UI (3 m)	17-10
USB DVI-D Dual Link KVM Cables	2L-7D02UD (1.8 m), 2L-7D03UD (3 m), 2L-7D05UD (5 m)	17-11

CS1762A / CS1764A

2/4-Port USB DVI/Audio KVM™ Switch

Control 2 / 4 DVI Computers from a single USB / DVI Console



Front

- CS1762A



- CS1764A



Rear

- CS1762A



- CS1764A



Features

- Fully compliant with the DVI-D and DVI-A specifications
- Computer selection via front panel pushbuttons, hotkeys, and mouse
- Superior video quality – 1920 x 1200 @ 60Hz
- **Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- HDCP compliant
- One USB console controls two/four DVI computers
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Power on detection
- Multilingual keyboard mapping – supports English, French and Japanese keyboards
- Supports keyboard combinations via emulation (for Mac/Sun)¹

Note: 1. PC keyboard combinations emulate Mac/Sun keyboards.
Mac/Sun keyboards work only with their own computers.

Specifications

	CS1762A	CS1764A
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, Mouse	
Connectors		
Console Ports	2 x USB Type A Female 1 x DVI-I Female (White) 1 x 3.5mm Audio Jack Female (Green; rear) 1 x 3.5mm Audio Jack Female (Pink; rear)	2 x USB Type A Female 1 x DVI-I Female (White) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)
KVM Ports	2 x USB Type B Female 2 x DVI-I Female (White) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x USB Type B Female (White) 4 x DVI-I Female (White) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x DC Jack	
USB Hub	2 x USB Type A Female (rear)	2 x USB Type A Female (1 x front, 1 x rear)
Emulation		
Keyboard / Mouse	USB	
Video	1920 x 1200 @ 60Hz; DDC2B	
LEDs		
On Line / Selected	2 (Orange)	4 (Orange)
USB Link	2 (Green)	4 (Green)
Power Consumption	DC5.3V: 3.78W	DC5.3V: 4.8W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.73 kg (1.61 lb)	0.94 kg (2.07 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	
Included Accessories	2x USB DVI-D Single Link KVM Cables; 1x Power Adapter	4x USB DVI-D Single Link KVM Cables; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cables	2L-7D02UI (1.8 m), 2L-7D03UI (3 m)	17-10

CS1742 / CS1744

2/4-Port USB VGA Dual Display/Audio KVM[™] Switch

Dual Display (2 VGA Card PC) USB KVM Switch + Audio



Front

- CS1742



- CS1744



Rear

- CS1742



- CS1744



Features

- Allows one USB keyboard, USB mouse, speakers, microphone and two displays to control two dual display computers
- Computer selection via front panel pushbuttons and hotkeys
- Superior video quality – 2048 x 1536; DDC2B
- Audio enabled – full bass response provides a rich experience for 2.1 channel surround sound systems
- Supports keyboard combinations via emulation (for Mac/Sun)¹
- Multiplatform support: compatible with all operation platforms PC – Windows, Linux, Mac and Sun
- Buzzer on/off via hotkey
- Keyboard and mouse emulation for error-free booting
- Bus-powered – no external power adapter required

Note: 1. PC keyboard combinations emulate Mac/Sun keyboards. Mac/Sun keyboards work only with their own computers.

Specifications

	CS1742	CS1744
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton	
USB Port / Audio Port Selection	Hotkey	
Connectors		
Console Ports	2 x USB Type A Female (White) 2 x HDB-15 Female (Blue) 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)	
KVM Ports	2 x SPHD Male (Yellow) 2 x SPHD Female (Green)	4 x SPHD Male (Yellow) 4 x SPHD Female (Green)
Firmware Upgrade	1 x RJ-11 Female (Black)	
Power	1 x DC Jack (Black)	
USB Hub	2 x USB Type A Female (White)	
Emulation		
Keyboard / Mouse	USB	
Video	2048 x 1536; DDC2B	
LEDs		
On Line / Selected	2 (Orange)	4 (Orange)
USB Link	2 (Green)	4 (Green)
Power Consumption	DC5V: 0.98W	DC5V: 1.13W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.82 kg (1.81 lb)	1.03 kg (2.27 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	27.00 x 8.80 x 5.55 cm (10.63 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x KVM Cables (Audio / Video); 2x KVM Cables (USB / Video); 1x Firmware Upgrade Cable	4x KVM Cables (Audio / Video); 4x KVM Cables (USB / Video); 1x Firmware Upgrade Cable

Optional Accessories

Type	Part No. / Spec.	Page No.
Audio / Video KVM Cables	2L-5202A (1.8 m), 2L-5203A (3 m), 2L-5205A (5 m)	17-9
USB / Video KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
Power Adapter	DC5V, 2.6A	N/A

CS1732B / CS1734B

2/4-Port PS/2-USB VGA/Audio KVM[™] Switch with OSD

Advanced USB 2.0 KVM[™] Switch + Audio + OSD



Front



Rear



Features

- Dual Interface – supports computers with PS/2 or USB keyboards and mice configurations
- Computer selection via front panel pushbuttons, multilingual OSD (On Screen Display), hotkeys and mouse
- Superior video quality – 2048 x 1536; DDC2B
- [Video DynaSync[™]](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Supports multilingual OSD operation
- One USB console controls two/four computers
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Supports keyboard combinations via emulation (for Mac/Sun)¹

Note: 1. PC keyboard combinations emulate Mac/Sun keyboards. Mac/Sun keyboards work only with their own computers.

Specifications

	CS1732B	CS1734B
Computer Connections	2	4
Console Connections	Hotkey, Pushbutton, OSD, Mouse	
Connectors		
Console Ports	2 x USB Type A Female 1 x HDB-15 Female (Blue) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	
KVM Ports	2 x SPHD Female (Yellow) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)	4 x SPHD Female (Yellow) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Firmware Upgrade	1 x 4-conductor 3.5mm Jack (Black)	
Power	1 x DC Jack	
USB Hub	2 x USB Type A Female	
Emulation		
Keyboard / Mouse	PS/2; USB	
Video	2048 x 1536 @ 60Hz; DDC2B	
LEDs		
Online / Selected	2 (Orange)	4 (Orange)
USB Link	2 (Green)	4 (Green)
Power Consumption	DC5.3V: 2.53W	DC5.3V: 2.8W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.55 kg (1.21 lb)	0.78 kg (1.72 lb)
Dimensions (L x W x H)	14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	10 pcs	5 pcs
Included Accessories	2x Custom KVM Cables (VGA, USB, Audio); 2x OSD/Hotkey Stickers; 1x Firmware Upgrade Cable; 1x Power Adapter	4x Custom KVM Cables (VGA, USB, Audio); 2x OSD/Hotkey Stickers; 1x Firmware Upgrade Cable; 1x Power Adapter

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5301P (1.2 m), 2L-5302P (1.8 m), 2L-5303P (3 m), 2L-5305P (5 m)	17-10
USB / Video KVM Cables	2L-5301U (1.2m) , 2L-5302U (1.8 m), 2L-5303U (3 m), 2L-5305U (5 m)	17-10

CS82U / CS84U

2/4-Port PS/2-USB VGA KVM Switch



Front

• CS82U



• CS84U

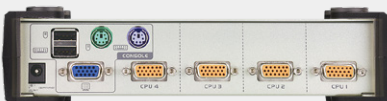


Rear

• CS82U



• CS84U



Features

- One PS/2-USB VGA console controls two/four computers
- Computer selection via front panel pushbuttons, hotkeys, and mouse
- Superior video quality – 2048 x 1536; DDC2B
- Dual Interface – supports computers with PS/2 or USB keyboards and mice
- **Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- USB mouse port can be used as a USB 1.1 hub and for USB 1.1 peripheral sharing
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Supports keyboard combinations via emulation (for Mac/Sun)¹
- Bus-powered – no external power adapter required

Note: 1. PC keyboard combinations emulate Mac/Sun keyboards. Mac/Sun keyboards work only with their own computers.

Specifications

	CS82U	CS84U
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton, USB Mouse	
Connectors		
Console Ports	2 x USB Type A Female 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDB-15 Female (Blue)	
KVM Ports	2 x SPHD Female (Yellow)	4 x SPHD Female (Yellow)
Power	1 x DC Jack	
Emulation		
Keyboard / Mouse	PS/2, USB	
Video	2048 x 1536 @ 60Hz; DDC2B	
LEDs		
Online	2 (Orange)	4 (Orange)
Selected	2 (Green)	4 (Green)
Power Consumption	DC5V: 0.72W	DC5V: 0.45W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.54 kg (1.19 lb)	0.77 kg (1.7 lb)
Dimensions (L x W x H)	14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	10 pcs	5 pcs
Included Accessory	2x PS/2-USB KVM Cables	4x PS/2-USB KVM Cables

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2-USB KVM Cables	2L-5301UP (1.2 m), 2L-5302UP (1.8 m), 2L-5303UP (3 m)	17-10
USB / Video KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
Power Adapter	DC5V, 2.6A	N/A

CS72U / CS74U

2/4-Port USB VGA/Audio KVM Switch



Front

• CS72U



• CS74U



Rear

• CS72U



• CS74U



Features

- One USB VGA console controls two/four computers
- Computer selection via front panel pushbuttons
- Superior video quality – 2048 x 1536; DDC2B
- Audio enabled – full bass response provides a rich experience for 2.1 channel surround sound systems
- Supports USB hot-plugging
- Bus-powered – no external power adapter required

Specifications

	CS72U	CS74U
Computer Connections	2	4
Port Selection	Pushbutton	
Connectors		
Console Ports	2 x USB Type A Female (Black) 1 x HDB-15 Female (Blue) 1 x 3.5mm Audio Jack Female (Pink) 1 x 3.5mm Audio Jack Female (Green)	
KVM Ports	2 x SPHD Female (Green)	4 x SPHD Female (Green)
Power	1 x DC 5V Jack (Spare)	
Video	2048 x 1536 @ 60Hz; DDC2B	
LEDs		
Online	2 (Orange)	4 (Orange)
Selected	2 (Green)	4 (Green)
Power Consumption	DC5V: 0.142W	DC5V: 0.177W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.45 kg (0.99 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H)	13.00 x 7.65 x 4.40 cm (5.12 x 3.01 x 1.73 in.)	20.00 x 7.65 x 4.40 cm (7.87 x 3.01 x 1.73 in.)
Carton Lot	20 pcs	5 pcs
Included Accessory	2x USB KVM Cables	4x USB KVM Cables

Optional Accessories

Type	Part No. / Spec.	Page No.
USB / Video KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
Power Adapter	DC5V, 2.6A	N/A

CS82A / CS84A

2/4-Port PS/2 VGA KVM Switch



Front

• CS82A



• CS84A



Rear

• CS82A



• CS84A



Features

- One PS/2 console controls two/four computers
- Compact, sturdy, durable metal housing
- Keyboard and mouse emulation for error-free booting
- Auto Scan function to monitor computer operation
- Bus-powered – no external power adapter required

Specifications

	CS82A	CS84A
Computer Connections	2	4
Port Selection	Hotkey, Pushbutton	
Connectors		
Console Ports	1 x HDB-15 Female (Blue) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green)	
KVM Ports	2 x HDB-15 Male (Blue) 2 x 6-pin Mini-DIN Female (Purple) 2 x 6-pin Mini-DIN Female (Green)	4 x HDB-15 Male (Blue) 4 x 6-pin Mini-DIN Female (Purple) 4 x 6-pin Mini-DIN Female (Green)
Power	1 x DC Jack	
Emulation		
Keyboard / Mouse	PS/2	
Video	1920 x 1440 @ 60Hz; DDC2B	
LEDs		
Online	2 (Orange)	4 (Orange)
Selected	2 (Green)	4 (Green)
Power Consumption	DC9V: 0.3W	DC9V: 0.3W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.54 kg (1.19 lb)	0.78 kg (1.72 lb)
Dimensions (L x W x H)	14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	10 pcs	5 pcs
Included Accessory	2x PS/2 KVM Cables	4x PS/2 KVM Cables

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-1001P/C (1.8 m), 2L-1003P/C (3 m), 2L-1005P/C (5 m), 2L-1006P/C (6 m), 2L-1010P/C (10 m), 2L-1020P/C (20 m) 2L-5001P/C (1.2 m), 2L-5002P/C (1.8 m), 2L-5003P/C (3 m), 2L-5005P/C (5 m)	17-9
Cables & Converters for USB Interface Support	2L-5502UP (1.8 m), 2L-5503UP (3 m), 2L-5506UP (6 m) Supports Mac Keyboards Emulation: UC100KMA	17-9 17-3
Power Adapter	DC9V, 300mA	N/A

CS74E

4-Port PS/2 VGA Slim KVM Switch



Front



Rear

Features

- One PS/2 console controls four computers
- Computer selection via front panel pushbuttons
- Superior video quality – 2048 x 1536; DDC2B
- Compact, modern case for convenient attractive placement
- Custom connector layout
- Keyboard and mouse emulation for error-free booting
- Auto Scan function to monitor computer operation
- Bus-powered – no external power adapter required

Specifications

	CS74E
Computer Connections	4
Port Selection	Hotkey, Pushbutton
Connectors	
Console Ports	1 x SPHD Male (Yellow)
KVM Ports	4 x SPHD Female (Yellow)
Power	1 x DC Jack
Emulation	
Keyboard / Mouse	PS/2
Video	2048 x 1536 @ 60Hz; DDC2B
LEDs	
Selected	4 (Green)
Power Consumption	DC5V: 0.39W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.49 kg (1.08 lb)
Dimensions (L x W x H)	20.00 x 8.15 x 2.50 cm (7.87 x 3.21 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	4x PS/2 KVM Cables; 1x Console Adapter Cable

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Cables & Converters for USB Interface Support	2L-5202UP (1.8 m), 2L-5203UP (3 m), 2L-5205UP (5 m), 2L-5206UP (6 m) Supports Mac Keyboards Emulation: UC100KMA	17-9 17-3
Power Adapter	DC9V, 300mA	N/A

KVM over IP Matrix System

CCKM • KE9950 / KE9952 • KE9900ST • KE8950 / KE8952
KE8900S • KE6910 / KE6912 • KE6900 / KE6940 • KE6900ST • ES0152P
KE6900AiT / KE6940AiT • KE6900A / KE6940A • KE6920 / KE6922 • KX9970

The ATEN KVM over IP Matrix System is an innovative solution that combines KVM over IP Extenders (KE9950 / KE9952 / KE9900ST / KE8950 / KE8952 / KE8900S / KE6910 / KE6912 / KE6900 / KE6940 / KE6900ST / KE6900AiT / KE6940AiT / KE6900A / KE6940A / KE6920 / KE6922) with the CCKM (Matrix Management Software) to extend, control and monitor access to computers across an independent network in a multitude of ways. The system lets you set up a matrix of workstations that accesses computers across a network with the flexibility to configure each connection for the seamless data flow required for any and all applications.

KVM over IP Extenders are installed at computers and workstations, and are configured via the CCKM (Matrix Management Software) to create connections between them over a LAN. Extender setups can be configured for one-to-one, one-to-many, many-to-one, and many-to-many connections. Whether you're extending computer access for monitoring, broadcasting, editing, or workstation setups, the KVM over IP Matrix System gives you the flexibility and control to manage one or hundreds of extended connections.



• Boundless Switching

ATEN Boundless Switching technology provides an intuitive way to switch control to another receiver by simply moving your mouse cursor across the screen border and onto the target computer display. Move the mouse cursor in any direction to switch the control focus without limitations.

• Effortless over IP Digital Media Extension

Eliminates the distance restrictions of control room management; enables a faster response to mission-critical data center emergencies; all models support unlimited distances via Cat 5e/6 over a LAN, while the KE89xx / KE89xx also supports up to 10km via a SFP fiber optic transceiver module over an optical Ethernet network.

• Exceptional Video Quality up to 5K

ATEN's KE / KX series delivers high-definition images up to 5120x1440@60Hz, 5120x2880@30Hz at 36-bit color depth, 3840x2160@60Hz (KE8950/KE8952), 3840 x 2160 @30Hz (KE8950 / KE8952 / KE9950 / KE9952), 2560 x 1600 @60Hz (KE6910 / KE6912 / KE6920 / KE6922) and 1920 x 1200 @60Hz (KE6900 / KE6940 / KE6900ST / KE8900S / KE9900ST / KE6900AiT / KE6940AiT / KE6900A / KE6940A) at 24-bit color depth for stunning colors and razor-sharp video quality even with the most bandwidth-heavy video streams.

• Powerful Centralized Management

ATEN's CCKMM (atrix Management Software) makes it easy to define connections and manage all KE / KX devices over a network with a new, intuitive, user-friendly web-based GUI; administrators can set three permission types – Admin., Super User, and User, to meet different user access requirements.

• Fast Switching

ATEN's unique Fast Switching technology features instant switching between different video resolutions, providing immediate viewing of critical information for video surveillance or monitoring applications.

• Unbeatable Video Wall Versatility

With unprecedented video quality and unmatched resolutions, the native video wall functionality allows users to create multiple video walls with up to 8 x 8 displays in each layout in various configurations, offering outstanding flexibility and scalability without the need for a separate video wall processor.

• Secure Data Transmission

KE KVM over IP Extenders utilize AES 128-bit encryption to secure all data before transmission over a network and then decrypt the data on the receiver.

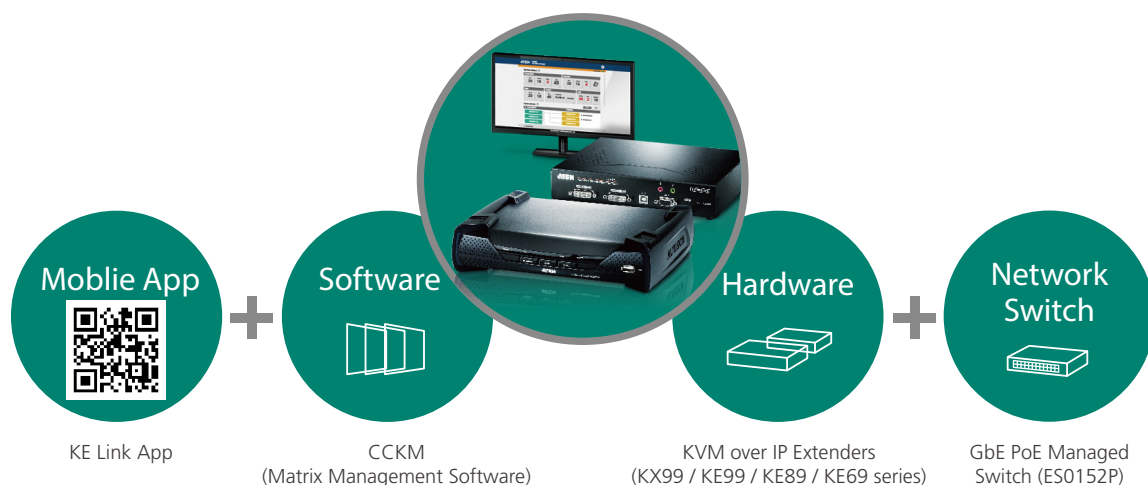
Comparison

Model	KX9970	KE9950	KE9952	KE9900ST	KE8950	KE8952	KE6910	KE6912
Support Interface	DisplayPort	DisplayPort	DisplayPort	DisplayPort	HDMI	HDMI	DVI-D	DVI-D
Max. Video Resolution	5120 x 1440 @60Hz	3840 x 2160 @30Hz (4:4:4)	3840 x 2160 @30Hz (4:4:4)	1920 x 1200 @60Hz	3840 x 2160 @60Hz (4:2:0)	3840 x 2160 @60Hz (4:2:0)	2560 x 1600 @60Hz	2560 x 1600 @60Hz
Audio	•	•	•	• (Digital)	•	•	•	•
Mouse Emulation	•	•	•	•	•	•	•	•
Tx Local Console	•	•	•	N/A	•	•	•	•
Boundless Switching	•	•	•	•	•	•	•	•
Fast Switching*	•	•	•	•	•	•	•	•
Dual Video Output	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Video Wall*	•	•	•	•	•	•	•	•
RS-232	•	•	•	•	•	•	•	•
OSD	•	•	•	N/A	•	•	•	•
Virtual Media	•	•	•	•	•	•	•	•
Virtual USB	•	•	•	N/A	•	•	•	•
PoE	N/A	N/A	•	N/A	N/A	•	N/A	•
DC Jack	2	2	1	1	1	1	2	1
LAN	10 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps
Internet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Network Interface	RJ45 (SFP)	RJ45 (SFP)	RJ45 (SFP)	RJ45	RJ45 (SFP)	RJ45 (SFP)	RJ45 (SFP)	RJ45 (SFP)

Model	KE8900S	KE6900A	KE6940A	KE6900ST	KE6900AiT	KE6940AiT	KE6920	KE6922
Support Interface	HDMI	DVI-I	2*DVI-I	DVI-D	DVI-I	2*DVI-I	DVI-D	DVI-D
Max. Video Resolution	1920 x 1200 @60Hz	1920 x 1200 @60Hz	1920 x 1200 @60Hz	1920 x 1200 @60Hz	1920x1200 @60Hz	1920x1200 @60Hz	2560x1600 @60Hz	2560x1600 @60Hz
Audio	• (Digital)	•	•	N/A	•	•	•	•
Mouse Emulation	•	•	•	•	•	•	•	•
Tx Local Console	N/A	•	•	N/A	•	•	•	•
Boundless Switching	•	•	•	•	•	•	•	•
Fast Switching*	•	•	•	•	•	•	•	•
Dual Video Output	N/A	N/A	•	N/A	N/A	•	N/A	N/A
Video Wall*	•	•	•	•	•	•	•	•
RS-232	•	•	•	•	•	•	•	•
OSD	•	•	•	N/A	•	•	•	•
Virtual Media	•	•	•	•	•	•	•	•
Virtual USB	N/A	•	•	N/A	•	•	•	•
PoE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	•
DC Jack	1	2	2	1	2	2	2	2
LAN	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps
Internet	N/A	N/A	N/A	N/A	•	•	N/A	N/A
Network Interface	RJ45	RJ45 (SFP)	RJ45 (SFP)	RJ45	RJ45 (SFP)	RJ45 (SFP)	RJ45 (SFP*2)	RJ45 (SFP*2)

Note: *Supported by KE Matrix Management Software (CCKM)

KVM over IP Matrix System





Highlights

- Software-based to manage, configure, and control Matrix Systems
- Versatile functionality – KVM Switches, Computer Sharing Devices, Matrix Systems, Extenders
- Install Wizard to add new devices instantly
- [Previews all transmitters' video content at a glance](#)
- [Instant link provides real time connection, allowing users to select or drag/drop a transmitter to a receiver](#)
- Integrate with VK Series control system via RS232 and Telnet
- [Boundless Switching – simply move the mouse cursor across screen / multi-screen boundaries to switch between different receivers](#)
- Intuitive Dashboard – Administrators can easily know system status, device connections, scheduled profiles, and user sessions
- Anonymous Login – allows users to login without authentication
- Allows users to select any required configurations and copy/paste them to new devices within 1 sec.
- Enables users to replace devices that go down with the original configurations
- Video Wall Layout Selection: Video Wall / Splitter / Customized
- Independently stream HDMI audio signals to either digital or analog audio interfaces
- Intelligent Dual Video Output Management

Management

- Centralized KE Matrix Management Software, allowing you to configure, administer, control, and maintain all KE / KX series devices via an intuitive web based GUI
- Effortless control ES0152P network switch via a simple click
- One-to-one, one-to-many, many-to-one and many-to-many Tx/Rx connections
- Profiles can save and reserved unlimited Tx to Rx device connections
- Channel connections allow Rx devices to connect to multiple Tx devices – to stream video, audio, USB and serial sources independently
- Configurable user and group permissions for access and control of KE / KX devices
- Administrators can set access modes on Tx devices for collaboration or to avoid interference among users
- Administrators easily view KE status and the latest system events in the GUI dashboard
- Primary-Secondary architecture – provides one primary and five secondary server for system redundancy
- Virtual license – instead of physical USB dongle, users can easily authenticate CCKM with no security issue by using virtual key

Flexible and Efficient Operations

- Unlimited Video Walls – create multiple video walls with up to 8 x8 (64 displays max) in each layout
- Advanced Scheduling – improve efficiency and saves costs by allowing media playback to be set based on time and date
- Video grouping of up to 4 sets of KE series or KX series transmitters to support Multi-Display applications
- Fast switching feature changes transmitter/receiver connections in under a second
- SNMP Agent / SNMP Trap – automatically sends out SNMP warning messages when specific conditions occurred or emergency requested from the SNMP manager

Intuitive User Interface

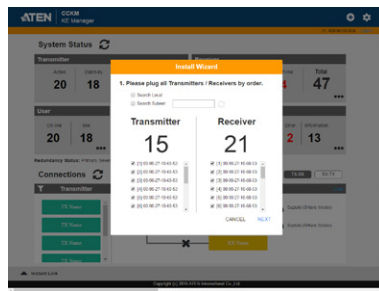
- Multi-platform installation support: Windows / Linux
- Multi-platform client support: Windows, Mac OS X, Linux, Sun
- Browser-based GUI offers a multi-language interface to minimize user training time and increase productivity
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera, Mozilla
- Filter and export function for system event logs
- Email notification of specified system event logs

Advanced Security

- User account authentication and management
- Support both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS, and TACACS+
- Data transmission is secured by AES encryption

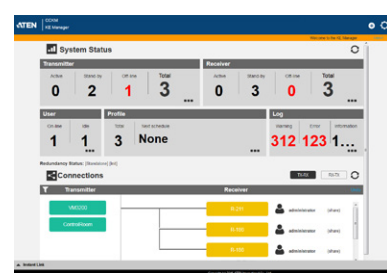
Install Wizard

Detects all devices in the LAN automatically for quick installation.



Dashboard

Provides system status, KE / KX connections, user login, schedule profiles and current sessions at a glance.



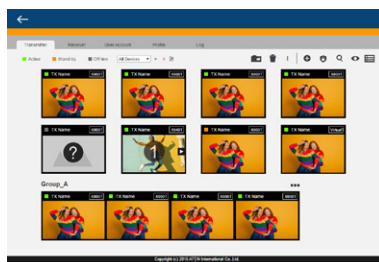
Boundless Switching

Switch between single-output / multi-output computers by moving the mouse across the display border.



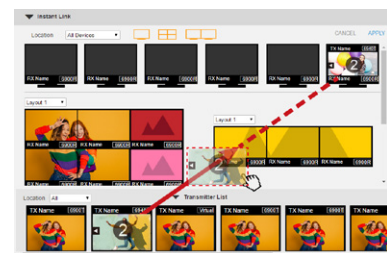
Real-time Preview

Monitor all transmitters simultaneously on one screen.



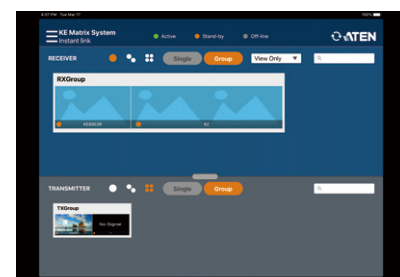
Instant Link

Connect transmitters and receivers with a simple drag-and-drop.



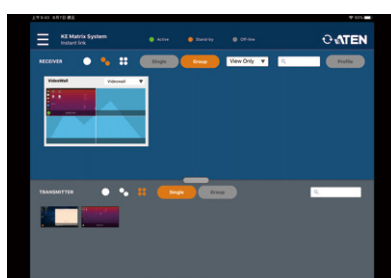
KE Link App

ATEN's new KE Link APP is designed to help customers with license more effectively control and manage by app-installed iPad anytime.



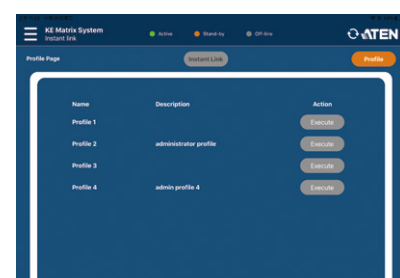
Drag-and-Drop

Easily switches connect transmitters and receivers by drag-and-drop in different privilege on iPad.



Profile Switch

Setting on CCKM web first and users can operate CCKM on iPad to switch different profile directly



KX9970

5K DisplayPort Single Display KVM over IP Extender



KX9970



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- **Supports DisplayPort video output – providing a greatly improved video display image up to 5120 x 1440 @ 60 Hz, 5120 x 2880 @ 30 Hz, or 4096 x 2160 @ 60 Hz(4:4:4); 36-bit color depth**
- Supports 10 Gbps SFP+ fiber module and RJ-45 expansions up to 10 km
- **Native DP signal processing with color depth 8, 10, 12 bits, and supports HDR 10**
- Local console for emergency operation
- "Push" and "Pull" – share content instantly by just one click
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized management software – CCKM* allows users to easily administer all KX devices with an intuitive web based GUI

Note: *Refer to page 5-3 for details.

Hardware

- Supports 5K video quality – up to 5120 x 1440 @ 60 Hz, 5120 x 2880 @ 30 Hz, or 4096 x 2160 @ 60 Hz (4:4:4); 36-bit color depth
- Supports interlaced video format
- Supports stereo speakers and stereo microphone
- High speed USB Storage Transmission support
- Compliant with DP 1.2
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable – Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Support 10Gbps SFP+ fiber module and RJ-45 expansions² up to 10 km
- Power Redundancy – Dual DC Jack
- Network Redundancy – Supports connection via 10GbE (RJ-45) or SFP+ port for failover
- Embedded / De-embedded DP Audio Support
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions

Management

- Dual console operation – controls your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings to prevent video compatibility issue caused by different monitors
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KX devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KX devices

Security

- Dedicated LAN port for KX direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

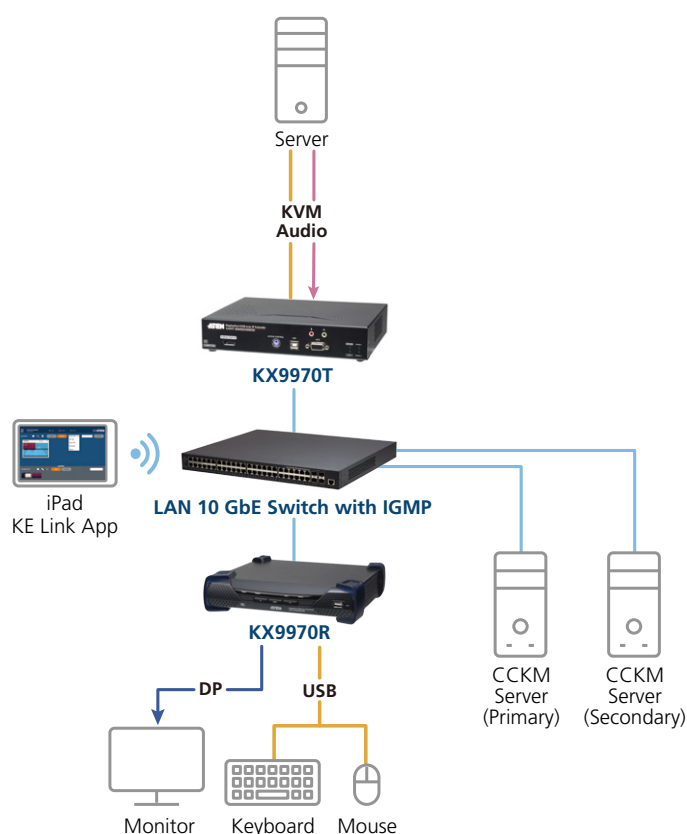
Advanced Features³

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB, and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KX devices
- Tx grouping of up to 4 sets of KX transmitters to support multi-display applications
- Rx access control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Note:

1. Refer to www.aten.com for more details.
2. SFP+ modules are required for fiber network connection. Refer to page 5-38 for details.
3. These advanced functions are supported when the KX transmitters are paired with KX receivers and managed by CCKM
4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

● Video ● KVM / USB ● Audio ● Network

Specifications

	KX9970R	KX9970T
Connectors		
USB Port	2 x USB Type A Female (White)	N/A
Console Ports	2 x USB Type A Female (White) 1 x DisplayPort Female (Black) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	
KVM Ports	N/A	1 x USB Type B Female (White) 1 x DisplayPort Female (Black) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Power	2 x DC Jack (Black)	
LAN Ports	1 x RJ-45 (Black) 2 x SFP+ Slot	
Control	N/A	1 x PS/2 Female (Purple)
Switches		
OSD	1 x Pushbutton	
Port (Up)	1 x Pushbutton	
Port (Down)	1 x Pushbutton	
Reset	1 x Semi-recessed Pushbutton	
LEDs		
1000/10000 Mbps	1 (1000: Orange / 10000: Green)	
Power	2 (Blue)	
Local	1 (Green)	
Remote	1 (Green)	
Emulation		
Keyboard / Mouse	USB	
Video Resolution	Up to 5120 x 2880 @ 30Hz, 5120 x 1440 @ 60Hz	
Environmental		
Operating Temperature	0 – 50 °C	
Storage Temperature	-20 – 60 °C	
Humidity	0 – 95% RH, Non-condensing	
Physical Properties		
Housing	Metal	

Included Accessories

	KX9970
Power Adapters	2
DisplayPort Cable*	•
USB Type-A to Type-B Cable*	•
Mounting Kit*	•

Note:
These accessories are only included with transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
SFP Modules	2A-141G (Multi-Mode) 2A-142G (Single-Mode)	5-38
DisplayPort Cable	2L-7D02DP (2 m) 2L-7D03DP (3 m) 2L-7D03DP-1 (3 m) 2L-7D04DP (4 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for details	
2X-031G Single Rack Mount Kit		

KE9950 / KE9952

4K DisplayPort Single Display KVM over IP Extender / 4K DisplayPort Single Display KVM over IP Extender with PoE



KE9952



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- **Supports DisplayPort video output – providing a greatly improved video display image up to 3840 x 2160 @ 30Hz (4:4:4); 24-bit color depth**
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Supports Power over Ethernet (PoE) function (KE9952 only) as PD (Powered Device)
- Local console for emergency operation
- “Push” and “Pull” – share content instantly by just one click
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI

Note: *Refer to page 5-37 for details.

Hardware

- Ultra High Definition (UHD) video quality – up to 3840 x 2160 @ 30Hz (4:4:4); 24-bit color depth
- Supports interlaced video format
- Supports stereo speakers and stereo microphone
- High speed USB Storage Transmission support
- Compliant with DP 1.2
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable – Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Network Redundancy – Supports connection via Gigabit Ethernet port (RJ-45) or SFP port for failover
- Support 1Gbps SFP fiber module expansions² up to 10 km
- Power Redundancy – Dual DC Jack (KE9950); DC Jack + PoE (KE9952)
- Network Redundancy – Supports connection via Gigabit Ethernet port (RJ-45) or SFP port for failover
- Supports Power over Ethernet (PoE) function – compliant with the IEEE 802.3at standard (KE9952 only)
- Embedded / De-embedded DP Audio Support
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions (KE9950 only)

Management

- Dual console operation – controls your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings to prevent video compatibility issue caused by different monitors
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features³

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB, and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE transmitters to support multi-display applications
- Rx access control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

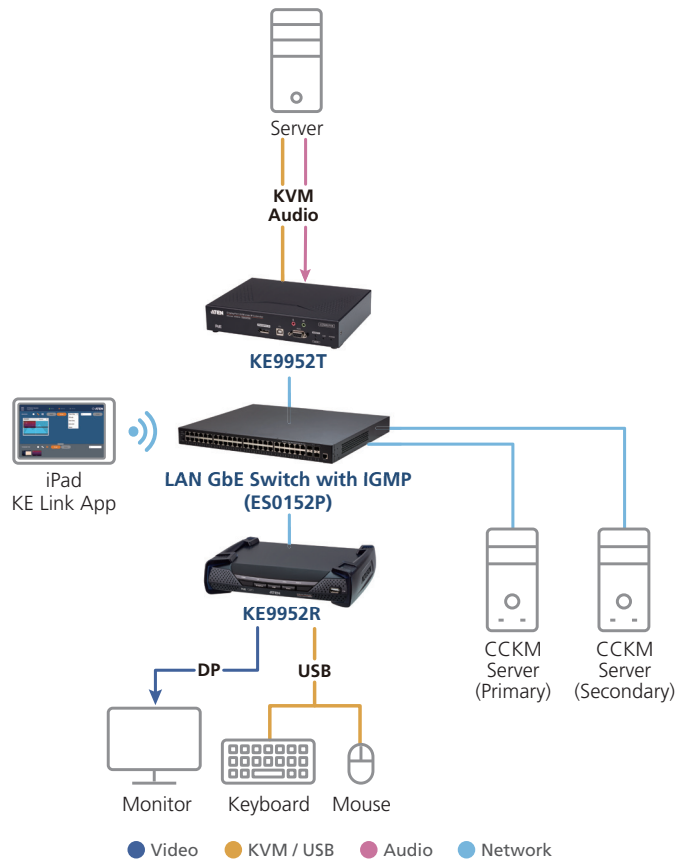
Note: 1. Refer to www.aten.com for more details.

2. SFP modules are required for fiber network connection. Refer to page 5-39 for details.

3. These advanced functions are supported when the KE transmitters are paired with KE receivers and managed by KE Matrix Management Software (CCKM).

4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

Specifications

	KE9950R	KE9952R	KE9950T	KE9952T
Connectors				
USB Port	2 x USB Type A Female (White)		N/A	
Console Ports	2 x USB Type A Female (White) 1 x DisplayPort Female (Black) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)			
KVM Ports	N/A		1 x USB Type B Female (White) 1 x DisplayPort Female (Black) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	
Power	2 x DC Jack (Black)	1 x DC Jack (Black)	2 x DC Jack (Black)	1 x DC Jack (Black)
LAN Ports	1 x RJ-45 (Black)	1 x RJ-45 (Black, PoE)	1 x RJ-45 (Black)	1 x RJ-45 (Black, PoE)
	1 x SFP Slot			
LEDs				
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)			
Power	1 (Blue)			
Local	1 (Green)			
Remote	1 (Green)			
Video Resolution	3840 x 2160 @ 30Hz			
Emulation				
Keyboard / Mouse	USB			
Power Consumption	DC5V: 8.03W	DC48V: 10.04W	DC5V: 9.51W	DC48V: 11.88W
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	1.24kg (2.73 lb)	1.27kg (2.80 lb)	1.12kg (2.47 lb)	1.15kg (2.54 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 in.)		21.5 x 16.29 x 4.18 cm (8.46 x 6.41 x 1.65 in.)	
Carton Lot	3 pcs			

Included Accessories

	KE9950 / KE9952
Power Adapters ¹	2
DisplayPort Cable ²	•
USB 2.0 Type-A to Type-B Cable ²	•
Mounting Kit ²	•

Note:

1. This accessory is only included with KE9950 model.
2. These accessories are only included with transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
SFP Modules	2A-136G (Multi-Mode) 2A-137G (Single-Mode)	5-39
DisplayPort Cable	2L-7D02DP (2 m) 2L-7D03DP (3 m) 2L-7D03DP-1 (3 m) 2L-7D04DP (4 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.ATEN.com for details	
2X-031G Single Rack Mount Kit		

KE9900ST

Slim DisplayPort Single Display KVM over IP Transmitter



KE9900ST



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Slim, light and fanless design
- “Push” and “Pull” – share content instantly by just one click
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI

Note: *Refer to page 3-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24-bit color depth
- Supports standard DisplayPort resolutions from 640 x 480 up to 1920 x 1200
- High speed USB Storage Transmission support
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 1KV surge protection
- Fanless design for silent operations that are energy efficient
- Compliant with DP 1.2
- Rack Mountable
- Supports connection via Gigabit Ethernet port
- Embedded / De-embedded DP Audio Support

Management

- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping feature helps locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

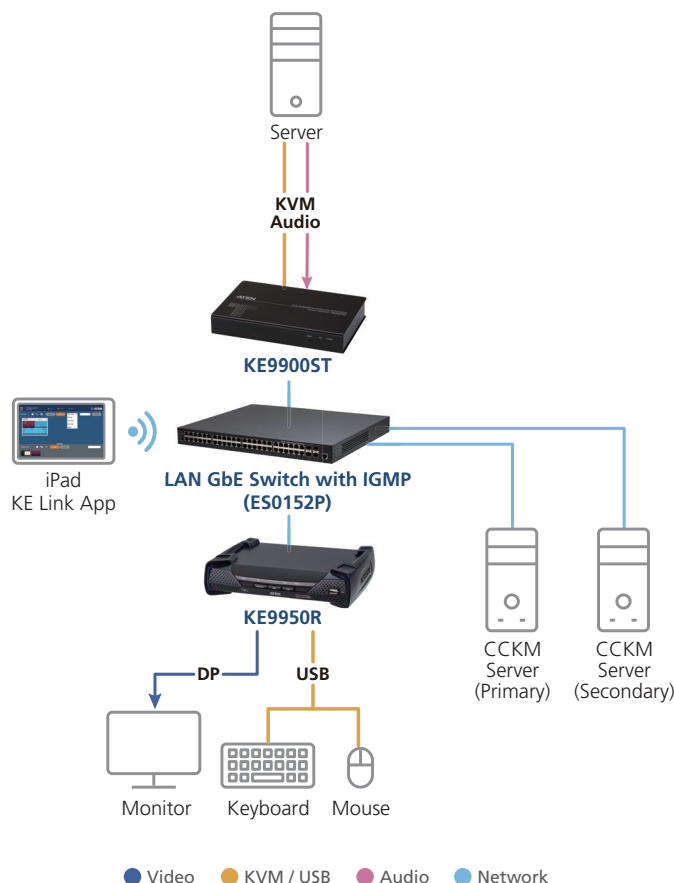
Advanced Features¹

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series transmitters to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button²
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Note: 1. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM).

2. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

Specifications

KE9900ST	
Connectors	
KVM Ports	1 x USB Type B Female (White) 1 x DisplayPort Female (Black) 1 x DB-9 Female (Black)
Power	1 x DC Jack (Black) 1 x 3-Pole Terminal Block Connector (Green)
LAN Ports	1 x RJ-45 (Black)
LEDs	
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)
Power	1 (Blue)
Video Resolution	Up to 1920 x 1200 @ 60Hz
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC5V: 4.75W; PoE: 6.97W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg (1.43 lb)
Dimensions (L x W x H)	18.20 x 11.75 x 2.87 cm (7.17 x 4.63 x 1.13 in.)
Carton Lot	5 pcs

Included Accessories

	KE9900ST
DisplayPort Cable	•
USB Cable	•
Power Adapter	•
Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
DisplayPort Cable	2L-7D02DP (2 m) 2L-7D03DP (3 m) 2L-7D03DP-1 (3 m) 2L-7D04DP (4 m)	17-11
VE-RMK 1U Extender Rack mount Kit	Please refer to www.aten.com for more details.	

KE8950 / KE8952

4K HDMI Single Display KVM over IP Extender /
4K HDMI Single Display KVM over IP Extender with PoE



• KE8952



KE8952



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- **Supports HDMI video output – providing a greatly improved video display image up to 3840 x 2160 @ 60Hz (4:2:0) or 3840 x 2160 @ 30Hz (4:4:4)**
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Supports Power over Ethernet (PoE) function (KE8952 only) as PD (Powered Device)
- Local console for emergency operation
- “Push” and “Pull” – share content instantly by just one click
- Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI

Note: *Refer to page 5-3 for details.

Hardware

- Ultra High Definition (UHD) video quality – up to 3840 x 2160 @ 60Hz (4:2:0) or 3840 x 2160 @ 30Hz (4:4:4); 24-bit color depth
- Supports interlaced video format
- Supports stereo speakers and stereo microphone
- High speed USB Storage Transmission support
- Compliant with HDMI
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 1KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable – Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Network Redundancy – Supports connection via Gigabit Ethernet port (RJ-45) or SFP port for failover
- Support 1Gbps SFP fiber module expansions² up to 10 km
- Supports Power over Ethernet (PoE) function – compliant with the IEEE 802.3at standard (KE8952 only)
- Embedded / De-embedded HDMI Audio Support
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions (KE8950 only)

Management

- Remotely access computers on your KVM installation via intranet
- Dual console operation – control your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings to prevent video compatibility issue caused by different monitors
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Support industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features³

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

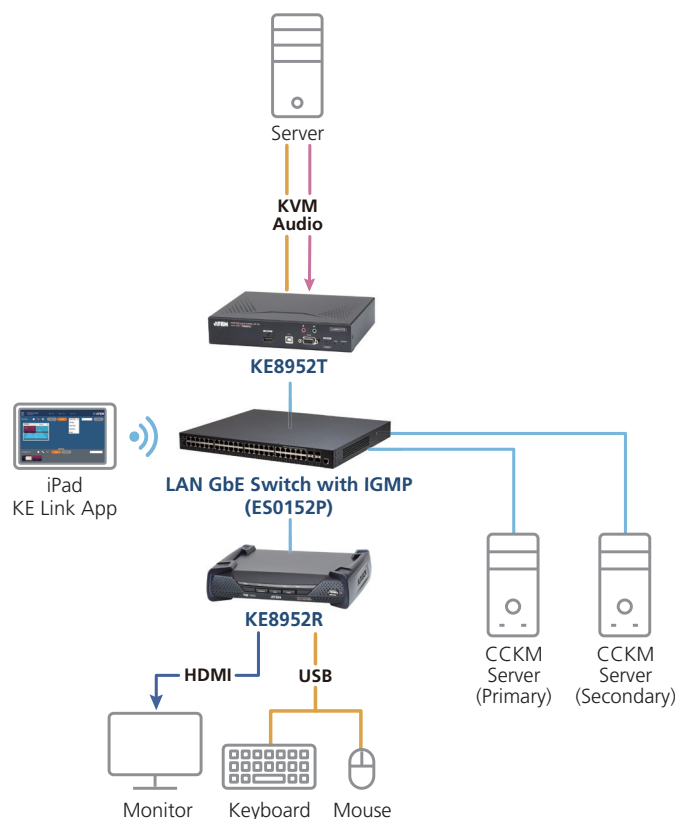
Note: 1. Refer to www.aten.com for more details.

2. SFP modules are required for fiber network connection. Refer to page 5-39 for details.

3. These advanced functions are supported when the KE transmitters are paired with KE receivers and managed by KE Matrix Management Software (CCKM).

4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

Specifications

	KE8950R	KE8952R	KE8950T	KE8952T
Connectors				
USB Port	2 x USB Type A Female (White)		N/A	
Console Ports	2 x USB Type A Female (White) 1 x HDMI Female (Black) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)			
KVM Ports	N/A		1 x USB Type B Female (White) 1 x HDMI Female (Black) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	
Power	1 x DC Jack (Black)			
LAN Ports	1 x RJ-45 (Black)	1 x RJ-45 (Black,PoE)	1 x RJ-45 (Black)	1 x RJ-45 (Black,PoE)
	1 x SFP Slot			
LEDs				
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)			
Power	1 (Blue)			
Local	1 (Green)			
Remote	1 (Green)			
Video Resolution	3840 x 2160 @ 60Hz (4:2:0); 3840 x 2160 @ 30 Hz (4:4:4)			
Emulation				
Keyboard / Mouse	USB			
Power Consumption	DC 5V: 5.65W	DC 48V: 7.06W	DC 5V: 6.56W	DC 48V: 9.02W
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	1.23 kg (2.71 lb)	1.26 kg (2.78 lb)	1.10 kg (2.42 lb)	1.13 kg (2.49 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 in.)		21.50 x 16.29 x 4.18 cm (8.46 x 6.41 x 1.65 in.)	
Carton Lot	3 pcs			

Included Accessories

	KE8950 / KE8952
Power Adapters ¹	2
USB HDMI KVM Cable ²	•
HDMI LockPro	2
Mounting Kit ²	•

Note:

1. This accessory is only included with KE8950 model
2. These accessories are only included with transmitter models

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
SFP Modules	• 2A-136G (Multi-Mode) • 2A-137G (Single-Mode)	5-39
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for details	
2X-031G Single Rack Mount Kit		

KE8900S

Slim HDMI Single Display KVM over IP Extender



KE8900S



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Slim, light and fanless design
- “Push” and “Pull” – share content instantly by just one click
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI

Note: *Refer to page 5-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24-bit color depth
- High speed USB Storage Transmission support
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 1KV surge protection
- Fanless design for silent operations that are energy efficient
- Compliant with HDMI
- Rack Mountable
- Supports connection via Gigabit Ethernet port
- Embedded / De-embedded HDMI Audio Support

Management

- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

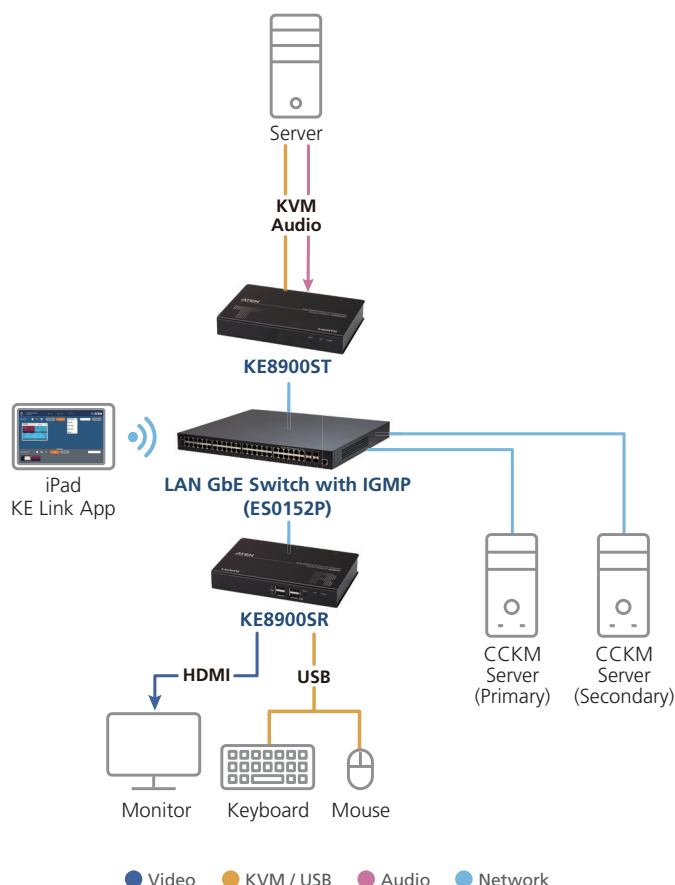
Advanced Features¹

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button²
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Note: 1. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM).

2. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

Specifications

	KE8900SR	KE8900ST
Connectors		
USB Port	2 x USB Type A Female (Black)	N/A
Console Ports	2 x USB Type A Female (Black) 1 x HDMI Female (Black) 1 x DB-9 Male (Black)	N/A
KVM Ports	N/A	1 x USB Type B Female (White) 1 x HDMI Female (Black) 1 x DB-9 Female (Black)
Power	1 x DC Jack (Black)	1 x DC Jack (Black) 1 x 3-Pole Terminal Block Connector (Green)
LAN Ports	1 x RJ-45 (Black)	
LEDs		
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)	
Power	1 (Blue)	
Video Resolution	Up to 1920 x 1200 @ 60Hz	
Emulation		
Keyboard / Mouse	USB	
Power Consumption	DC5V: 4.35W	DC5V: 4.3W PoE: 6.61W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 95% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.64 kg (1.41 lb)	0.65 kg (1.43 lb)
Dimensions (L x W x H)	18.20 x 11.75 x 2.87 cm (7.17 x 4.63 x 1.13 in.)	
Carton Lot	5 pcs	

Included Accessories

	KE8900S
Power Adapter	2
USB HDMI KVM Cable*	•
HDMI LockPro	2
Mounting Kit*	•

Note:

*This accessory is only included with KE8900ST.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11
VE-RMK 1U Extender Rack mount Kit	Please refer to www.aten.com for more details.	

KE6920 / KE6922

2K DVI-D Dual-Link KVM over IP Extender with Dual SFP /
2K DVI-D Dual-Link KVM over IP Extender with Dual SFP & PoE



KE6922



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Exclusive Features for ATC Industry such as 2K x 2K video resolution (2048 x 2048 @ 60Hz) support, **Adaptive Fast Switching, Boundless Switching, Authentication Lock, Connection Redundancy, and Disconnection Alert**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports power/network failover
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Supports Power over Ethernet (PoE) function (KE6922 only) as PD (Powered Device)
- Local console for emergency operation
- “Push” and “Pull” – share content instantly by just one click
- **Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI**

Note: *Refer to page 5-3 for details.

Exclusive Features for ATC Industry¹

- Supports 2K x 2K video resolution (2048 x 2048 @ 60Hz); 24-bit color depth
- Supports power/network failover – 2 DC jacks for KE6920 and KE6922 for power redundancy and 1 RJ45 & 2 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Adaptive Fast Switching – automatically fast switches between different Tx video resolutions on a Rx display within 0.3 second
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- “Push” and “Pull” – share content instantly to/from a single Rx or video wall by just one click
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Hardware

- Supports DVI-D Dual Link video resolutions up to 2560 x 1600 @60Hz and 2560 x 2048 @50Hz
- Supports stereo speakers and stereo microphone
- High speed USB Storage Transmission support
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable – Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit²
 - (2) 2X-031G Single Rack Mount Kit²
- Supports power/network failover – 2 DC jacks for KE6920 and KE6922 for power redundancy and 1 RJ45 & 2 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Support 1Gbps SFP fiber module expansions³ up to 10 km
- Supports Power over Ethernet (PoE) function – compliant with the IEEE 802.3at standard (KE6922 only)
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions (KE6920 only)

Management

- Dual console operation – controls your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings to prevent video compatibility issue caused by different monitors
- On-screen Preview – allows users to view the video of up to 36 displays on one screen

- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

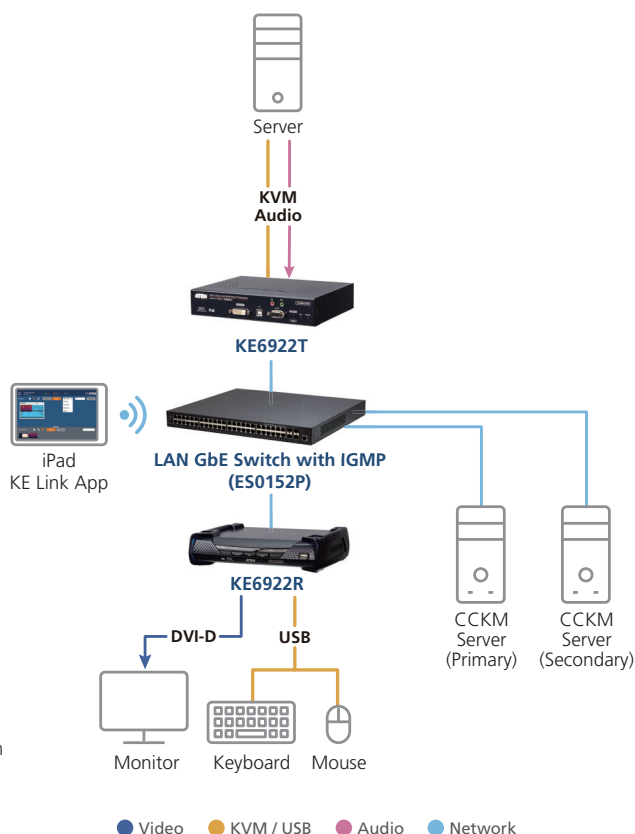
Advanced Features¹

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB, and serial sources independently
- Support both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE transmitters to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Note:

1. These advanced functions are supported when the KE transmitters are paired with KE receivers and managed by KE Matrix Management Software (CCKM).
2. Refer to www.aten.com for more details.
3. SFP modules are required for fiber network connection. Refer to page 5-39 for details.
4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note:

- *Refer to page 5-37 for details.
- **Power can be supplied through a PoE Network Switch (no need of a power adapter).

Specifications

	KE6920R	KE6922R	KE6920T	KE6922T
Connectors				
USB Port	2 x USB Type A Female (White)		N/A	
Console Ports	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)			
KVM Ports	N/A		1 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	
Power	2 x DC Jack (Black)			
LAN Ports	1 x RJ-45 (Black)	1 x RJ-45 (Black, PoE)	1 x RJ-45 (Black)	1 x RJ-45 (Black, PoE)
	2 x SFP Slot			
LEDs				
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)			
Power	1 (Blue)			
Local	1 (Green)			
Remote	1 (Green)			
Video Resolution	Up to 2560 x 2048 @ 50Hz / 2560 x 1600 @ 60Hz / 2048 x 2048 @60Hz			
Emulation				
Keyboard / Mouse	USB			
Power Consumption	DC5V: 8.86W		DC5V: 10.87W	
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	1.27 kg (2.8 lb)	1.30 kg (2.86 lb)	1.15 kg (2.53 lb)	1.18 kg (2.6 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 in.)		21.50 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.)	
Carton Lot	3 pcs			

Included Accessories

	KE6920 / KE6922
Power Adapters ¹	2
USB DVI-D KVM Cable ²	•
Mounting Kit ²	•

Note:

1. This accessory is only included with KE6920 model.
2. These accessories are only included with transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
SFP Modules	2A-136G (Multi-Mode) 2A-137G (Single-Mode)	5-39
USB DVI-D Dual Link KVM Cable	2L-7D002UD (1.8 m) 2L-7D003UD (3 m) 2L-7D005UD (5 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for details.	
2X-031G Single Rack Mount Kit		

KE6910 / KE6912

2K DVI-D Dual Link KVM over IP Extender /
2K DVI-D Dual Link KVM over IP Extender with PoE



KE6912



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Exclusive Features for ATC Industry such as 2K x 2K video resolution (2048 x 2048 @ 60Hz) support, **Adaptive Fast Switching, Boundless Switching, Authentication Lock, Connection Redundancy, and Disconnection Alert**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Supports Power over Ethernet (PoE) function (KE6912 only) as PD (Powered Device)
- Local console for emergency operation
- “Push” and “Pull” – share content instantly by just one click
- **Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI**

Note: *Refer to page 5-3 for details.

Exclusive Features for ATC Industry¹

- Supports 2K x 2K video resolution (2048 x 2048 @ 60Hz); 24-bit color depth
- Adaptive Fast Switching – automatically fast switches between different Tx video resolutions on a Rx display within 0.3 second
- Boundless Switching - simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- “Push” and “Pull” – share content instantly to/from a single Rx or video wall by just one click
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Hardware

- Supports DVI-D Dual Link video resolutions up to 2560 x 1600 @60Hz and 2560 x 2048 @50Hz
- Supports stereo speakers and stereo microphone
- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable – Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit²
 - (2) 2X-031G Single Rack Mount Kit²
- Network Redundancy – Supports connection via Gigabit Ethernet port (RJ-45) or SFP port for failover
- Support 1Gbps SFP fiber module expansions³ up to 10 km
- Power Redundancy – Dual DC Jack (KE6910 only)
- Supports Power over Ethernet (PoE) function – compliant with the IEEE 802.3at standard (KE6912 only)
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions (KE6910 only)

Management

- Dual console operation – controls your system from both the transmitter’s and receiver’s keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings to prevent video compatibility issue caused by different monitors
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth

- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

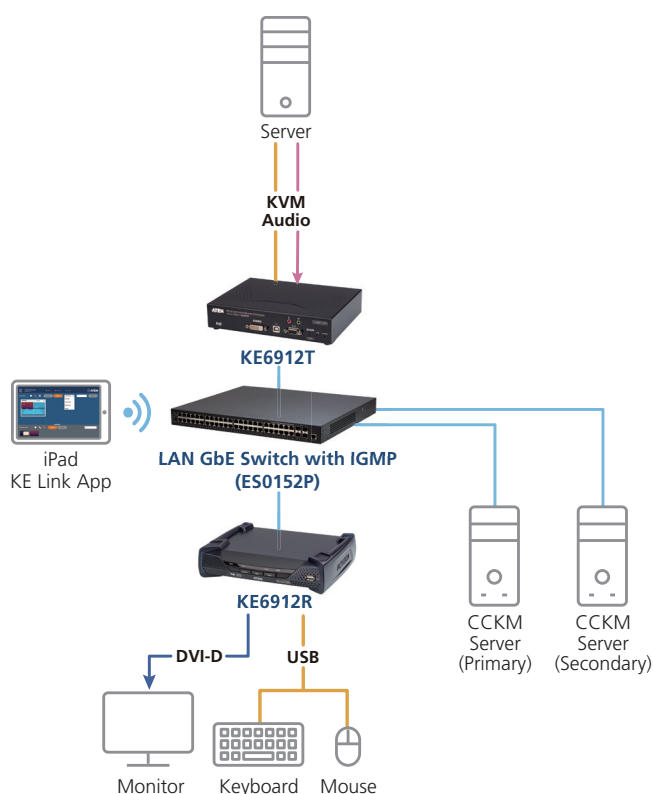
Advanced Features¹

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB, and serial sources independently
- Support both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE transmitters to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴

Note:

1. These advanced functions are supported when the KE transmitters are paired with KE receivers and managed by KE Matrix Management Software (CCKM).
2. Refer to www.ATEN.com for more details.
3. SFP modules are required for fiber network connection. Refer to page 5-39 for details.
4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note:

*Refer to page 5-37 for details.

**Power can be supplied through a PoE Network Switch (no need of a power adapter).

Specifications

	KE6910R	KE6912R	KE6910T	KE6912T
Connectors				
USB Port	2 x USB Type A Female (White)		N/A	
Console Ports	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)			
KVM Ports	N/A		1 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	
Power	2 x DC Jack (Black)	1 x DC Jack (Black)	2 x DC Jack (Black)	1 x DC Jack (Black)
LAN Ports	1 x RJ-45 (Black)	1 x RJ-45 (Black, PoE)	1 x RJ-45 (Black)	1 x RJ-45 (Black, PoE)
	1 x SFP Slot			
LEDs				
10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)			
Power	1 (Blue)			
Local	1 (Green)			
Remote	1 (Green)			
Video Resolution	Up to 2560 x 2048 @ 50Hz / 2560 x 1600 @ 60Hz / 2048 x 2048 @ 60Hz			
Emulation				
Keyboard / Mouse	USB			
Power Consumption	DC5V: 9.02W	DC48V: 11.27W	DC5V: 10.02W	DC48V: 12.53W
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	1.26 kg (2.78 lb)	1.28kg (2.82 lb)	1.13 kg (2.49 lb)	1.17 kg (2.58 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 in.)		21.5 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.)	
Carton Lot	3 pcs			

Included Accessories

	KE6910 / KE6912
Power Adapters ¹	2
USB DVI-D KVM Cable ²	•
Mounting Kit ²	•

Note:

1. This accessory is only included with KE6910 model.

2. These accessories are only included with transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
SFP Modules	2A-136G (Multi-Mode) 2A-137G (Single-Mode)	5-39
USB DVI-D Dual Link KVM Cable	2L-7D02UD (1.8 m) 2L-7D03UD (3 m) 2L-7D05UD (5 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for details.	
2X-031G Single Rack Mount Kit		

KE6900AiT / KE6940AiT

DVI-I Single Display KVM over IP Transmitter with Internet Access /
DVI-I Dual Display KVM over IP Transmitter with Internet Access



KE6940AiT



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports digital or analog video output – fully compliant with DVI specifications
- Local console for emergency operation
- **Supports recording of remotely-accessed computer operations using CCVSR¹**
- “Push” and “Pull” – share content instantly by just one click
- Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Supports power/network failover
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CCKM)² allows users to easily administer all KE devices with an intuitive web based GUI

Note: 1. Refer to page 9-6 for details.

2. Refer to page 5-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24-bit color depth
- Supports recording of remotely-accessed computer operations using CCVSR
- Supports interlaced video format
- Supports stereo speakers and microphone
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable - Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Supports 1Gbps SFP fiber module expansions² up to 10 km
- Supports power/network failover – dual DC jacks for power redundancy and 1 RJ45 & 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions

Management

- Integration with ATEN CCVSR Video Session Recording Software
- Dual console operation – control your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features³

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Supports recording of remotely-accessed computer operations using CCVSR
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

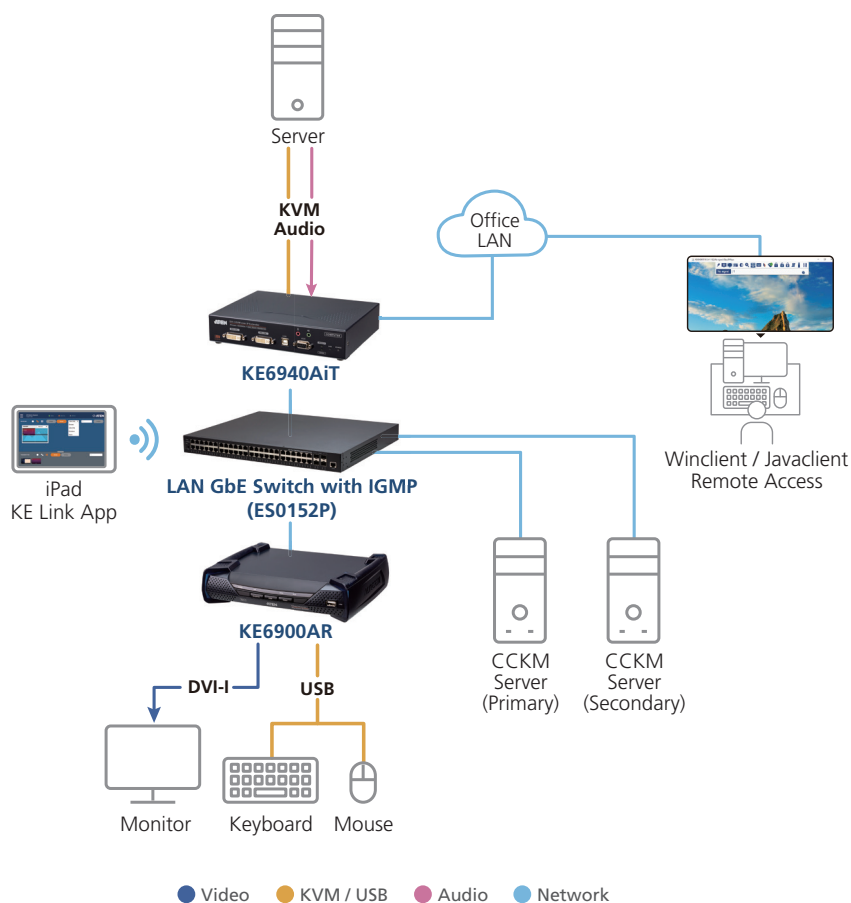
Note: 1. Refer to www.aten.com for more details.

2. SFP modules are required for fiber network connection. Refer to page 5-39 for details.

3. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM)

4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

Specifications

	KE6900AiT	KE6940AiT
Connectors		
Console Ports	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	1 x USB Type B Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	1 x USB Type B Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Power	2 x DC Jack (Black)	
LAN Ports	2 x RJ-45 (Black) 1 x SFP Slot	
Internet Ports	1 x RJ-45 (Black)	
LEDs		
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)	
Power	1 (Blue)	
Local	1 (Green)	
Remote	1 (Green)	
Video Resolution	Up to 1920 x 1200 @ 60Hz	
Emulation		
Keyboard / Mouse	USB	
Power Consumption	DC12V:12W	DC12V:18.36W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 95% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	1.16 kg (2.56 lb)	1.18 kg (2.6 lb)
Dimensions (L x W x H)	21.50 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.)	
Carton Lot	3 pcs	

Included Accessories

	KE6900AiT / KE6940AiT
Power Adapters	1
USB DVI-D KVM Cable*	•
Mounting Kit*	•
DVI-D Cable*	• (KE6940AiT only)

Note:

*This accessory is only included with KE transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB DVI-D Single Link KVM Cable	2L-7D02U (1.8 m); 2L-7D03U (3 m); 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cable	2L-7D02UI (1.8 m); 2L-7D03UI (3 m)	17-10
USB VGA-DVI KVM Cable	2L-7DX2U (1.8 m); 2L-7DX3U (3 m)	17-11
USB HDMI-DVI KVM Cable	2L-7D02DH (1.8 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for more details.	
2X-031G Single Rack Mount Kit		

KE6900A / KE6940A

DVI-I Single Display KVM over IP Extender / DVI-I Dual Display KVM over IP Extender



KE6940A



Front



Rear



Highlights

- **Extremely low latency – less than 5 ms of latency between server and operator during operation**
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports digital or analog video output – fully compliant with DVI specifications
- Local console for emergency operation
- “Push” and “Pull” – share content instantly by just one click
- Supports power/network failover
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Supports Dual Display Mode (KE6940A only)
- Supports two video outputs as different channels (KE6940AT only)
- Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI

Note: *Refer to page 5-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24-bit color depth
- Supports interlaced video format
- Supports stereo speakers and microphone
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable - Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Supports 1Gbps SFP fiber module expansions² up to 10 km
- Supports power/network failover – dual DC jacks for power redundancy and 1 RJ45 & 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions

Management

- Dual console operation – control your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features³

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

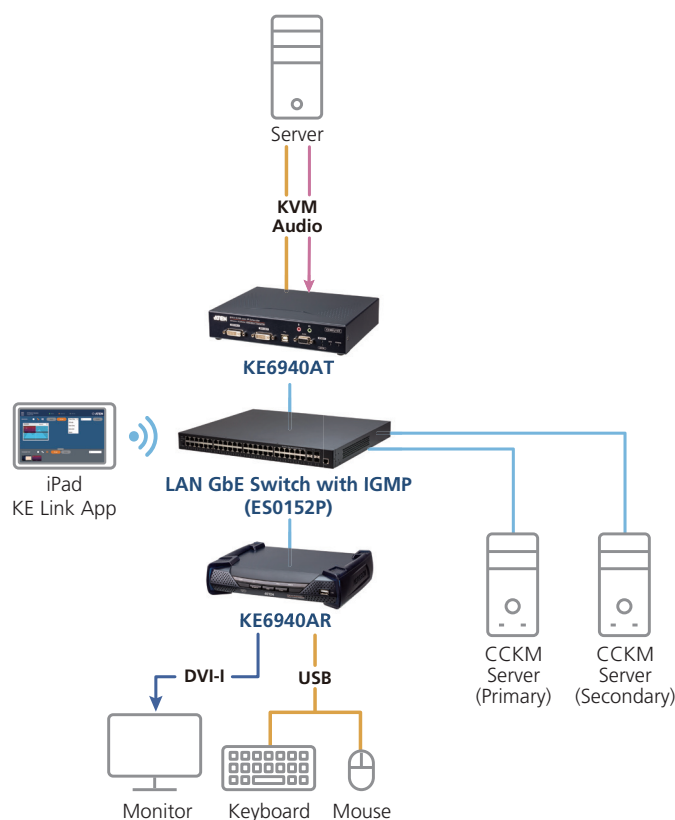
Note: 1. Refer to www.ATEN.com for more details.

2. SFP modules are required for fiber network connection. Refer to page 5-39 for details.

3. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM)

4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: * Refer to page 5-37 for details.

● Video ● KVM / USB ● Audio ● Network

Specifications

	KE6900AR	KE6940AR	KE6900AT	KE6940AT
Connectors				
USB Port	2 x USB Type A Female (White)		N/A	
Console Ports	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	N/A		1 x USB Type B Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	1 x USB Type B Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Power	2 x DC Jack (Black)			
LAN Ports	1 x RJ-45 (Black) 1 x SFP Slot			
LEDs				
Link 10 / 100 / 1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)			
Power	1 (Blue)			
Local	1 (Green)			
Remote	1 (Green)			
Video Resolution	Up to 1920 x 1200 @ 60Hz			
Emulation				
Keyboard / Mouse	USB			
Power Consumption	DC5V:6.35W	DC5V:8.51W	DC5V:7.95W	DC5V:12.2W
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	1.30 kg (2.86 lb)	1.31 kg (2.89 lb)	1.15 kg (2.53 lb)	1.17 kg (2.58 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 in.)		21.50 x 16.33 x 4.18 cm (8.46 x 6.41 x 1.65 in.)	
Carton Lot	3 pcs			

Included Accessories

	KE6900A / KE6940A
Power Adapters	1
USB DVI-D KVM Cable*	•
Mounting Kit*	•
DVI-D Cable*	• (KE6940A only)

Note:

*This accessory is only included with KE transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB DVI-D Single Link KVM Cable	2L-7D02U (1.8 m); 2L-7D03U (3 m); 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cable	2L-7D02UI (1.8 m); 2L-7D03UI (3 m)	17-10
USB VGA-DVI KVM Cable	2L-7DX2U (1.8 m); 2L-7DX3U (3 m)	17-11
USB HDMI-DVI KVM Cable	2L-7D02DH (1.8 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for more details.	
2X-031G Single Rack Mount Kit		

KE6900 / KE6940

DVI-I Single Display KVM over IP Extender /
DVI-I Dual Display KVM over IP Extender



• KE6900



• KE6940

KE6940



Front



Rear



Highlights

- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports digital or analog video output – fully compliant with DVI specifications
- Local console for emergency operation
- “Push” and “Pull” – share content instantly by just one click
- Supports Dual Display Mode (KE6940 only)
- Supports two video outputs as different channels (KE6940T only)
- Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- **Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI**

Note: *Refer to page 5-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24-bit color depth
- Supports interlaced video format
- Supports stereo speakers and microphone
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable - Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions

Management

- Dual console operation – control your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features²

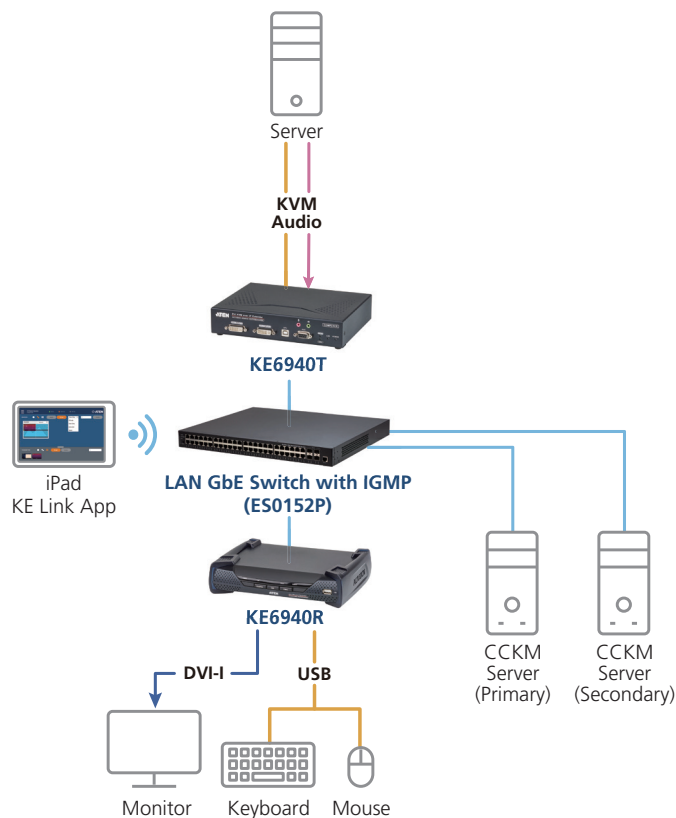
- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button³
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Note: 1. Please refer to www.aten.com for more details.

2. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM)

3. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 5-39 for details.

Setup >



Note: *Refer to page 5-37 for details.

Specifications

	KE6900R	KE6940R	KE6900T	KE6940T
Connectors				
USB Port	2 x USB Type A Female (White)		N/A	
Console Ports	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	N/A		1 x USB Type B Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	1 x USB Type B Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Power	1 x DC Jack (Black)			
LAN Ports	1 x RJ-45 (Black)			
LEDs				
Link 10/100/1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)			
Power	1 (Blue)			
Local	1 (Green)			
Remote	1 (Green)			
Video Resolution	Up to 1920 x 1200 @ 60Hz			
Emulation				
Keyboard / Mouse	USB			
Power Consumption	DC 5V: 6.90W	DC 5V: 9.53W	DC 5V: 7.34W	DC 5V: 8.91W
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	1.25 kg (2.75 lb)		1.14 kg (2.51 lb)	1.15 kg (2.53 lb)
Dimensions (L x W x H)	22.75 x 17.16 x 5.48 cm (8.96 x 6.76 x 2.16 in.)		21.50 x 16.29 x 4.18 cm (8.46 x 6.41 x 1.65 in.)	
Carton Lot	3 pcs			

Included Accessories

	KE6900 / KE6940
Power Adapters	2
USB DVI-D KVM Cable*	•
Mounting Kit*	•
DVI-D Cable*	• (KE6940 only)

Note:

*This accessory is only included with KE transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB DVI-D Single Link KVM Cable	2L-7D02U (1.8 m); 2L-7D03U (3 m); 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cable	2L-7D02UI (1.8 m); 2L-7D03UI (3 m)	17-10
USB VGA-DVI KVM Cable	2L-7DX2U (1.8 m); 2L-7DX3U (3 m)	17-11
USB HDMI-DVI KVM Cable	2L-7D02DH (1.8 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for details.	
2X-031G Single Rack Mount Kit		

KE6900ST

DVI-D Single Display Slim KVM Over IP Transmitter



KE6900ST



Front



Rear



Highlights

- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Slim, light and fanless design
- “Push” and “Pull” – share content instantly by just one click
- Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- **Centralized KE series management software – KE Matrix Management Software (CCKM)* allows users to easily administer all KE devices with an intuitive web based GUI**

Note: *Refer to page 5-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24-bit color depth
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable - Mounting options: VE-RMK 1U Extender Rack Mount Kit¹

Management

- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- OSD (On Screen Display) on the Receiver configures both Tx/Rx units
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- USB Storage Transmission mode enhances data transmission performance, ideally for file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

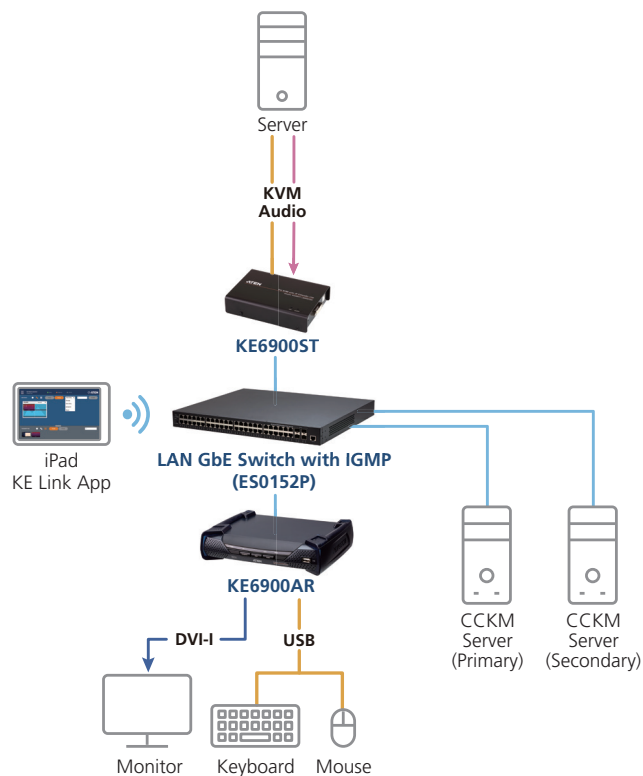
Advanced Features²

- KE Link app – allows you instant link transmitters and receivers, and perform real-time port and profile switching on an iPad
- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button³
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status

Note: 1. Refer to www.aten.com for more regarding the VE-RMK 1U Extender Rack Mount Kit.

2. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM).

3. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 3-36 for details.



Note: *Refer to page 5-37 for details.

● Video ● KVM / USB ● Audio ● Network

Specifications

	KE6900ST
Connectors	
KVM Ports	1 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x DB-9 Female (Black)
Power	1 x DC Jack (Black)
LAN Ports	1 x RJ-45 (Black)
LEDs	
10/100/1000 Mbps	1 (10: Orange / 100: Orange & Green / 1000: Green)
Power	1 (Blue)
Video Resolution	Up to 1920 x 1200 @ 60Hz
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC 5V: 3.35W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.43 kg (0.95 lb)
Dimensions (L x W x H)	14.39 x 10.30 x 3.00 cm (5.67 x 4.06 x 1.18 in.)
Carton Lot	5 pcs

Included Accessories

	KE6900ST
Power Adapter	•
USB DVI-D KVM Cable	•
Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB DVI-D Single Link KVM Cable	2L-7D02U (1.8 m); 2L-7D03U (3 m); 2L-7D05U (5 m)	17-10
USB DVI-D Dual Link KVM Cable	2L-7D02UD (1.8 m); 2L-7D03UD (3 m); 2L-7D05UD (5 m)	17-11
USB HDMI-DVI KVM Cable	2L-7D02DH (1.8 m)	17-11
VE-RMK 1U Extender Rack Mount Kit	*Please refer to www.aten.com for more details.	

ES0152P

52-Port GbE PoE Managed Switch

ES0152P



Front



Rear



Highlights

- Auto detects KE / VE89 Series devices
- Plug-n-play without additional settings
- Supports IGMP v1/v2/v3 Snooping and IGMP v1/v2 Querier
- Support 48 Gigabit Ethernet ports and 4 SFP uplink ports (10Gbps)
- High-performance Gigabit Ethernet L2 access switches with 176 Gbps switching capacity – significantly improving the responsiveness of applications and file transfer times.
- PoE Port configuration and scheduling
- Supports 802.3at/802.3af with PoE power capacity up to 740W

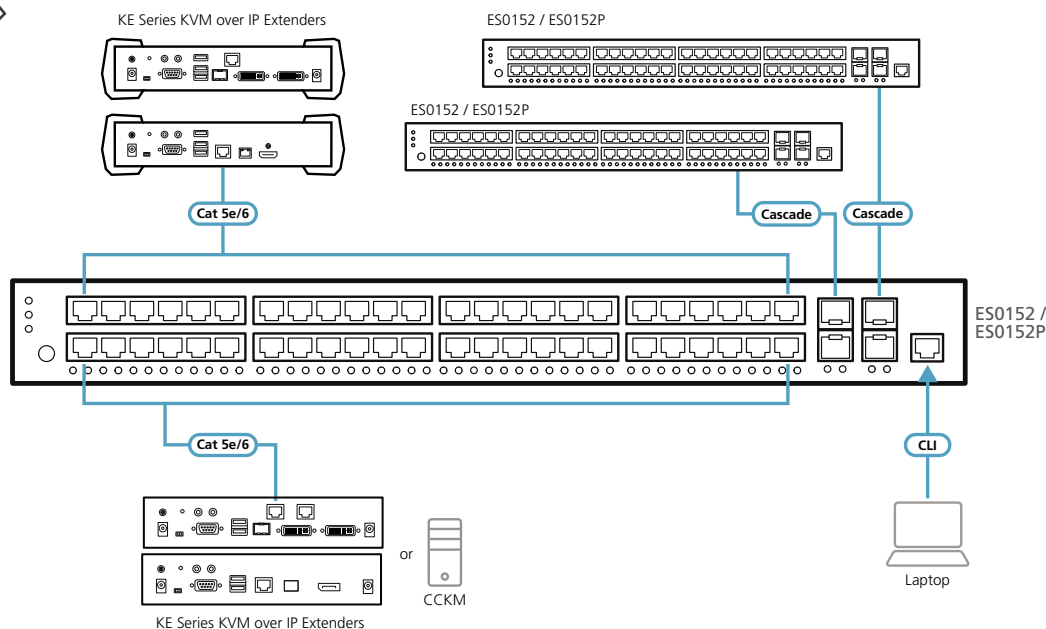
Hardware

- Supports 48 Gigabit Ethernet ports and 4 SFP uplink ports (10Gbps)
- High-performance Gigabit Ethernet L2 access switch with 176 Gbps switching capacity - significantly improve the responsiveness of applications and file transfer times
- Supports IEEE 802.1w Rapid Spanning Tree Protocol – ensuring a faster recovery from failed links and enhancing overall network stability and reliability
- 802.3af PoE/ 802.3at PoE+ Port configuration and scheduling

Management

- Auto detects KE / VE89 series devices
- Plug-and-play without additional settings
- Supports IGMP Snooping Fast Leave
- Supports Flow Control
- Supports IGMP v1/v2/v3 Snooping and IGMP v1/v2 Querier
- Built in Device Management System (DMS) to provide an overview of all connected KE/VE89 devices for management
- IPv4/IPv6 Management
- Comprehensive QoS – allowing the marking, classification, and scheduling of up to four traffic types across the network
- Enhanced Security – Port Security limits the total number of devices using a switch port and protects against MAC flooding attacks

Setup >



Specifications

	ES0152P
Connectors	
RJ-45 10/100/1000 Ports	48
SFP Uplink Ports	4
Console Ports	1 x RJ-45
Performance	
Switching Capacity	176 Gbps
Forwarding Rate	130.95 Mpps
Jumbo Frames	10240 Bytes
Certification	
	FCC Class A, CE
Maximum Input Power Rating	
	100-240V AC, 50-60 Hz
Power Consumption	
	AC110V/885.36W; AC220V/858.09W (PoE on)
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	10 – 90% RH, Non-condensing
Physical Properties	
Rack Space	19"
Housing	Metal
Weight	5.60 kg (12.33 lb)
Dimensions (L x W x H)	44.20 x 37.50 x 4.40 cm (17.4 x 14.76 x 1.73 in.)
PoE	
Standard compliance	802.3af PoE / 802.3at PoE+
Number of Ports That Support PoE/ PoE+	48
Max. PoE Power budget per port	PoE : 15.4W/ PoE+: 30.0W
Total PoE Power budget	740W
Carton Lot	
	2 pcs

Included Accessories

	ES0152P
Power Cord	•
Mounting Kit	•
Console Cable	•

Optional Accessories

Description	Part No.
SFP+ Module	2A-141G / 2A-142G

2A-141G

10G Multi-Mode/300M Fiber SFP+ Module



2A-142G

10G Single-Mode/10KM Fiber SFP+ Module

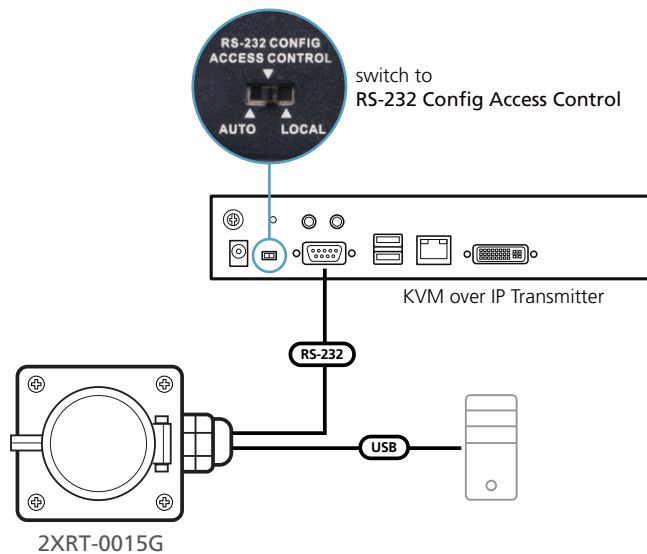


	2A-141G	2A-142G
Fiber Optics		
Data Rate	10 Gbps	
Operating Distance	300 m	10 km
Fiber Type	Multi Mode	Single Mode
DDM	Yes	
Environmental		
Operating Temperature	0 – 70°C	
Storage Temperature	-40 – 85°C	
Physical Properties		
Weight	0.02 kg (0.04 lb)	
Dimensions (L x W x H)	5.59 x 1.46 x 1.30 cm (2.2 x 0.57 x 0.51 in.)	
Carton Lot	10 pcs	

Accessories for KE Series

2XRT-0015G

KVM over IP Access Control Box



Highlights

- Users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button
- Plug-and-Play – no software installation required on either side
- USB bus-powered design – no external power adapter required
- Multiple connectors (PS/2, USB, RJ-11, RS-232) for future extension
- Cable length reaches 5m for more flexible installation

Function	2XRT-0015G
Connectors	
Link	USB, PS/2, RJ-11, RS-232
LEDs	
Status	Pressed: Red Light Released: Dim
Physical Properties	
Housing	Plastic
Weight	0.43 kg (0.95 lb)
Dimensions (L x W x H)	7.20 x 10.39 x 11.00 cm (2.83 x 4.09 x 4.33 in.)
Carton Lot	16 pcs

2A-136G

1.25G Multi-Mode/550M Fiber SFP Module



Highlights

- 1 GbE connectivity up to 550 meters
- Operates at a nominal wavelength of 850 nm
- Hot pluggable
- LC Type with DDM

2A-137G



1.25G Single-Mode/10KM Fiber SFP Module



Highlights

- 1 GbE connectivity up to 10 kilometers
- Operates at a nominal wavelength of 1310 nm
- Hot pluggable
- LC Type with DDM

	2A-136G	2A-137G
Fiber Optics		
Data Rate	1.25 Gbps	
Operating Distance	550 m	10 km
Fiber Type	Multi Mode	Single Mode
DDM	Yes	
Environmental		
Operating Temperature	0 – 70°C	
Storage Temperature	-40 – 85°C	
Physical Properties		
Weight	0.02 kg (0.04 lb)	
Dimensions (L x W x H)	5.59 x 1.46 x 1.30 cm (2.2 x 0.57 x 0.51 in.)	
Carton Lot	10 pcs	

Images	Part No.	Product Name	Compatible Products
	2X-021G	Dual Rack Monut Kit	Compatible with all KE/KX models
	2X-031G	Single Rack Monut Kit	Compatible with all KE/KX models

KVM Extenders

ATEN KVM Extenders offer a full range of options that allow you to extend the distance between your console and the computers in your installation by up to 20km. They are ideal for all applications that require access to computers in remote and secure locations.



- **HDBaseT™**

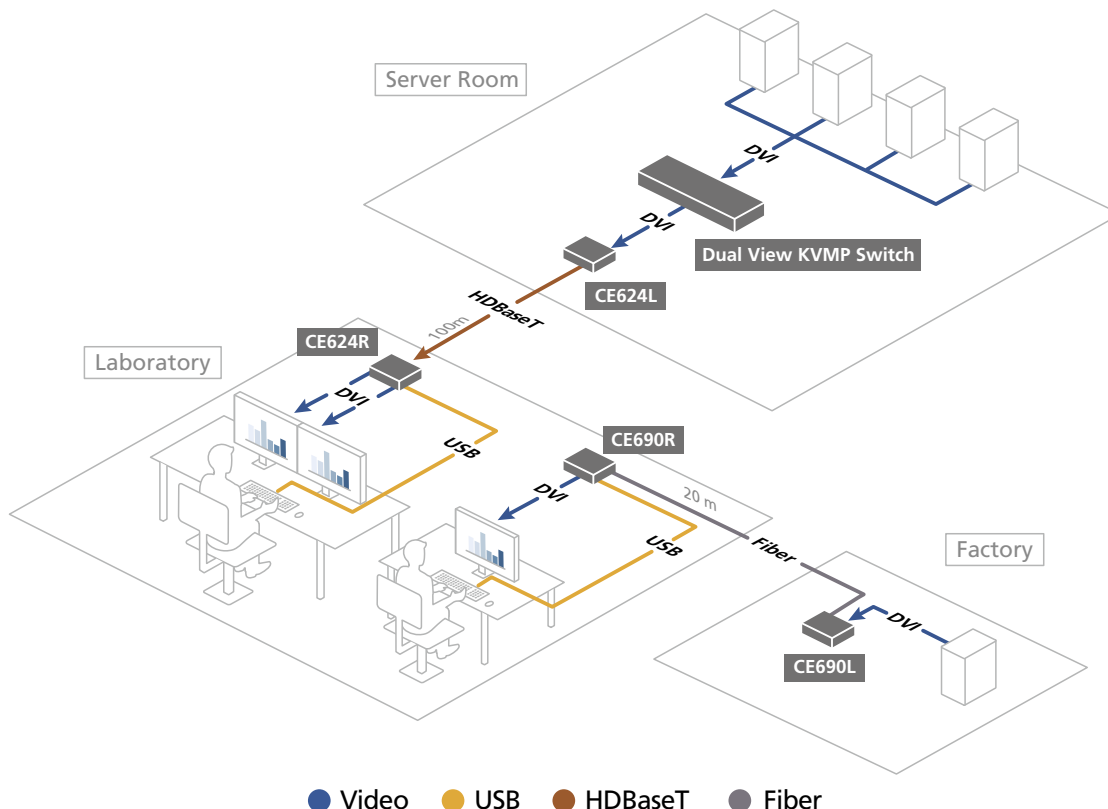
HDBaseT™ technology makes the distribution of high-quality multimedia content over a long distance simple and effective without compromising performance or quality. It enables reduction in cable clutter and allows for long-distance signal transmission free from compression and latency, making HDBaseT a vital technology when it comes to commercial grade Pro AV installations across small / mid sized areas.

- **Fiber Optic**

ATEN Fiber Optic KVM Extenders utilize single-mode or multi-mode optical fiber cables to extend AV, RS-232, or USB signals at extremely long distances up to 20km with zero latency as well as resistance to environmental interference.

- **Cat5 / Cat6**

ATEN provides a wide range of long-distance KVM extension solutions that connect via standard Cat5e/6/6a cables, including DVI and VGA models.



Feature Comparison

HDBaseT™

Model No.		CE924	CE920	CE820
Distance		Standard: 100 m Long Reach Mode: 150 m		
HDBaseT		HDBaseT 2.0	HDBaseT 2.0	HDBaseT 2.0
Interface	Unit to Unit	Cat 6 / 6a / 2L-2910 x 1		
	Keyboard, Mouse	USB	USB	USB
	Video	DisplayPort	DisplayPort	HDMI
Dual View		•	N/A	N/A
Audio		• (DisplayPort / Stereo)	• (DisplayPort / Stereo)	• (HDMI / Stereo)
USB Channel		•	•	•
Ethernet Channel		N/A	•	•
RS-232 Channel		•	•	•
Local Console		N/A	N/A	N/A

Model No.		CE624	CE620	CE611	CE610A
Distance		Standard: 100 m Long Reach Mode: 150 m		100 m	100 m
HDBaseT		HDBaseT 2.0	HDBaseT 2.0	HDBaseT	HDBaseT
Interface	Unit to Unit	Cat 6 / 6a / 2L-2910 x 1		Cat 6 / 6a / 2L-2910 x 1	Cat 6 / 6a / 2L-2910 x 1
	Keyboard, Mouse	USB	USB	USB	USB
	Video	DVI-D (Single Link)	DVI-D (Single Link)	DVI-D (Single Link)	DVI-D (Single Link)
Dual View		•	N/A	N/A	N/A
Audio		• (Stereo)	• (Stereo)	• (Stereo)	N/A
USB Channel		•	•	•	•
Ethernet Channel		N/A	N/A	N/A	N/A
RS-232 Channel		•	•	•	N/A
Local Console		N/A	N/A	N/A	N/A

Fiber Optic

Model No.		CE680	CE690
Distance		600 m	20 km
Interface	Unit to Unit	Fiber optic x 1	Fiber optic x 1
	Keyboard, Mouse	USB	USB
	Video	DVI-D (Single Link)	DVI-D (Single Link)
Dual View		N/A	N/A
Audio		• (Stereo)	• (Stereo)
Automatic Gain Control		N/A	N/A
Manual Gain Control		N/A	N/A
USB 2.0 Peripheral		N/A	N/A
USB Touch Panel		•	•
RS-232 Channel		•	•
Local Console		•	•

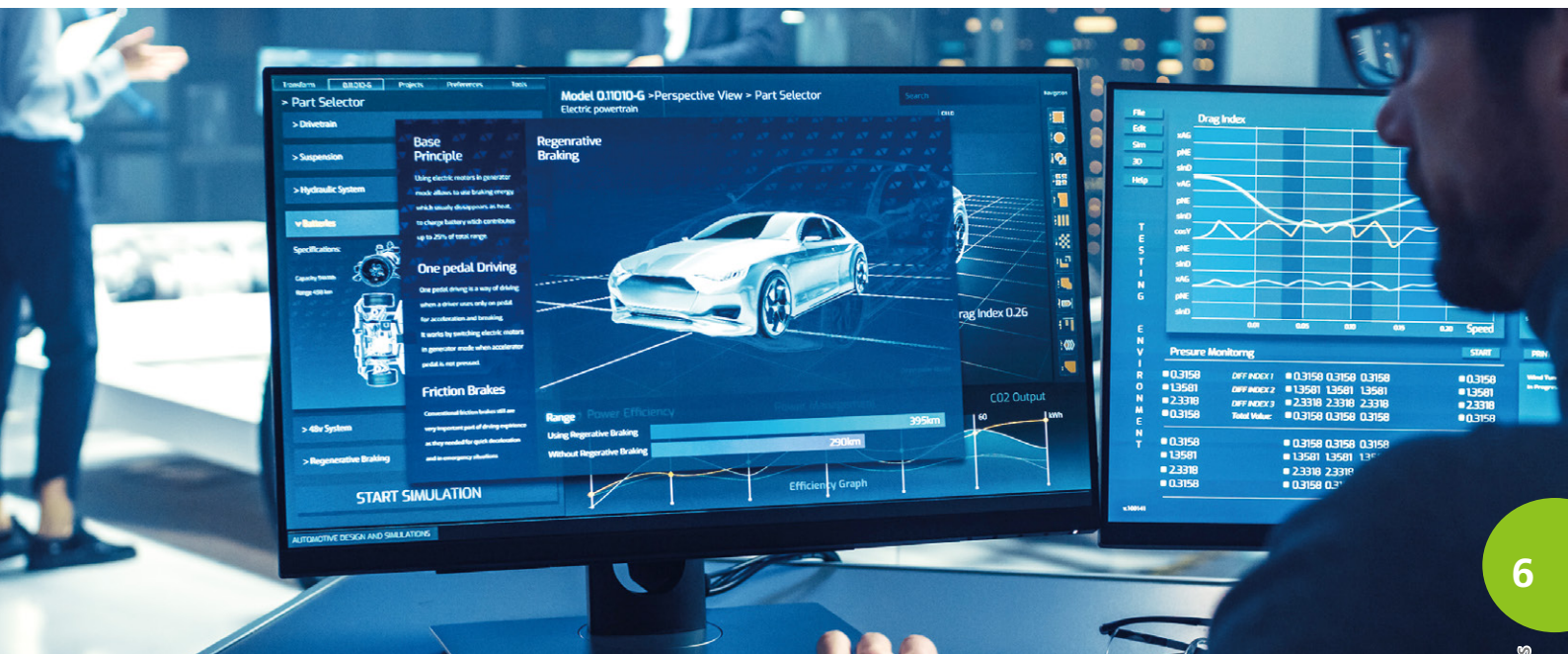
Cat5 / Cat6 – DVI

Model No.		CE604	CE600
Distance		60 m	60 m
Interface	Unit to Unit	Cat 5e x 1 (or 2)	Cat 5e x 1 (or 2)
	Keyboard, Mouse	USB	USB
	Video	DVI-D (Single Link)	DVI-D (Single Link)
Dual View		•	N/A
Audio		• (Stereo)	• (Stereo)
Automatic Gain Control		N/A	N/A
Manual Gain Control		•	•
USB 2.0 Peripheral		N/A	N/A
USB Touch Panel		N/A	N/A
RS-232 Channel		•	•
Local Console		N/A	N/A

Cat5 / Cat6 – VGA

Model No.		CE800B	CE774	CE775	CE770	CE750A
Distance		250 m	150 m	300 m	300 m	200 m
Interface	Unit to Unit	Cat 5e x 1	Cat 5e x 2	Cat 5e x 2	Cat 5e x 1	Cat 5e x 1
	Keyboard, Mouse	USB	USB	USB	USB	USB
	Video	VGA	VGA	VGA	VGA	VGA
Dual View		N/A	•	•	N/A	N/A
Audio		• (Stereo)	• (Stereo)	• (Stereo)	• (Stereo)	• (Stereo)
Automatic Gain Control		•	•	•	•	•
Manual Gain Control		•	•	•	•	•
USB 2.0 Peripheral		•	N/A	N/A	N/A	N/A
USB Touch Panel		N/A	N/A	N/A	N/A	N/A
RS-232 Channel		N/A	•	•	•	•
Patented Deskew		N/A	N/A	•	•	N/A
Local Console		•	•	•	•	•

Model No.		CE700A	CE100	CE350	CE370	CE250A
Distance		150 m	100 m	150 m	300 m	150 m
Interface	Unit to Unit	Cat 5e x 1	Cat 5e x 1	Cat 5e x 1	Cat 5e x 1	Cat 5e x 1
	Keyboard, Mouse	USB	USB	PS/2	PS/2	PS/2
	Video	VGA	VGA	VGA	VGA	VGA
Dual View		N/A	N/A	N/A	N/A	N/A
Audio		N/A	N/A	• (Stereo)	• (Stereo)	N/A
Automatic Gain Control		•	N/A	•	•	•
Manual Gain Control		N/A	•	•	•	N/A
USB 2.0 Peripheral		N/A	N/A	N/A	N/A	N/A
USB Touch Panel		N/A	N/A	N/A	N/A	N/A
RS-232 Channel		N/A	N/A	•	•	N/A
Patented Deskew		N/A	N/A	N/A	•	N/A
Local Console		•	N/A	•	•	•



Benefits of ATEN HDBaseT KVM Extenders

ATEN HDBaseT™ KVM extenders provide a simple and efficient solution for transmitting Ultra HD signals, audio, 100Mb Ethernet, power, and control signals over a single cable up to 150m. A wide range of models are available, with video interface support for DisplayPort, HDMI, and DVI.



Simplified Cabling

Implements HDBaseT™ extension technology to connect transmitter and receiver units over one single Cat 6/6a cable



Outstanding USB Compatibility

Tested compatible with a multitude of USB peripheral devices.



Long-Distance Transmission

Delivers uncompressed 4K video & audio using one Cat 6 / 6a cable up to 100 - 150 m



Anti-jamming Design

Resists signal interference during high-quality video transmission



Flexible Control

Provides multiple control signals: CEC, RS-232, Ethernet, and USB2.0



POH (Power over HDBaseT™)

Supplies power from the Power Source Equipment (PSE) to the Power Device (PD) over a long distance via one Cat 6 / 6a cable

CE924

USB DisplayPort Dual View HDBaseT 2.0 KVM Extender (4K@100m for Single View)



Front

• CE924L



• CE924R



Rear

• CE924L



• CE924R



Features

- Allows DisplayPort Dual View access to a computer and KVM control from a remote console
- Supports HDBaseT 2.0 technology - Extends video, audio, USB, RS-232, and Ethernet signals via a single Cat6 / 6a / 2L-2910 Cat 6 cable - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions - Status detection and LED indication for HDBaseT™ signal transmission on remote unit
- EDID Buffer for smooth power-up and the highest quality display
- Single category cable to transmit AV and control signal
 - HDBaseT Standard mode up to 4K @ 100 m (Cat 6 / 6a / 2L-2910); (for single view only; dual-view resolution up to 1080p)
 - HDBaseT Long-Reach mode up to 1080P @ 150 m; (for single view only; dual-view resolution up to 720p)
- Long Reach mode switch – switches between HDBaseT™ Standard and Long Reach modes in a snap
- USB 2.0 full speed ports – ensures fast transmission speeds for peripherals; 4 ports USB hub on receiver
- HDCP Compatible
- Supports individual 2-channel stereo audio for high-quality audio applications
- Supports PC wakeup function via single pushbutton through RS-232 channel*
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

Specifications

	CE924L	CE924R
Connectors		
KVM Ports	2 xDisplayPort Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
Console Ports	N/A	2 x DisplayPort Female (Black) 4 x USB Type A Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack with locking	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Orange)	
Video Output	N/A	2 (Orange)
Video	Single view: Up to 4K @ 90 m (Cat 5e) / 100 m (Cat 6 / 6a / ATEN 2L-2910 Cat 6), 1080P @ 100 m (Cat 5e / 6 / 6a / ATEN 2L-2910 Cat 6) Dual-view: Up to 1080p @ 100 m (Cat 6 / 6a / ATEN 2L-2910 Cat 6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Power Consumption	DC 12V:7.03W	DC 12V:9.92W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.82 kg (1.81 lb)	0.85 kg (1.87 lb)
Dimensions (L x W x H)	17.42 x 15.94 x 2.88 cm (6.86 x 6.28 x 1.13 in.)	
Carton Lot	1 set	
Included Accessories	2x DisplayPort Cables (1.8 m); 1x Pink Audio Jack Cable Sets (1.8 m); 1x Green Audio Jack Cable Sets (1.8 m); 1x USB Type-A to Type-B Cable (1.8 m); 2x Power Adapters; 8x Foot Pads; 2x Mounting Kits	

Optional Accessories

Type	Part No. / Spec.	Page No.
DisplayPort Cables	2L-7D02DP (2 m), 2L-7D03DP (3 m)	17-11
HDBaseT Cat 6 Cable	2L-2910	6-25

CE920

USB DisplayPort HDBaseT 2.0 KVM Extender (4K@100m)



(CE920R)

Front

- CE920L



- CE920R



Rear

- CE920L



- CE920R



Features

- **Supports HDBaseT 2.0 technology**
 - Extends video, audio, USB, RS-232, and Ethernet signals via a single Cat6 / 6a / ATEN 2L-2910 Cat 6 cable
 - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions
 - Status detection and LED indication for HDBaseT signal transmission on remote unit
- EDID Buffer for smooth power-up and the highest quality display
- DisplayPort 1.1 (1080P, 4K); HDCP compatible
- **Long distance with superior video quality**
 - HDBaseT Standard mode up to 4K @ 100 m (Cat 6 / 6a / 2L-2910)
 - HDBaseT Long-Reach mode up to 1080P @ 150 m
- Long Reach mode switch – switches between HDBaseT Standard and Long Reach modes in a snap
- USB 2.0 full speed ports – ensure fast transmission speeds for peripherals
- Supports individual 2-channel stereo audio for high-quality audio applications
- Supports PC wakeup function via single pushbutton through RS-232 channel*
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

* The computer has to support Wake Up Ring for this function to work.

Specifications

	CE920L	CE920R
Connectors		
Console Ports	N/A	1 x DisplayPort Female (Black) 3 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) Note: The RJ-45 port is functional for device supporting the Ethernet port.
KVM Ports	1 x DisplayPort Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) Note: The RJ-45 port is functional for device supporting the Ethernet port.	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack with locking	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Orange)	
Video Output	N/A	1 (Orange)
Video	Up to 4K @ 90 m (Cat 5e) / 100 m (Cat 6 / 6a / ATEN 2L-2910 Cat 6), 1080P @ 100 m (Cat 5e / 6 / 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Power Consumption	DC5V: 3.99W	DC5V: 6.74W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.63 kg (1.39 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H)	18.20 x 12.19 x 2.87 cm (7.17 x 4.80 x 1.13 in.)	
Carton Lot	5 sets	
Included Accessories	1x DisplayPort Cable; 1x Microphone Cable; 1x Speaker Cable; 1x USB Type-A to Type-B Cable; 2x Mounting Kits; 2x Power Adapters; 8x Foot Pads	

Note: 1. DisplayPort v1.1 supports up to 4Kx2K @ 30Hz.

2. The CE920-AT supports Ethernet function, and the CE920-ATA does not.

Optional Accessories

Type	Part No. / Spec.	Page No.
DisplayPort Cables	2L-7D02DP (2 m), 2L-7D03DP (3 m)	17-11
HDBaseT Cat 6 Cable	2L-2910	6-25

CE820

USB HDMI HDBaseT 2.0 KVM Extender (4K@100m)



(CE820R)

Front

• CE820L



• CE820R



Rear

• CE820L



• CE820R



Features

- **Supports HDBaseT 2.0 technology**
 - Extends video, audio, USB, RS-232, and Ethernet signals via a single Cat6 / 6a / ATEN 2L-2910 Cat 6 cable
 - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions
 - Status detection and LED indication for HDBaseT signal transmission on remote unit
- EDID Buffer for smooth power-up and the highest quality display
- HDMI (3D, Deep Color, 1080P, 4K); HDCP 2.2 Compatible
- **Long distance with superior video quality**
 - HDBaseT Standard mode up to 4K @ 100 m (Cat 6 / 6a / 2L-2910)
 - HDBaseT Long-Reach mode up to 1080P @ 150 m
- Long Reach mode switch – switches between HDBaseT Standard and Long Reach modes in a snap
- USB 2.0 full speed ports – ensure fast transmission speeds for peripherals
- Supports individual 2-channel stereo audio for high-quality audio applications
- Supports PC wakeup function via single pushbutton through RS-232 channel*
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

* The computer has to support Wake Up Ring for this function to work.

Specifications

	CE820L	CE820R
Connectors		
Console Ports	N/A	1 x HDMI Female (Black) 3 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) Note: The RJ-45 port is functional for device supporting the Ethernet port.
KVM Ports	1 x HDMI Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) Note: The RJ-45 port is functional for device supporting the Ethernet port.	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack with locking	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Orange)	
Video Output	N/A	1 (Orange)
Video	Up to 4K@ 90 m (Cat 5e) / 100 m (Cat 6 / 6a / ATEN 2L-2910 Cat 6), 1080P @ 100 m (Cat 5e / 6 / 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Power Consumption	DC5V: 2.87W	DC5V: 5.37W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.63 kg (1.39 lb)	0.65 kg (1.43 lb)
Dimensions (L x W x H)	18.20 x 12.19 x 2.87 cm (7.17 x 4.80 x 1.13 in.)	
Carton Lot	5 sets	
Included Accessories	1x HDMI KVM Cable Set; 2x Power Adapters; 2x Mounting Kits	

Note: The CE820-AT supports Ethernet function, and the CE820-ATA does not.

Optional Accessories

Type	Part No. / Spec.	Page No.
HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11
HDBaseT Cat 6 Cable	2L-2910	6-25

CE624

USB DVI Dual View HDBaseT 2.0 KVM Extender (1920 x 1200@100m)



(CE624R)

Front

• CE624L



• CE624R



Rear

• CE624L



• CE624R



Features

- Allows **DVI Dual-view** access and KVM control to a computer from a remote console
- **Supports HDBaseT 2.0 technology**
 - Extends video, audio, USB, and RS-232 signals via a single Cat6 / 6a / ATEN 2L-2910 Cat 6 cable
 - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions
 - Status detection and LED indication for HDBaseT signal transmission on remote unit
- EDID Buffer for smooth power-up and the highest quality display
- **Long distance with superior video quality**
 - HDBaseT Standard mode up to 1920 x 1200 @ 100 m using Cat 6 / 6a / 2L-2910 (for single view only; dual-view resolution up to 1080p)
 - HDBaseT Long-Reach mode up to 1080p @ 150 m (for single view only; dual-view resolution up to 720p)
- Long Reach mode switch – switches between HDBaseT Standard and Long Reach modes in a snap
- USB 2.0 full speed ports – ensure fast transmission speeds for peripherals
- Supports 2-channel PCM digital audio – ensuring high quality audio applications
- Supports PC wakeup function via pushbutton or hotkey
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)
- HDCP compatible

Specifications

	CE624L	CE624R
Connectors		
Console Ports	N/A	2 x DVI-D Female (White) 3 x USB Type A Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	2 x DVI-D Female (White) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack with locking	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Orange)	
Video Output	N/A	2 (Orange)
Video	Single view: Up to 1600 x 1200 & 1920 x 1200@90m (Cat 5e) / 100m (cat 6/6a); 1080P@100m Dual view: Up to 1080p@100m	
Power Consumption	DC5V: 4.93W	DC5V: 7.2W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.80 kg (1.76 lb)	0.81 kg (1.78 lb)
Dimensions (L x W x H)	17.42 x 15.94 x 2.88 cm (6.86 x 6.28 x 1.13 in.)	
Carton Lot	1 set	
Included Accessories	2x DVI-D Cables; 2x Audio Cable Sets; 1x USB Cable; 2x Power Adapters; 8x Food Pads; 2x Mounting Kits	

Optional Accessories

Type	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	6-25

CE620

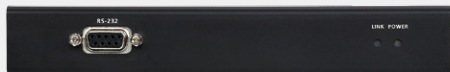
USB DVI HDBaseT 2.0 KVM Extender (1920 x 1080@150m)



(CE620R)

Front

• CE620L



• CE620R



Rear

• CE620L



• CE620R



Features

- **Supports HDBaseT 2.0 technology**
 - Extends video, audio, USB, and RS-232 signals via a single Cat6 / 6a / ATEN 2L-2910 Cat 6 cable
 - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions
 - Status detection and LED indication for HDBaseT signal transmission on remote unit
- **EDID Buffer** for smooth power-up and the highest quality display
- **Long distance with superior video quality**
 - HDBaseT Standard mode up to 1920 x 1200 @ 100 m (Cat 6 / Cat 6a / 2L-2910)
 - HDBaseT Long-Reach mode up to 1920 x 1080 @ 150 m
- Long Reach mode switch – switches between HDBaseT Standard and Long Reach modes in a snap
- 3 USB 2.0 ports for keyboard/mouse and peripherals
- Supports 2-channel PCM digital audio – ensuring high quality audio applications
- Supports PC wakeup function via pushbutton or hotkey
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

Specifications

	CE620L	CE620R
Connectors		
Console Ports	N/A	1 x DVI-D Female (White) 3 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x DVI-D Female (White) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack with locking	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Orange)	
Video Output	N/A	1 (Orange)
Video	Up to 1600 x 1200 & 1920 x 1200 @ 90 m (Cat 5e) / 100 m (Cat 6/6a) 1920 x 1080 @ 150 m (Long reach mode enable)	
Power Consumption	DC5V: 2.68W	DC5V: 5.02W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.63 kg (1.39 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H)	18.20 x 12.28 x 2.87 cm (7.17 x 4.83 x 1.13 in.)	
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 2x Power Adapters; 2x Mounting Kits; 8x Foot Pads	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25

Note: CE620 does not support HDCP.

CE611

Mini USB DVI HDBaseT KVM Extender (1920 x 1200@100m)



(CE611R)

Front

- CE611L



- CE611R



Rear

- CE611L



- CE611R



Features

- **Supports HDBaseT technology**
 - Extends video, audio, USB, and RS-232 signals via a single Cat6 / 6a / ATEN 2L-2910 Cat 6 cable
 - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions
 - Status detection and LED indication for HDBaseT signal transmission on remote unit
- **Long distance with superior video quality** – up to 1920 x 1200 @ 100 m (Cat 6 / 6a / ATEN 2L-2910 Cat 6)
- USB 2.0 full speed ports – ensure fast transmission speeds for peripherals
- Supports individual 2-channel stereo audio for high-quality audio applications
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

Specifications

	CE611L	CE611R
Connectors		
Console Ports	N/A	1 x DVI-D Female (White) 2 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x DVI-D Female (White) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black); Type: DTE	1 x DB-9 Female (Black); Type: DTE
Power	1 x DC Jack with locking	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Orange)	
Video Output	N/A	1 (Orange)
Video	Up to 1600 x 1200 & 1920 x 1200 @ 90 m (Cat 5e) / 100 m (Cat 6 / 6a / ATEN 2L-2910 Cat 6) 1920 x 1080 @100 m(Cat 5e / 6 / 6a)	
Power Consumption	DC5V: 2.494W	DC5V: 4.816W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.35 kg (0.77 lb)	0.34 kg (0.75 lb)
Dimensions (L x W x H)	12.80 x 8.69 x 2.50 cm (5.04 x 3.42 x 0.98 in.)	
Carton Lot	5 sets	
Included Accessories	2x Power Adapters	

Note: CE611 does not support HDCP.

Optional Accessories

Type	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	6-25

CE610A

USB DVI HDBaseT KVM Extender with ExtremeUSB®
(1920 x 1200@100m)



Front

- CE610AL / CE610AR



Rear

- CE610AL



- CE610AR



Features

- Supports HDBaseT connectivity technology
- Single Cat 5e cable extends KVM to a remote site
- Superior Video Quality – up to 1920 x 1200 @ 60Hz at 100 m
- Anti-jamming – resists signal interference during high-quality video transmissions using HDBaseT technology
- ExtremeUSB® – supports transparent USB 2.0 signals and true plug-and-play (no software or drivers required)
- USB 2.0 Support* – connects devices such as keyboard, mouse, flash drive, printer, touch panel, USB 1.1 web cameras and other USB devices which require moderate amounts of bandwidth
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

Note: * The CE610A supports a maximum combined USB transfer rate of 40 Mbps for attached USB devices.

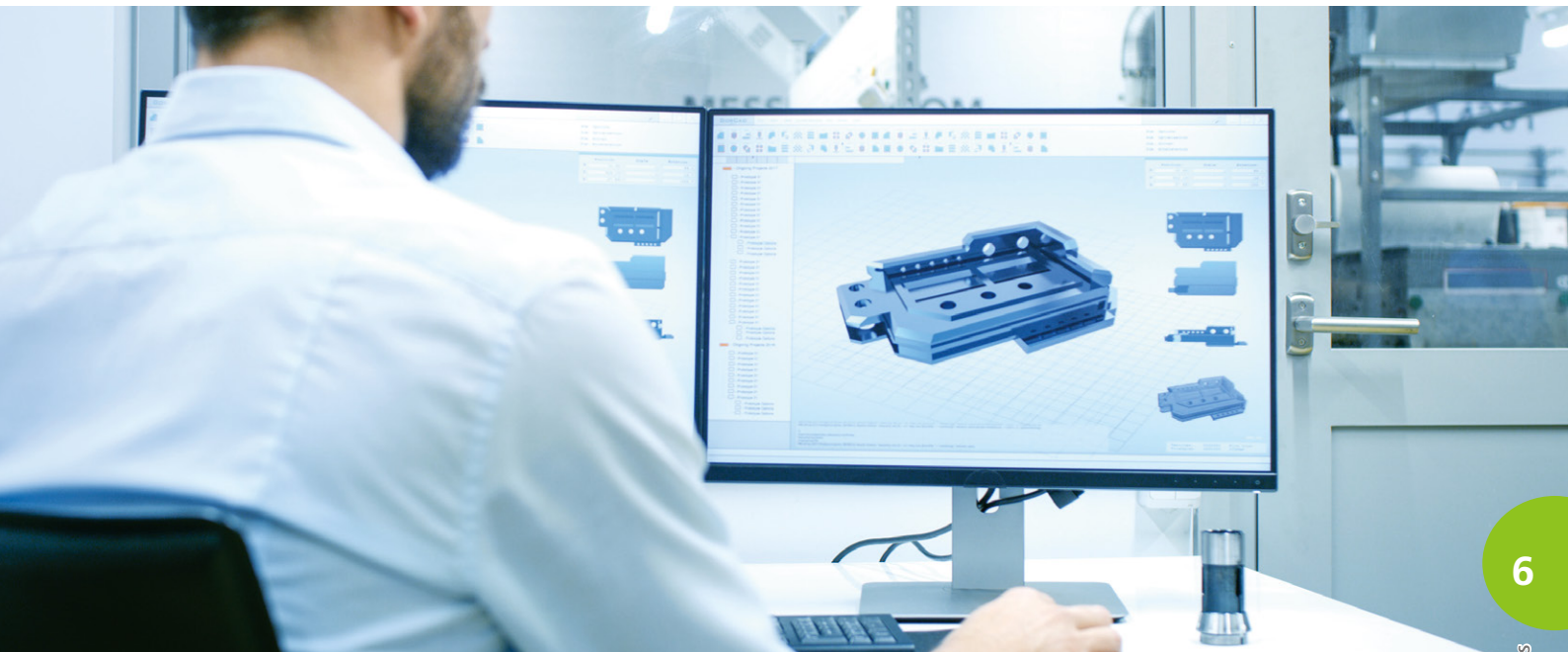
Specifications

	CE610AL	CE610AR
Connectors		
Video In	1 x DVI-D Female (White)	N/A
Video Output	N/A	1 x DVI-D Female (White)
Power	1 x DC Jack	
Firmware Upgrade	1 x mini-USB	
USB Port	1 x USB Type B Female (White)	3 x USB Type A Female (White)
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Power	1 (Green)	
Link	1 (Green)	
USB	1 (Green)	
Video	1 (Green)	
USB	USB 2.0 (Transfer Rate: Up to 40 Mbps)	
Video	1920 x 1200 @ 60Hz (100 m)	
Power Consumption	DC5V: 1.99W	DC5V: 3.95W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.62 kg (1.37 lb)	
Dimensions (L x W x H)	18.20 x 11.79 x 2.87 cm (7.17 x 4.64 x 1.13 in.)	
Carton Lot	5 sets	
Included Accessories	1x Custom DVI Cable; 1x USB Cable; 2x Power Adapters; 1x Mounting Kit	

Note: For the CE610AR, power consumption will be 13.25W when all 3 USB ports are being used.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25



Benefits of ATEN Fiber Optic KVM Extenders

ATEN Fiber KVM extenders utilize single-mode or multi-mode fiber optic cables to extend AV, RS-232, or USB signals at extremely long distances up to 20km, with zero latency as well as resistance to environmental interference.



Uncompressed Video Transmission

Delivers up to 1920 x 1200 uncompressed video.



Dual-Console Control

Control your system from both the local and the remote USB keyboard, monitor, and mouse consoles.



Extremely Long Distance Extension

Transmits signals at extremely long distances up to 20km.



Extra Reliability & Stability

Strict testing process with 50,000 hours burn-in test and 1,000 times power on/off test.



EMI Resistance

Resistance to electromagnetic interference in the environment enables highly secure signal transmission.



Remote Wake-up PC Function

Allows user to simply push a button to remote wake up the PC from Standby Mode.

CE680 / CE690

USB DVI Optical KVM Extender (1920 x 1200@600m / 1920 x 1200@20km)



• CE680



• CE690



Front

- CE680L / CE690L



- CE680R / CE690R



Rear

- CE680L / CE690L



- CE680R / CE690R



Note: The optical fiber modules are color-coded with:

- CE680L: Blue
- CE680R: Yellow
- CE690L: Purple
- CE690R: White

Features

- Superior video quality up to 1920 x 1200 @ 60Hz (24-bit) – receives an excellent, crisp image on your screen over long distances (CE680: up to 600 m, CE690: up to 20 km)
- **Touchscreen support** – connects a generic touchscreen, including up to 10-point multi-touch devices, to accommodate highly interactive applications (no extra drivers needed)
- **Dual console operation** – control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- **Single fiber optic cable allows access to a computer or KVM installation from local / remote consoles**
- HDCP compatible
- RS-232 serial port – connects to a serial terminal or serial devices, such as touch screens and barcode scanners (Baud Rate: 115200 bps)
- PC Wakeup support – uses a pushbutton on a Remote Unit to wake a PC at the local site via RS-232
- Audio Enabled – supports stereo speakers and microphone
- Rack-mountable

Note: CE680 supports OM3 multi-mode fiber.

Specifications

	CE680L / CE690L	CE680R / CE690R
Connectors		
Console Ports	3 x USB Type A Female (White); 1 x DVI-D Female (White); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)	
KVM Ports	2 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	1 x bi-directional SFP (LC)	
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	
Link	1 (Green)	
Fiber Optics		
Operating Distance	CE680: 600 m with (SM) fiber; CE690: 20 km with (SM) fiber	
Wavelength	1310 / 1550 nm for SM	
Data Rate	Single fiber: 3.125G bps	
Power Consumption	DC5.3V: 6.46W	DC5.3V: 5.94W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	CE680: 1.10 kg (2.42 lb); CE690: 1.12 kg (2.47 lb)	
Dimensions (L x W x H)	CE680L / CE690L: 21.50 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.) CE680R / CE690R: 21.50 x 16.29 x 4.18 cm (8.46 x 6.41 x 1.65 in.)	
Carton Lot	1 set	
Included Accessories	1x Custom KVM Cable; 1x USB Cable; 2x Power Adapters; 1x Mounting Kit	

Note: 1. CE680 is available work with OM3 Multi-Mode fiber, transmission distance is up to 300 m [980ft].
2. Operating distance is approximate. These are typical maximum distance that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10



Benefits of ATEN Cat5 / Cat6 KVM Extenders

ATEN provides a wide range of long-distance extension solutions that connect via standard Cat 5e/6/6a, offering an economical solution to extend the distance between your console and the computers in your installation by up to 300m.



RS-232 Serial and USB Support

The RS-232 serial / USB port provides the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, kiosk touch screens, and more – as part of the extender installation.



Patented Deskew Technology

ATEN's automatic and manual delay line synchronizing functions correct the color phase and time errors that occur when RGB video signals are sent long distances over Cat 5e/6/6a cables. ATEN's Deskew technology enables you to manually tune the RGB signals to ensure stable, high-quality video in any extended video installation.



Exceptional Video

Automatic signal compensation is designed into the extender. The video signal strength is automatically adjusted to compensate for the distance between the computer and the console so that the quality of the display is preserved as you get farther from the source.

CE604

USB DVI Dual View Cat 5 KVM Extender (1024 x 768@60m)



Front

• CE604L

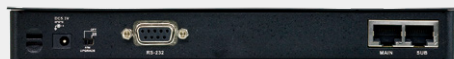


• CE604R



Rear

• CE604L



• CE604R



Features

- Transmit speaker, keyboard, mouse, DDC, and one DVI via one Cat 5 cable; RS-232, microphone, and another DVI by adding a second Cat 5e cable
- Supports **Dual-view** video source transmission (one PC with two video output ports)
- Audio Enabled – supports stereo speakers and microphone
- Supports Real DDC bypass and ATEN default EDID technology – set up various configurations via hotkeys
- Supports PC wakeup function via one pushbutton or hotkey
- RS-232 serial channel – connect to a serial terminal, or serial devices such as touchscreens and barcode scanners (Baud Rate up to 9600 bps)
- Compatible with other ATEN Dual-view KVM devices, such as CS1642A / CS1644A and CS1762A / CS1764A
- Superior video quality – up to 1920 x 1200 @ 60Hz at 30 m; 1024 x 768 @ 60Hz at 60 m
- Manual compensation control to adjust video signal quality in order to compensate for distance
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection

Specifications

	CE604L	CE604R
Connectors		
Console Ports	N/A	2 x USB Type A Female (White) 2 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 2 x DVI-D Female (White)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	2 x RJ-45 Female (Black)	
LEDs		
Link	1 (Green)	
Power	1 (Green)	
Video	1920 x 1200 @ 60Hz (30 m); 1024 x 768 @ 60Hz (60 m)	
Power Consumption	DC5.3V: 2.88W	DC5.3V: 2.35W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.49 kg (1.08 lb)	
Dimensions (L x W x H)	20.20 x 8.53 x 2.50 cm (7.95 x 3.36 x 0.98 in.)	
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 1x DVI Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE600

USB DVI Cat 5 KVM Extender (1024 x 768@60m)



(CE600R)

Front

• CE600L



• CE600R

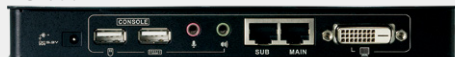


Rear

• CE600L



• CE600R



Features

- Features ATEN technology that allows AV transmission over one cat 5e cable
- Allows access to a computer or KVM installation from a remote console (up to 60 m)
- Superior video quality of up to 1920 x 1200 @ 60 Hz at 30 m; 1024 x 768 @ 60 Hz at 60 m – get an excellent, crisp image on your screen over long distance transmissions
- The 2nd Cat 5e cable is used for HDCP, RS-232, and microphone signals
- Manual compensation control to adjust signal strength in order to compensate for distance
- RS-232 serial ports – connect to a serial terminal, or serial devices such as touchscreens and barcode scanners (Baud Rate up to 115200 bps)
- Audio Enabled – supports stereo speakers and microphone
- Built-in 8KV /15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)
- Rack mountable
- Firmware upgradable

Specifications

	CE600L	CE600R
Connectors		
Console Ports	N/A	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x USB Type B Female (White)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack	
Sub / Main	2 x RJ-45 Female (Black)	
LEDs		
Link	1 (Green)	
Power	1 (Green)	
Emulation		
Keyboard / Mouse	USB	
Video	1024 x 768 @ 60Hz (60 m); 1920 x 1200 @ 60Hz (30 m)	
Power Consumption	DC5.3V: 1.92W	DC5.3V: 1.69W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.48 kg (1.06 lb)	
Dimensions (L x W x H)	20.20 x 8.54 x 2.50 cm (7.95 x 3.36 x 0.98 in.)	20.20 x 8.50 x 2.50 cm (7.95 x 3.35 x 0.98 in.)
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE800B

USB VGA/Audio Cat 5 KVM Extender with USB Flash Storage (1024 x 768@250m)



Front

- CE800BL



- CE800BR



Rear

- CE800BL / CE800BR



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 250 m (825 ft)
- **Dual console operation** – control your system(s) from both the local and remote consoles
- **Gain Control** – automatically or manually adjusts signal strength to compensate for distance
- Pushbutton selection of the active console
- Built-in USB port for external USB storage compliant flash drives for easy file sharing
- Special security feature requires login when attaching an external USB storage device on the remote unit
- Supports VGA, SVGA, and Multisync monitors; local monitor supports DDC, DDC2, and DDC2B
- Superior video quality – up to 1600 x 1200 @ 60Hz
- Built-in 8KV / 15KV ESD protection and 2KV surge protection
- Supports stereo speakers and stereo microphone
- Supports Microsoft Intellimouse and the scrolling wheel on most mice
- Built-in ASIC for greater reliability and compatibility
- Firmware upgradable

Specifications

	CE800BL	CE800BR
Computer Connections	1	N/A
Connectors		
Console Ports	2 x USB Type A Female (White); 1 x HDB-15 Female (Blue); 1 x Mini Stereo Jack (Green); 1 x Mini Stereo Jack (Pink)	
KVM Ports	1 x SPHD-15 Female (Yellow) 1 x USB Type B (Female) 1 x USB Type A (Female) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink)	1 x USB Type A (Female)
Firmware Upgrade	1 x 4-conductor 3.5 mm Jack	N/A
Power	1 x DC Jack	
Unit To Unit	1 x RJ-45	
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	
Link	N/A	1 (Green)
Compensation	N/A	1 (Orange)
Video	1920 x 1200 @ 60Hz at 30 m; 1600 x 1200 @ 60Hz at 150 m; 1024 x 768 @ 60Hz at 250 m	
Power Consumption	DC5V: 2.67W	DC5V: 4.75W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.51 kg (1.12 lb)	0.49 kg (1.08 lb)
Dimensions (L x W x H)	20.20 x 8.63 x 2.63 cm (7.95 x 3.4 x 1.04 in.)	20.20 x 8.16 x 2.63 cm (7.95 x 3.21 x 1.04 in.)
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 1x USB Cable; 1x Firmware Upgrade Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5301U (1.2 m), 2L-5302U (1.8 m), 2L-5303U (3 m), 2L-5305U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE774 / CE775

USB VGA Dual View Cat 5 KVM Extender (1600 x 1200@150m) /
USB VGA Dual View Cat 5 KVM Extender with Deskew (1280 x 1024@300m)

Extension
150 m

• CE774

Extension
300 m

• CE775



Front

- CE774L



- CE774R



Rear

- CE774L / CE775L



- CE774R / CE775R



Features

- Uses two Cat 5e / 6 cables to connect the local and remote units up to 150 m / 300 m
- **Deskew Function** – automatically synchronizes the time delay of RGB signals to compensate for distance (CE775)
- **PC wake up support** – simply use a pushbutton to wake a computer at the local site via RS-232
- **Gain Control** – automatically or manually adjusts signal strength to compensate for distance
- On Screen Display (OSD) – conveniently configure your CE775R with the intuitive OSD menu system
- **Auto Signal Compensation (ASC)**
- Supports keyboard combinations via emulation (for Sun / Mac)
- **Dual console operation** – control your system from both the local and remote USB keyboard, monitor and mouse consoles
- RS-232 serial ports – allow you to connect to a serial terminal, or serial devices such as touch screens and barcode scanners
- Superior Audio – no loss in audio quality at 150 m / 300 m
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection

Specifications

	CE774L / CE775L	CE774R / CE775R
Connectors		
Console Ports	2 x USB Type A Female (White); 2 x HDB-15 Female (Blue); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)	
KVM Ports	1 x SPHD-17 Female (Yellow) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x HDB-15 Male (Blue)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	2 x RJ-45 Female (Black)	
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	
Link	N/A	1 (Green)
Emulation		
Keyboard / Mouse	USB	
Video	CE774: 1920 x 1200 @ 60Hz (30 m); 1600 x 1200 @ 60Hz (150 m) CE775: 1920 x 1200 @ 60Hz (150 m); 1280 x 1024 @ 60Hz (300 m)	
Power Consumption	CE774L: DC5.3V: 3.83W CE775L: DC5.3V: 3.9W	CE774R: DC5.3V: 5.73W CE775R: DC5.3V: 8.6W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.69 kg (1.52 lb)	
Dimensions (L x W x H)	20.00 x 7.62 x 4.20 cm (7.87 x 3 x 1.65 in.)	20.00 x 7.63 x 4.20 cm (7.87 x 3 x 1.65 in.)
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 1x VGA Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5301U (1.2 m), 2L-5302U (1.8 m), 2L-5303U (3 m), 2L-5305U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE770

USB VGA/Audio Cat 5 KVM Extender with Deskew (1280 x 1024@300m)



Front

• CE770L



• CE770RQ



Rear

• CE770L / CE770RQ



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 300 m
- **Deskew Function** – automatically synchronizes the time delay of RGB signals to compensate for distance
- **Gain Control** – automatically or manually adjusts signal strength to compensate for distance
- **Auto Signal Compensation (ASC)**
- Supports keyboard combinations via emulation (for Sun / Mac)
- **Dual console operation** – control your system from both the local and remote USB keyboard, monitor and mouse consoles
- Supports VGA, SVGA, SXGA, UXGA, WUXGA, and multisync monitors; local monitor supports DDC, DDC2, and DDC2B
- RS-232 serial ports – allows you to connect to serial terminals or devices, such as touchscreens and barcode scanners
- Audio Enabled – supports stereo speakers and microphone
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection
- Firmware upgradable
- Rack mountable

Specifications

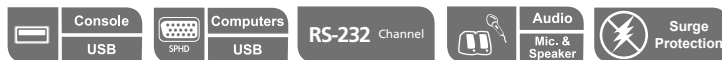
	CE770L	CE770RQ
Connectors		
Console Ports	2 x USB Type A Female (White); 1 x HDB-15 Female (Blue); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)	
KVM Ports	1 x SPHD-17 Female (Yellow), 1 x Mini Stereo Jack Female (Green), 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	N/A
B	N/A	1 (Blue)
G	N/A	1 (Orange/Green)
R	N/A	1 (Red)
Emulation		
Keyboard / Mouse	USB	
Video	1920 x 1200 @ 60Hz (150 m); 1280 x 1024 @ 60Hz (300 m); DDC, DDC2, DDC2B	
Power Consumption	DC5.3V: 2.74W	DC5.3V: 4.54W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.49 kg (1.08 lb)	
Dimensions (L x W x H)	20.20 x 8.64 x 2.50 cm (7.95 x 3.4 x 0.98 in.)	
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5301U (1.2 m), 2L-5302U (1.8 m), 2L-5303U (3 m), 2L-5305U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE750A

USB VGA/Audio Cat 5 KVM Extender (1280 x 1024@200m)



Front

- CE750AL



- CE750AR



Rear

- CE750AL / CE750AR



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 200 m
- [Gain Control](#) – automatically or manually adjusts signal strength to compensate for distance
- [Auto Signal Compensation \(ASC\)](#)
- [Dual console operation](#) – control your system from both the local and remote USB keyboard, monitor and mouse consoles
- Superior video quality – up to 1920 x 1200 @ 60Hz at 30 m, 1600 x 1200 @ 60Hz at 150 m, and 1280 x 1024 @ 60Hz at 200 m
- Supports VGA, SVGA, SXGA, UXGA, and Multisync monitors; local monitor supports DDC, DDC2, and DDC2B
- Supports stereo speakers and stereo microphone
- RS-232 serial ports – allow you to connect to a serial terminal for configuration (Local Unit) or serial devices such as touchscreens and barcode scanners (Remote Unit)
- Built-in 8KV / 15KV ESD protection (contact voltage 8KV, air voltage 15KV) and 2KV surge protection
- Firmware upgradable
- Rack mountable

Specifications

	CE750AL	CE750AR
Connectors		
Console Ports	2 x USB Type A Female (White) 1 x HDB-15 Female (Blue) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	
KVM Ports	1 x SPHD-15 Female (Yellow) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Remote	1 (Green)	
Link	N/A	1 (Green)
Local	1 (Green)	N/A
Picture Compensation	N/A	1 (Orange)
Emulation		
Keyboard / Mouse	USB	
Video	1920 x 1200 @ 60Hz at 30 m; 1600 x 1200 @ 60Hz at 150 m; 1280 x 1024 @ 60Hz at 200 m	
Power Consumption	DC5.3V: 2.44W	DC5.3V: 3.27W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.47 kg (1.04 lb)	
Dimensions (L x W x H)	20.20 x 8.63 x 2.50 cm (7.95 x 3.4 x 0.98 in.)	20.20 x 8.51 x 2.50 cm (7.95 x 3.35 x 0.98 in.)
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5301U (1.2 m), 2L-5302U (1.8 m), 2L-5303U (3 m), 2L-5305U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE700A

USB VGA Cat 5 KVM Extender (1280 x 1024@150m)



Front

• CE700AL



• CE700AR



Rear

• CE700AL / CE770AR



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 150 m
- **Automatic Gain Control** – adjusts signal strength to compensate for distance
- **Auto Signal Compensation (ASC)**
- **Dual console operation** – control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- Built-in ASIC for greater reliability and compatibility
- Supports VGA, SVGA, SXGA, UXGA, WUXGA, and Multisync monitors; local monitor supports DDC, DDC2, and DDC2B
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection
- Superior video quality – up to 1920 x 1200 @ 60Hz (30 m); 1600 x 1200 @ 60Hz (100 m); 1280 x 1024 @ 60Hz (150 m)
- Rack mountable
- Easy to install – no software required; connecting cables to the devices is all it takes

Specifications

	CE700AL	CE700AR
Connectors		
Console Ports	2 x USB Type A Female (White) 1 x HDB-15 Female (Blue)	
KVM Ports	1 x SPHD-17 Female (Green)	N/A
Power	1 x DC Jack (Black)	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	
Link	N/A	1 (Green)
Emulation		
Keyboard / Mouse	USB	
Video	1920 x 1200 @ 60Hz (30 m) 1600 x 1200 @ 60Hz (100 m) 1280 x 1024 @ 60Hz (150 m)	
Power Consumption	DC5.3V: 2.17W	DC5.3V: 1.59W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.33 kg (0.73 lb)	0.32 kg (0.7 lb)
Dimensions (L x W x H)	12.70 x 8.65 x 2.50 cm (5 x 3.41 x 0.98 in.)	12.70 x 8.14 x 2.50 cm (5 x 3.2 x 0.98 in.)
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE100

USB VGA Cat 5 Mini KVM Extender (1280 x 1024@100m)

Most Compact Solution for Remote Access



Front

• CE100L



• CE100R



Rear

• CE100L / CE100R



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 100 m
- [Supports real-time DDC communication](#) when remote display is unplugged and plugged
- Support manual compensation adjustment for better video quality
- Extends local PC VGA/keyboard/mouse to remote side
- Easily add or remove computers connected to the installation
- Superior video quality – up to 1920 x 1200
- Allow access to a computer from the remote console up to 100 m distance
- No external power supply needed for local unit
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)
- Wall mountable

Specifications

	CE100L	CE100R
Connectors		
Console Ports	N/A	2 x USB Type A Female (White) 1 x HDB-15 Female (Blue)
KVM Ports	1 x USB Type B Female (White) 1 x HDB-15 Male (Blue)	N/A
Power	1 x DC Jack	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Link	1 (Blue)	
Power	1 (Green)	
Video	1920 x 1200 @ 60 Hz (30 m); 1280 x 1024 @ 60 Hz (100 m)	
Power Consumption	DC5V: 0.68W	DC5V: 0.99W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.17 kg (0.37 lb)	
Dimensions (L x W x H)	9.10 x 5.74 x 2.40 cm (3.58 x 2.26 x 0.94 in.)	
Carton Lot	20 sets	
Included Accessories	1x Custom KVM Cable; 1x Power Adapter; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE350 / CE370

PS/2 VGA/Audio Cat 5 KVM Extender (1600 x 1200@150m) /
PS/2 VGA/Audio Cat 5 KVM Extender with Deskew (1280 x 1024@300m)



(CE370)

Front

• CE350L / CE370L



• CE350R



• CE370RQ



Rear

• CE350L / CE350R

• CE370L / CE370RQ



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 150 m (CE350) and 300 m (CE370)
- **Deskew Function (CE370)** – automatically synchronizes the time delay of RGB signals to compensate for distance
- **Gain Control** – automatically or manually adjusts signal strength to compensate for distance
- **Auto Signal Compensation (ASC) and storage of settings**
- **Dual console operation** – control your system from both the local and remote keyboard, monitor, and mouse consoles
- Built-in ASIC for greater reliability and compatibility
- RS-232 serial ports – connect to a serial terminal, or serial devices such as touchscreens and barcode scanners (Baud Rate up to 115,200 bps)
- Audio Enabled – supports stereo speakers and microphone
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection
- Supports VGA, SVGA, SXGA, UXGA, WUXGA, and Multisync monitors; local monitor supports DDC, DDC2, and DDC2B
- Firmware upgradable
- Rack mountable

Specifications

	CE350L / CE370L	CE350R / CE370RQ
Connectors		
Console Ports	1 x 6-pin Mini-DIN Female (Purple) 1 x HDB-15 Female (Blue) 1 x 6-pin Mini-DIN Female (Green) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	
KVM Ports	1 x SPHD-17 Female (Yellow) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack	
Unit To Unit	1 x RJ-45 Female (Black)	
Emulation		
Keyboard / Mouse	PS/2	
Video	CE350: 1920 x 1200 @ 60Hz (30 m); 1600 x 1200 @ 60Hz (150 m) ; DDC, DDC2, DDC2B CE370: 1920 x 1200 @ 60Hz (150 m); 1280 x 1024 @ 60Hz (300 m); DDC, DDC2, DDC2B	
Power Consumption	CE350L: DC5.3V: 2.87W CE370L: DC5.3V: 2.70W	CE350R: DC5.3V: 4.85W CE370RQ: DC5.3V: 4.53W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.50 kg (1.1 lb)	CE350: 0.50 kg (1.1 lb) CE370: 0.49 kg (1.08 lb)
Dimensions (L x W x H)	20.20 x 8.64 x 2.50 cm (7.95 x 3.4 x 0.98 in.)	
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5302P (1.8 m), 2L-5303P (3 m), 2L-5305P (5 m)	17-10
Cables & Converters for USB Interface Support*	PC compatible: 2L-5202UP (1.8 m), 2L-5203UP (3 m), 2L-5205UP (5 m), 2L-5206UP (6 m)	17-9
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

CE250A

PS/2 VGA Cat 5 KVM Extender (1280 x 1024@150m)



Front

• CE250AL



• CE250AR



Rear

• CE250AL / CE250AR



Features

- Uses a single Cat 5e cable to connect the local and remote units up to 150 m
- **Automatic Gain Control** – adjusts signal strength to compensate for distance
- **Dual console operation** – control your system from both the local and remote PS/2 keyboard, mouse and monitor consoles
- Superior video quality – up to 1280 x 1024 @ 60Hz
- Supports VGA, SVGA, and Multisync monitors; local monitor supports DDC, DDC2, and DDC2B
- Supports Microsoft Intellimouse and the scrolling wheel on most mice
- Built-in 8KV ESD protection and 2KV surge protection
- Local unit takes its power from the computer - external power is only required when the power from the local computer / computers in the KVM installation is insufficient
- Rack-mountable

Specifications

	CE250AL	CE250AR
Console Selection	1 x Pushbutton	
Connectors		
Console Ports	1 x 6-pin Mini-DIN Female (Purple) 1 x HDB-15 Female (Blue) 1 x 6-pin Mini-DIN Female (Green)	
KVM Ports	1 x SPHD-15 Female	N/A
Power	1 x DC Jack	
Unit To Unit	1 x RJ-45 Female (Black)	
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	N/A
Power	N/A	1 (Green)
Online	N/A	1 (Green)
Emulation		
Keyboard / Mouse	PS/2	
Video	1280 x 1024 @ 60Hz (150 m); DDC; DDC2; DDC2B	
Power Consumption	DC5V: 0.62W	DC5V: 1.21W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.33 kg (0.73 lb)	0.32 kg (0.7 lb)
Dimensions (L x W x H)	12.70 x 8.66 x 2.63 cm (5 x 3.41 x 1.04 in.)	12.70 x 8.15 x 2.63 cm (5 x 3.21 x 1.04 in.)
Carton Lot	5 sets	
Included Accessories	1x Custom KVM Cable; 1x Power Adapter; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m)	17-9
Cables & Converters for USB Interface Support*	PC compatible: 2L-5202UP (1.8 m), 2L-5203UP (3 m), 2L-5205UP (5 m), 2L-5206UP (6 m)	17-9
HDBaseT Cat 6 Cable	2L-2910	6-25
Low Skew Cable	2L-2801	6-27

2L-2910

305M HDBaseT SF/UTP Cat 6 Cable



The 2L-2910 is a twisted-pair cable engineered for optimum signal transmission at resolutions up to 4K including digital and analog data, audio, and video applications. The cable supports sweep frequency up to 400 MHz and has been verified to meet performance requirements set by the HDBaseT Alliance.

The 2L-2910 supports long-distance connections while safeguarding transmission quality. The outer metal layer and the braid protect signal transmissions from electromagnetic interference and reduce the impact caused by electrical noise.

The 2L-2910 utilizes SF/UTP design with four unshielded 23 AWG twisted pair conductors. Among the four unshielded twisted pair conductors, there is one cross filler to reduce cross talk. Most importantly, the cable meets the requirements set by ANSI/TIA-568-C.2 (2009) ensuring high performance in electrical transmission.



6

KVM Extenders



Features

- Optimized for multiple distributions including HD video, audio, Ethernet, power, and control
- Verified to meet performance requirements set by HDBaseT Alliance
- Supports sweep frequency up to 400 MHz
- Supports up to 4K data transmission
- Conductor material: 23 AWG bare copper
- Outer shielded material: Al Mylar tape
- Braid wire: tinned copper
- Flame test UL 1685 (CM rated), RoHS compliant
- Compatible with ATEN HDBaseT extenders and splitters
- Regulatory:
 - PoE: IEEE 802.3af (PoE)/ IEEE 802.3at (PoE+)
 - Electrical Transmission: ANSI/TIA-568-C.2 (2009), ISO/IEC 11801 (Edition 2.2), IEC 61156-5 (Edition 2.1)
 - Material and Construction: UL 444, CSA 22.2 NO.214



2L-2910 Specifications

	2L-2910
Cable Type	Cat 6 SF/UTP
Conductor	
Size	23 AWG
Construction	Solid Bare copper
Number of Pairs	4
Insulation	
Material	Polyolefin
Color codes	Blue & White/Blue stripe 1.08 ± 0.02 mm; Orange & White/Orange stripe 1.05 ± 0.02 mm Green & White/Green stripe 1.08 ± 0.02 mm; Brown & White/Brown stripe 1.05 ± 0.02 mm
Shield	
Material	Al Mylar tape
Coverage	100% Coverage and mylar side facing out
Filler	Polyolefin (PO)
Braid	Tinned Copper
Electrical	
Dc Resistance Unbalance	≤ 5%
Conductor Resistance	≤ 9.38 Ω/100m
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ•km
Mutual Capacitance	≤ 5.6 nF/100m
Pair-To-Ground Capacitance Unbalance	≤ 330 pF/100m
Ac Leakage Current Throught Overall Jacket	≤ 10mA (1.5KV AC)
Spark Test	2.5 KV DC
Minimum bending radius	≥4 times of overall diameter
Delay Skew	45.00 Max.ns/100m
Jacketed	
Material	Polyvinyl chloride (PVC)
Average Thickness	0.5 mm±-0.05mm
Diameter	7.4 ± 0.20 mm
Color	Blue
Environmental	
Temperature (Operating / Storage)	-20°C – 60°C
Physical Properties	
Weight	17.57 kg (38.7 lb)
Cable Length	305 m / 1000 ft

2L-2801

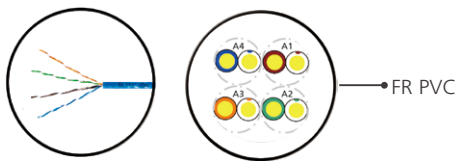
305M Low Skew Cat 5e Cable

Analog video presents a high-quality image when the computer is directly connected to the monitor by short cables. "Skew" is the color phase and time errors that occur when R/G/B video signals are sent over long-distance Cat 5e cables, which can result in smeared, less sharp and color-fringed images. To remedy this distortion, ATEN developed a Low Skew Cat 5e cable. This high-performance cable is suitable for the audio and video transmission of a wide range of video and KVM extenders. To eliminate blur and bleeding images and to ensure clear video transmissions, use 2L-2801 Low Skew Cat 5e Cable.



Features

- Supports high-quality RGB video transmissions
- Contains 305 m (1000 ft.) low skew cable
- Delay Skew: 1 – 350 MHz 20nS/100 m Max.
- Outer jacket material: FR PVC
- Outer shielded material: unshielded
- Conductor material: 24 AWG solid bare copper
- Compatible with ATEN analog Cat 5 video extenders, KVM extenders, and Cat 5 KVM switches
- UL, ETL approved





2L-2801 Specifications

	2L-2801
Item	24AWG × 4p
Cable Length	305 m/1000 ft
Conductor Resistance	9.38 Ohm/100m/20°C Max.
Mutual Capacitance	56 Pf/M Max.
Dielectric strength	Ac 1.5 Kv/2 Sec.
Spark Test	2.5 Kv
Insulation	
Unaged	Tensile Strength: 2400 Psi Min. (1.69 Kg/M(mxm)) Elongation: 300% Min.
Aged	Tensile Strength: Unaged Min. 75% (100°C×48hrs) Elongation: Unaged Min. 75% (100°C×48hrs)
Jacketed	
Unaged	Tensile Strength: 2000 Psi Min. (1.41 Kg/M(mxm)) Elongation: 100% Min.
Aged	Tensile Strength: Unaged Min. 85% (100°C×240hrs) Elongation: Unaged Min. 50% (100°C×240hrs)
Insulation Shrinkback	150m/M, 121°C±1°C×1hr ≤ 9.5m/M
Cold Bend Test	-20°C×4hrs No.Crack
Flame Retardant Test	CMR
Ac Leakage Current Throught Overall Jacket	Ac 1500v ≤ 10 Ma
Dc Resistance Unbalance	5% Max.
Pair-To-Ground Capacitance Unbalance	330 Pf/100m Max.
Characteristic Impedance	1 – 350 Mhz 100±15 Ohms
Structural Return Loss	350 Mhz 10.6db Min.
Propagation Delay	350 Mhz 536ns/100m Max.
Delay Skew	1 – 350 Mhz 20ns/100m Max.
Physical Properties	
Weight	9.80 kg

KVM over IP Switches

CN8000A / CN9000 / CN9600 / CN9950 – Provide over IP Capability for KVM Switches

The CN series is our most cost-effective over IP solutions that are perfect for small racks in data centers with built-in IP functionality and ideal for WFH (work-from-home) scenario where remote work is demanded.

CS1708i / CS1716i – All-in-One over IP Server Management Solution

The CS1708i / CS1716i KVM switches are IP-based KVM control units that allow both local and remote users to monitor and access multiple computers from a single console.



- **Remote Desktop Scaling**

KVM over IP switches allow administrators to view the installation server's video output from remote locations in either full-screen or in a flexible scaled window.

- **Unrestricted Language Input**

KVM over IP switches support an on-screen keyboard available in multiple languages.

- **Powerful Security Alternatives**

KVM over IP switches support authentication and authorization management from third-party authentication services – e.g. RADIUS, LDAP, LDAPS, and MS Active Directory.

- **Serial Console Management**

The CN8000A / CN9000 / CN9600 / CN9950 KVM over IP switches provide serial console management such as serial terminal access and out-of-band support. Serial terminal access can be accomplished either with the switch's built-in serial viewer, or via third-party software (such as PuTTY) for Telnet and SSH sessions. In addition, CN9600 only complies with the DTE / DCE standard.

- **Centralized Server Monitoring**

Panel Array Mode™ allows administrators to display the video output of up to 16 servers on one monitor simultaneously, while a convenient Auto Scan feature permits automatic switching from port to port at user-specified intervals.

- **Mouse DynaSync™**

The Mouse DynaSync™ function provides automatic locked-in synchronizing of the remote and local mouse pointers – resulting in perfect mouse alignment regardless of the mouse acceleration settings on the server and eliminating the need for synchronizing time between the two mice.

- **Centralized Real-Time Updating and Maintenance**

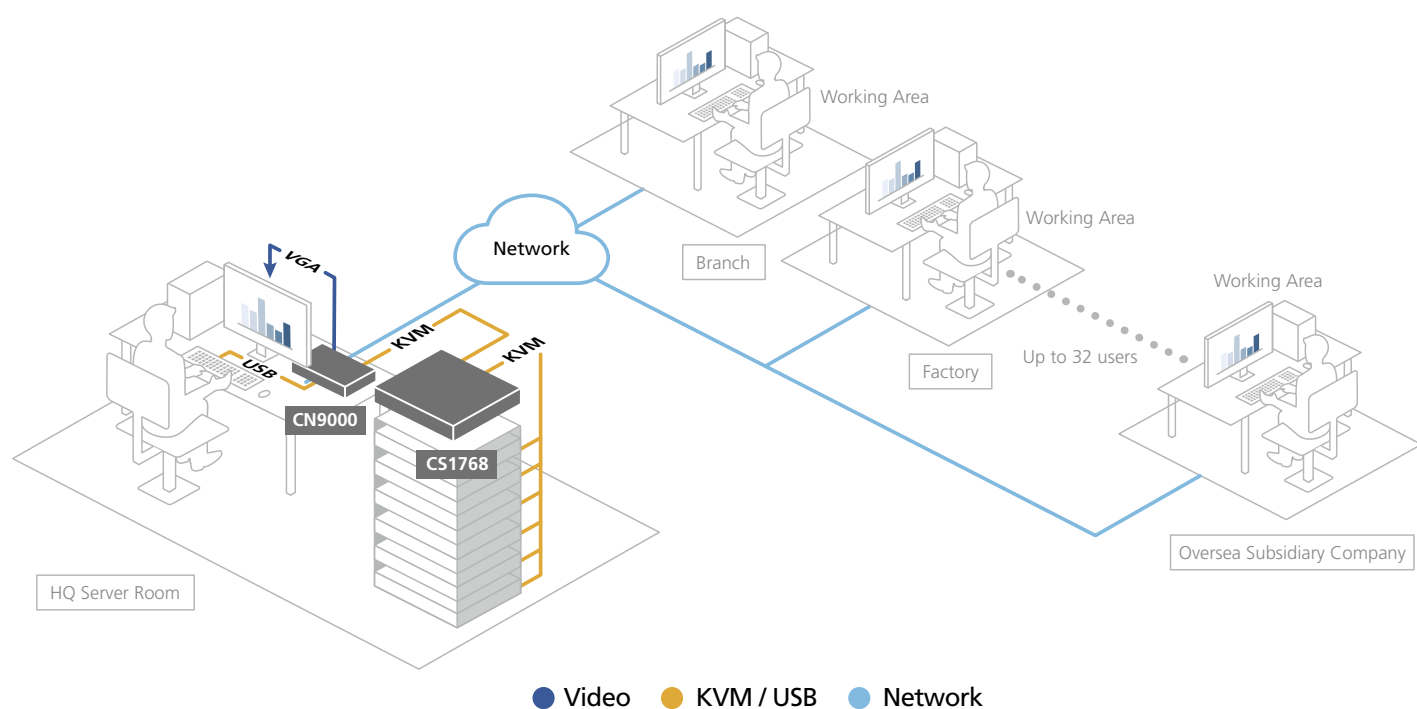
Virtual Media support allows users to map DVD / CD-ROMs and other storage media to a remote server. Performing firmware upgrades, diagnostic tests, file transfers, and installing OS and application patches can all be accomplished smoothly and quickly across the installation from a single console located anywhere in the world.

- **Message Board**

The Message Board function is similar to an Internet chat room and allows administrators to share management information and resolve port access conflicts.

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Feature Comparison

Model No.		CN8000A	CN9000	CN9600	CN9950	CS1708i / CS1716i
Type		KVM over IP	KVM over IP	KVM over IP	KVM over IP	KVM over IP
Computer Connections	Direct	1	1	1	1	8 / 16
	Max.	1	1	1	1	128 / 256
Interface	Video	VGA (SPHD)	VGA (SPHD)	DVI-D	DisplayPort	VGA (SPHD)
Bus Sessions	Local / Remote	1	1	1	1	1
Local Console		PS/2, USB	USB	USB	USB	PS/2, USB
Mouse DynaSync™		•	•	•	•	•
Virtual Media		•	•	•	•	N/A
Panel Array Mode		N/A	N/A	N/A	N/A	•
IPv6		•	•	•	•	•
Video		Up to 1920 x 1200 @ 60Hz	Up to 1920 x 1200 @ 60Hz	Up to 1920 x 1200 @ 60Hz	Up to 4096 x 2160 @ 30Hz	Local - 2048 x 1536; DDC2B Remote - FHD: 1920 x 1200 @ 60Hz; Non - FHD: 1600 x 1200 @ 60Hz

CN9950

1-Local/Remote Share Access Single Port 4K DisplayPort KVM over IP Switch



Front



Rear



Features

- A mini USB port in the front panel can serve as a Virtual Media USB port or a Laptop USB Console (LUC) port
- Compact and slim design for space utility optimization
- Supports 5-pin Relay/DI Terminal for environment monitoring and remotely reboot control
- Pixel clear DP compatible with DP 1.2 up to DCI 4K @30Hz
- Provides an FPGA graphics processor for better image quality
- Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation
- Dual power supply to ensure seamless connectivity
- Local/Remote Share Mode conveniently grants shared or exclusive console privilege
- Provides over IP capability to DisplayPort KVM switches without over IP functionality*
- Serial console management – access server via built-in serial viewer or third party software (such as PuTTY) for Telnet and SSH sessions

Note: * Compatible KVM Switch: ATEN DisplayPort KVM Switches

Specifications

CN9950	
Connectors	
Console Ports	2 x USB Type A Female (White); 1 x DisplayPort Female (Black); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type B Female (White); 1 x DisplayPort Female (Black); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Mini-B Female
Power	2 x DC Jack
Serial Port	2 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard / Mouse	USB
LEDs	
Power	2 (Green)
Video	1920 x 1200 @ 60 Hz
Power Consumption	DC5V: 9.76W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.85 kg (1.87 lb)
Dimensions (L x W x H)	20.00 x 14.93 x 2.85 cm (7.87 x 5.88 x 1.12 in.)
Carton Lot	5 pcs
Included Accessories	1x DisplayPort Cable; 1x USB Cable (USB-A to USB-B); 1x USB Cable (USB-A to Mini-USB); 1x Power Adapter; 1x Control Terminal Block; 1x Mounting Kit; 1x Foot Pad Set

Optional Accessories

Type	Part No. / Spec.	Page No.
DisplayPort Cables	2L-7D02DP (2 m), 2L-7D03DP (3 m)	17-11

CN9600

1-Local/Remote Share Access Single Port DVI KVM over IP Switch



Front



Rear



Features

- A mini USB port on the front panel serves as a Laptop USB Console (LUC) port
- Compact and slim design for space utility optimization
- Provides a FPGA graphics processor for better image quality
- Complies to the RS-232 DTE/DCE standards for serial control
- Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation
- Dual power supply to ensure seamless connectivity
- Local/Remote Share Mode conveniently grants shared or exclusive console privilege
- Provides over IP capability to DVI KVM switches without over IP functionality*
- Audio support – microphone and speaker ports on the local and remote console
- Serial console management – access server via built-in serial viewer or third party software (such as PuTTY) for Telnet and SSH sessions
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates for securing users logging in from browsers

Note: * Compatible KVM Switch: ATEN DVI Single Link KVM Switches

Specifications

	CN9600
Connectors	
Console Ports	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Mini-B Female
Power	2 x DC Jack
Serial Port	2 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
LEDs	
Power	1 (Green)
Video	1920 x 1200 @ 60 Hz
Emulation	
Keyboard / Mouse	USB
Power Consumption	DC5V: 5.55W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.84 kg (1.85 lb)
Dimensions (L x W x H)	20.00 x 15.49 x 2.85 cm (7.87 x 6.1 x 1.12 in.)
Carton Lot	5 pcs
Included Accessories	1x KVM Cable; 1x USB Cable; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (2 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-11 17-11 17-10
USB HDMI to DVI-D Single Link KVM Cable	2L-7D02DH (1.8 m)	17-11
USB HDMI to DVI-D Dual Link KVM Cable	2L-7D02UD (1.8m)	17-11

CN9000

1-Local/Remote Share Access Single Port VGA KVM over IP Switch



Front



Rear



Features

- High video resolution – up to 1920 x 1200 @ 60 Hz
- Laptop USB Console (LUC) – a dedicated mini USB port for direct, easy console operation via a laptop
- Message board – convenient communication for remote users
- Serial console management – access server via built-in serial viewer or third party software (such as PuTTY) for Telnet and SSH sessions
- Provides over IP capability to KVM switches without over IP functionality
- Browser-based UI in pure web technology allows administrators to perform administrative tasks without a pre-installed Java software package required
- Provides an FPGA graphics processor for better image quality
- Dual power supply to ensure seamless connectivity
- Two 10 / 100 / 1000 Mbps NICs for redundant LAN or two IP operation
- Supports 5-pin Relay/DI Terminal for environment monitoring and remotely reboot control
- Supports USB and legacy PS/2 keyboard and mouse

Specifications

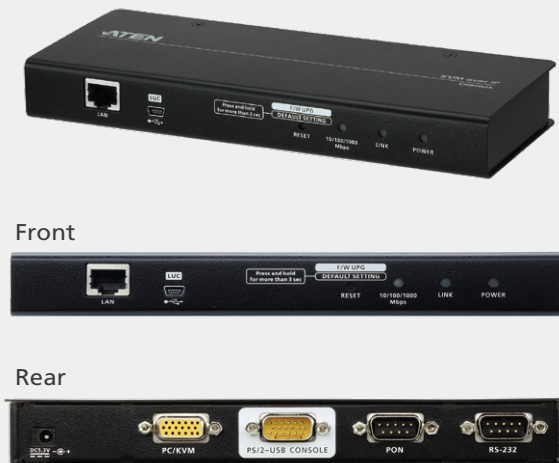
CN9000	
Connectors	
Console Ports	2 x USB Type A Female (White); 1 x VGA Female (Blue); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x SPHD Female (Yellow); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Mini-B Female
Power	2 x DC Jack
Serial Port	2 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard / Mouse	USB, PS/2
LEDs	
Power	2 (Green)
Video	1920 x 1200 @ 60 Hz
Power Consumption	DC5V: 7.46W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.86 kg (1.89 lb)
Dimensions (L x W x H)	20.00 x 15.41 x 2.85 cm (7.87 x 6.07 x 1.12 in.)
Carton Lot	5 pcs
Included Accessories	1x KVM Cable (VGA, PS/2, USB); 1x USB Cable (USB Type-A to Mini-B); 1x Power Adapter; 1x Control Terminal Block; 1x Mounting Kit; 1x Foot Pad Set

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m)	17-9
PS/2-USB VGA KVM Cables	2L-5301UP (1.2 m), 2L-5302UP (1.8 m), 2L-5303UP (3 m)	17-10

CN8000A

1-Local/Remote Share Access Single Port VGA KVM over IP Switch (1920 x 1200)



Features

- High video resolution – up to 1920 x 1200 @ 60 Hz
- Laptop USB Console (LUC) – a dedicated USB port directly connects to laptop for easy console operation
- Easy configuration through local console OSD
- Message board – convenient communication for remote users
- Serial console management – access server via built-in serial viewer or third party software (such as PuTTY) for Telnet and SSH sessions
- Exit macro support
- Integration with ATEN CC2000 Centralized Management Software
- Integration with ATEN CCVSR Video Session Recording Software
- Provides over IP capability to KVM switches without over IP functionality
- Critical system events sent by email and SNMP trap; Syslog support
- Browser-based and AP GUIs offer a unified multilingual interface for easy and convenient use
- Browser-based UI in pure web technology allows administrators to perform administrative tasks without a pre-installed Java software package required
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates for securing users logging in from browsers

Specifications

	CN8000A
Connectors	
Console Ports	1 x SPHD Male (Yellow)
KVM (Computer) Ports	1 x SPHD Female (Yellow)
Laptop USB Console (LUC) Port	1 x USB Mini-B Female
PON	1 x DB-9 Male
Modem / RS-232	1 x DB-9 Male
LAN Ports	1 x RJ-45 Female
Power	1 x DC Jack
Switches	
Reset	1 x Semi-recessed Pushbutton
LEDs	
Power	1 (Orange)
Link	1 (Green)
10/100/1000 Mbps	1 (Orange / Orange + Green / Green)
Video	1920 x 1200 @ 60Hz
Emulation	
Keyboard / Mouse	USB, PS/2
Power Consumption	DC5.3V: 4.79W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.49 kg (1.08 lb)
Dimensions (L x W x H)	20.00 x 8.14 x 2.50 cm (7.87 x 3.2 x 0.98 in.)
Carton Lot	5 pcs
Included Accessories	1x Custom KVM Cable; 1x Custom Console Cable; 1x USB Cable; 1x Power Adapter; 1x Rack Mounting Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m)	17-9
PS/2-USB VGA KVM Cables	2L-5301UP (1.2 m), 2L-5302UP (1.8 m), 2L-5303UP (3 m)	17-10

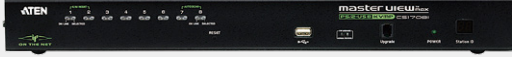
CS1708i / CS1716i

1-Local/Remote Share Access 8/16-Port PS/2-USB VGA KVM over IP Switch



Front

• CS1708i



• CS1716i



Rear

• CS1708i



• CS1716i



Features

- Secure keyboard/mouse/video transmission via RC4 128-bit encryption
- Supports TLS 1.2 data encryption and RSA 2048 bit certificates for securing users logging in from browsers
- **Panel array mode enables user to monitor multiple servers from single screen at the same time**
- IPv6 capable
- **Message board – convenient communication for remote users**
- Adjustable video quality for flexible adaptation to diverse network environments
- Windows client and Java client software support; Java client works with all operating systems
- Front access USB port* allows each computer to access USB peripherals
- **Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources

Note: * Local console only

Specifications

	CS1708i	CS1716i
Computer Connection		
Direct	8	16
Max.	128 (via daisy chain)	256 (via daisy chain)
Port Selection	OSD / GUI, Hotkey, Pushbutton	
Connectors		
Console Ports	1 x SPHD Male (Yellow)	
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
Daisy Chain Ports	1 x DB-25 Male	
Power	1 x DC Jack	
LAN Ports	1 x RJ-45 Female	
Firmware Upgrade	1 x RJ-11	
USB Port	1 x USB Type A Female	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Station ID	1 x 2-digit, 7-segment (Orange)	
Power	1 (Dark Green)	
10/100 Mbps	1 (Orange / Green - at LAN port)	
Emulation		
Keyboard / Mouse	PS/2, USB	
Video		
Local	2048 x 1536; DDC2B	
Remote	FHD: 1920 x 1200 @ 60Hz; Non-FHD: 1600 x 1200 @ 60Hz	
Power Consumption	DC5.3V: 7.67W	DC5.3V: 9.2W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	2.81 kg (6.19 lb)	3.00 kg (6.61 lb)
Dimensions (L x W x H)	43.72 x 15.96 x 4.40 cm (17.21 x 6.28 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	1x Custom KVM Cable; 1x Custom KVM Cable; 1x Custom Console Cable; 1x Firmware Upgrade Cable; 1x Mounting Kit; 1x Foot Pad Set (4 pcs); 1x Power Adapter	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Daisy-chain Cables	2L-1700 (0.6 m), 2L-1701 (1.8 m), 2L-1703 (3 m), 2L-1705 (5 m), 2L-1715 (15 m)	17-11

KVM over IP Switches KN1000A • KH1508Ai / KH1516Ai

KN1108VA / KN1116VA • KN2124VA / KN2140VA / KN4124VA / KN4140VA / KN1132V / KN2116VA

KN2132VA / KN4116VA / KN4132VA / KN4164V / KN8132V / KN8164V

KVM over IP Console Station / KA8270 • KA8280 • KA8278 • KA8288

ATEN KVM over IP switches provide remote access to manage data center or branch office servers anytime, anywhere. They offer IT managers a scalable, sustainable, and secure enterprise-class KVM over IP solution.

ATEN KVM over IP switches allow connected servers and serial-based devices BIOS-level access with power management when incorporated with ATEN PDUs. Additionally, when the network is down, they provide external modem support for out-of-band service. For organization security concerns, ATEN adopts the industry's highest level of security standards and networking protocols. ATEN's CC2000 Centralized Management Software and CCVSR Video Session Recording Software create an extra layer of security for your organization's IT assets.

There are a wide range of models available for branch and enterprise environments, including 1-, 8-, 16-, 24-, 32-, 40-, and 64-port models connecting up to 512 servers with 1, 2, 4, and 8 buses for remote access.

Improved IT Management Efficiency

ATEN KVM over IP switches greatly increase management efficiency and administrative flexibility. Manage your organization's servers with up to 1 local and 8 remote user access, and support for up to 64 user accounts and 32 simultaneous logins.

Enhanced Security

Increase security and reduce risk by utilizing the industry's highest security standards and protocols, such as support for RADIUS, LDAP, LDAPS, MS Active Directory for secured authentication TLS 1.2, 2048-bit RSA, 256-bit AES, FIPS 140-2 for data encryption, and network IP/MAC address filter for secured network access.

24-7 Management

ATEN KVM over IP switches provide comprehensive reliability. The integration of dual power supplies and dual Network Interface Controllers (NIC) provides backup redundancy. In addition, with powerful SNMP Trap features and sophisticated notification options, administrators are able to customize the settings for how significant events will be communicated on their systems and respond to critical situations in a timely manner.

Complete Monitor & Control

Managing multiple KN Series solutions is simple with CC2000 Centralized Management Software, CCVSR Video Session Recording Software and PadClient mobile app. Experience total control of the enterprise server room through a single portal: secure, centralized management of your entire IT installation, locally and worldwide, is now yours. Anywhere, anytime.

Blade Server Access and Control

With support for the industry's leading blade server brands such as IBM®, Dell®, Cisco® and HP®, administrators can now easily create an association between a port on the switch and any individual blade, or an entire blade server – allowing the blade server to be integrated into the switch's tree view to be accessed.



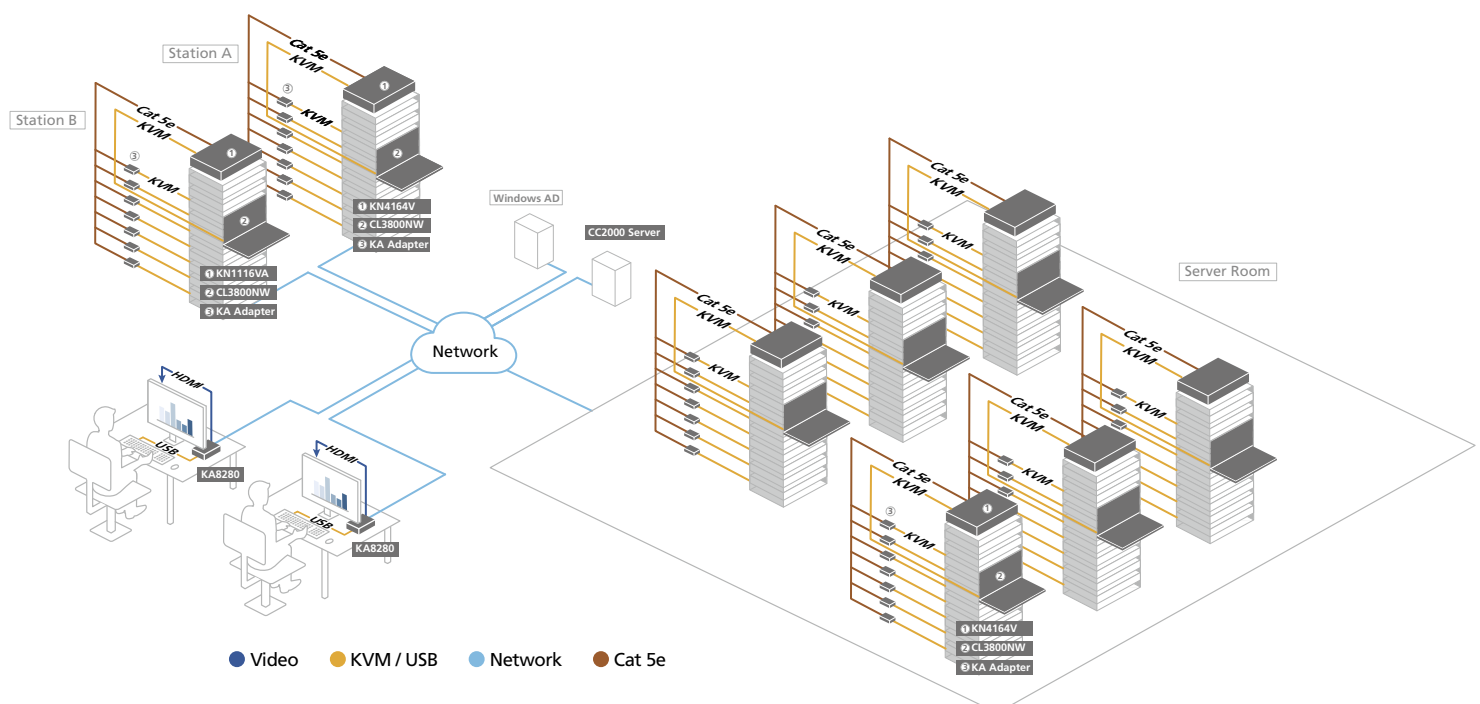
Intuitive Control

Managing large-scale servers is simplified with ATEN KVM over IP switches. A user-friendly Magic Panel™ Graphics User Interface (GUI) with multi-language support provides convenient management through configurable function icons. Panel Array Mode™ incorporated with Virtual Remote Desktop allows administrators to display the video output of up to 64 servers on their monitors at the same time. Mouse DynaSync™ function provides automatic locked-in syncing of the remote and local mouse pointers – resulting in perfect mouse alignment.

Centralized Real-Time Updating and Maintenance

Virtual Media support allows operators to map DVD/CD-ROMs and other storage media to a remote server. Performing firmware upgrades, diagnostic tests, file transfers, and installing OS and application patches can all be accomplished smoothly and quickly across the installation from a single console located anywhere.

Note: The features highlighted above are not available on all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Comparison

		KN1000A	KH1508Ai / KH1516Ai	KN1108VA / KN1116VA
Computer Connections	Direct	1	8 / 16	8 / 16
	Max.	1	128 / 256 (Daisy-Chain)	128 / 256 (Cascade ^{1, 2})
Multiple Sessions	Local	1	1	1
	Remote			1
Computer	Connector	SPHD	RJ-45	
	Support Interface	PS/2, USB, Serial	PS/2, USB, Serial ³	PS/2, USB, Serial ⁴
	Support Platform	Windows, Linux, Mac, Sun ⁵	Windows, Linux, Mac, Sun	
Local Console Interface		PS/2, USB		
RADIUS Support		•	•	•
LDAP/AD		•	•	•
BIOS Level Control		•	•	•
GUI		•	•	•
Concurrent Access		32		
Share Mode Support		•	•	•
Message Board		•	•	•
Panel Array Mode™		N/A	•	•
External PON		•	•	•
Virtual Media		•	N/A	•
External Modem Support		•	N/A	•
On-Screen Keyboard		•	•	•
Mouse DynaSync™		•	•	•
Virtual Remote Desktop		•	•	•
Firmware Upgradable		•	•	•
Multilingual Support		•	•	•
Dual NIC Design		N/A	N/A	•
Dual Power Supply		N/A	N/A	•
Audio		N/A	N/A	•
Independent Bus Switching		N/A	N/A	•
Adapter ID Support		N/A	•	•
Blade Server Support		N/A	N/A	•
Green IT – Fan Speed		N/A	N/A	N/A
IPv4 & IPv6 Dual Stack		•	•	•
Laptop USB Console (LUC)		•	•	•
Built-in 1-Port Power Switch		•	N/A	N/A
RS-232 Built-in		•	N/A	•
CC2000 Centralized Management Software		•	•	•
CCVSR Video Session Recording Software		N/A	N/A	•
PadClient		•	N/A	•
KN console station support		•	N/A	•

Note:

1. Cascade-compatible KVM switches include the following: CS1308, CS1316, KH1508A, KH1516A, and KH1532A. Some KVM over IP features may not be supported, depending on the functionality of the cascaded KVM switch.
2. KN1108VA/KN1116VA do not support KH1532A.
3. Requires KA9140 Serial Adapter Module.
4. Requires KA7140 Serial Adapter Module.
5. Sun to PS/2 converters are available to allow Sun systems to exist on the same installation.

		KN2116VA KN4116VA	KN2124VA KN4124VA	KN1132V KN2132VA KN4132VA KN8132V	KN2140VA KN4140VA	KN4164V KN8164V
Computer Connections	Direct	16	24	32	40	64
	Max.	512 (Cascade ¹)	512 (Cascade ¹)	512 (Cascade ¹)	512 (Cascade ¹)	512 (Cascade ¹)
Multiple Sessions	Local	1	1	1	1	1
	Remote	2 / 4	2 / 4	1 / 2 / 4 / 8	2 / 4	4 / 8
Computer	Connector	RJ-45				
	Support Interface	PS/2, USB, Serial ⁴				
	Support Platform	Windows, Linux, Mac, Sun				
Local Console Interface		USB				
RADIUS Support		•	•	•	•	•
LDAP/AD		•	•	•	•	•
BIOS Level Control		•	•	•	•	•
GUI		•	•	•	•	•
Concurrent Access		32				
Share Mode Support		•	•	•	•	•
Message Board		•	•	•	•	•
Panel Array Mode™		•	•	•	•	•
External PON		•	N/A	•	N/A	•
Virtual Media		•	•	•	•	•
External Modem Support		•	N/A	•	N/A	•
On-Screen Keyboard		•	•	•	•	•
Mouse DynaSync™		•	•	•	•	•
Virtual Remote Desktop		•	•	•	•	•
Firmware Upgradable		•	•	•	•	•
Multilingual Support		•	•	•	•	•
Dual NIC Design		•	•	•	•	•
Dual Power Supply		•	•	•	•	•
Audio		•	•	•	•	•
Independent Bus Switching		•	•	•	•	•
Adapter ID Support		•	•	•	•	•
Blade Server Support		•	•	•	•	•
Green IT – Fan Speed		•	•	•	•	•
IPv4 & IPv6 Dual Stack		•	•	•	•	•
Laptop USB Console (LUC)		•	•	•	•	•
RS-232 Built-in		•	N/A	•	N/A	•
Multi-Display		•	•	•	•	•
CC2000 Centralized Management Software		•	•	•	•	•
CCVSR Video Session Recording Software		•	•	•	•	•
PadClient		•	•	•	•	•
KN console station support		•	•	•	•	•

KVM over IP Switches		Port Number						
		64 Ports	40 Ports	32 Ports	24 Ports	16 Ports	8 Ports	1 Port
Number of Buses* for Remote Access	8	KN8164V		KN8132V				
	4	KN4164V	KN4140VA	KN4132V	KN4124VA	KN4116VA		
	2		KN2140VA	KN2132VA	KN2124VA	KN2116VA		
	1			KN1132V		KN1116VA	KN1108VA	
	1 (Share bus)					KH1516Ai	KH1508Ai	KN1000A

Note:

*Each bus permits a separate remote user session, up to 1/2/4/8 servers connected to each KVM over IP switch can be controlled simultaneously.

KN1000A > 1-Local/Remote Share Access

Single Port VGA KVM over IP Switch with Single Port Power Switch



KN1000A



Front



Rear



Highlights

- Provides over IP capability to servers or KVM switches that do not have built-in over IP functionality¹
- [High video resolution – up to 1920 x 1200 @ 60 Hz](#)
- [Laptop USB Console \(LUC\) – a dedicated USB port directly connects to a laptop for easy console operation](#)
- [Easy configuration through local console OSD](#)
- [Extreme virtual media speed – 6x faster virtual media transmission speed](#)
- [Serial terminal access through RS-232 and PON ports](#)
- On/Off scheduling for power outlet – power management tasks can be scheduled on a daily, weekly, monthly or user-specified time basis
- Safe shutdown support
- Auto-Ping pings a device to determine its status, if the ping test fails after a set amount of time, it automatically takes an assigned action
- Supports DDNS (Dynamic Domain Name System)
- [Message Board for communication among remote users](#)
- Supports ATEN KVM over IP Console Station²
- [PadClient provides instant, convenient, and secure remote access to control servers through your iPad. \(available free on the Apple Store\)](#)

Note:

1. Compatible KVM switches include the following: CS1308, CS1316, CS1708A, CS1716A, KH1508A, KH1516A, KH2508A, and KH2516A. Some features found on the connected KVM switches may not be supported on the KN1000A.
2. Refer to page 7-27 for details.

Hardware

- Built-in single port Power Switch with circuit breaker function for powering connected servers

Management

- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Serial terminal access via a built-in serial viewer, or third-party Telnet / SSH client (such as PuTTY)
- PPP mode (modem) dial-in/dial-out support for out-of-band, and low bandwidth operation
- Port Share Mode allows multiple users to simultaneously gain access to a server
- Power Association enables the switch's KVM ports to be associated with ATEN PDU power outlets for remote power management of the servers from the switch's interface
- Remote power on and off control function with Wake on LAN
- Export/import user account and configuration settings
- Manage browser access methods (browser, http, https)
- Supports ATEN KVM over IP Console Station*

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multi-language interface increasing work productivity

Advanced Security

- Supports RADIUS, LDAP, LDAPS, and MS Active Directory authentication
- Secure login from browser with TLS 1.2 data encryption and RSA 2048-bit certificates
- Choose between 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or random encryption for secure keyboard / mouse, video, and virtual media data transmission
- IP/MAC address filter for enhanced network access security protection
- Private certificate authority (CA)
- Supports password protection

Virtual Media

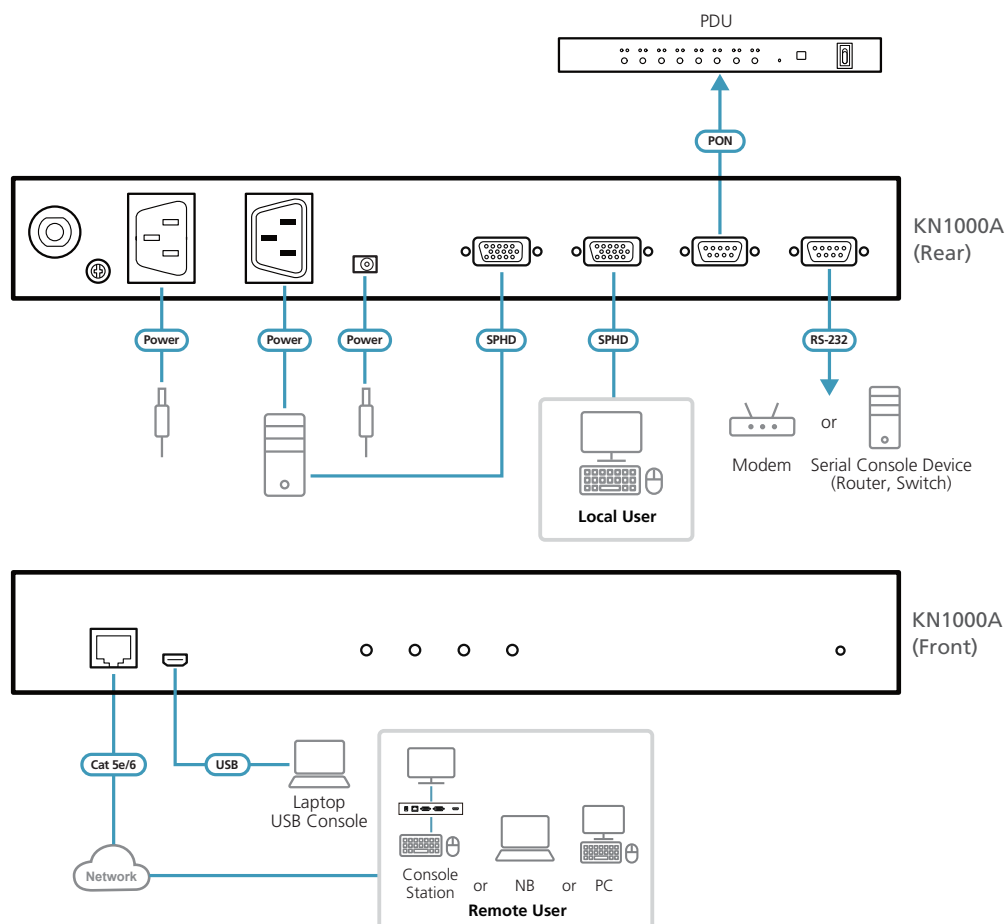
- Virtual media enables file applications, OS patching, software installation, and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives, and ISO images
- Supports Smart Card/CAC Reader

Virtual Remote Desktop

- Adjustable video quality to deliver optimal video transfer speed and minimize network bandwidth
- Full screen or scalable video display
- Exit macros support

Note: *Refer to page 7-27 for details.

Setup >



Specifications

	KN1000A
Computer Connections	
Direct / Max.	1
Console Connections	
Local / Remote	1
Connectors	
Console Ports	1 x SPHD Male (Yellow)
KVM Ports	1 x SPHD Female (Yellow)
Laptop USB Console (LUC) Port	1 x USB Mini-B Female
PON	1 x DB-9 Male
RS-232	1 x DB-9 Male
LAN Ports	1 x RJ-45 Female
Power Inlets	1 x IEC60320 C14
Power Outlets	1 x IEC60320 C13
Power	1 x DC Jack
LEDs	
Power	1 (Orange)
Power Outlets	1 (Orange)
Link	1 (Green)
10/100/1000 Mbps	1 (Orange / Orange & Green / Green)
Video	1920 x 1200 @ 60Hz; DDC2B
Emulation	
Keyboard / Mouse	USB; PS/2
Maximum Input Power Rating	100–240 V AC; 50-60Hz; 10A
Output	100–240 V AC; 50-60Hz; 9A
Power Consumption	DC5.3V: 4.48W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.88 kg (1.94 lb)
Dimensions (L x W x H)	31.00 x 8.39 x 4.20 cm (12.2 x 3.3 x 1.65 in.)
Carton Lot	3 pcs

Included Accessories

	KN1000A
Custom KVM Cable Set	•
Custom Console Cable Set	•
Laptop USB Console Cable	•
Power Adapter	•
Outlet Power Cord	•
Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5201P (1.2m); 2L-5202P (1.8 m); 2L-5203P (3 m) ; 2L-5206P (6 m)	17-9
USB KVM Cables	2L-5201U (1.2m); 2L-5202U / 2L-5202UP (1.8 m); 2L-5203U / 2L-5203UP (3 m); 2L-5205U / 2L-5205UP (5 m) 2L-5206UP (6 m)	17-10
PS/2-USB KVM Cables	2L-5301UP (1.2m); 2L-5302UP (1.8 m); 2L-5303UP (3m)	17-10
Management Software	Please refer to page 9-1	

KH1508Ai / KH1516Ai > 1-Local/Remote Share Access

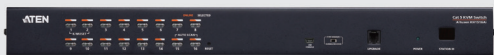
8/16-Port Multi-Interface Cat 5 KVM over IP Switch with Daisy-Chain Port



KH1516Ai



Front



Rear



Highlights

- One bus for local/remote KVM over IP access to control 8 / 16 servers
- Up to 64 user accounts – with up to 32 users able to simultaneously log in
- Daisy-Chain up to 15 extra compatible switches with control of up to 128 / 256 servers
- **Panel Array Mode™** – [allows administrators to monitor the video output of up to 42 servers on one screen simultaneously](#)
- **Laptop USB Console (LUC)** – [a dedicated USB port directly connects to a laptop for easy console operation](#)
- **Message Board for communication among remote users**
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates

Hardware

- Superior video quality – Supports the video resolutions up to 1920 x 1200 @60Hz for up to 30 meters.

Management

- Serial terminal access via a built-in serial viewer, or third-party Telnet / SSH client (such as PuTTY)
- Port Share Mode allows multiple users to simultaneously gain access to a server
- Adapter ID automatically assigns and retains unique server names and settings for each attached server
- Local Log event
- Power Association enables the switch's KVM ports to be associated with ATEN PDU power outlets for remote power management of the servers from the switch's interface

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multi-language interface increasing work productivity
- Keyboard broadcast – keyboard input can be duplicated on all the attached servers

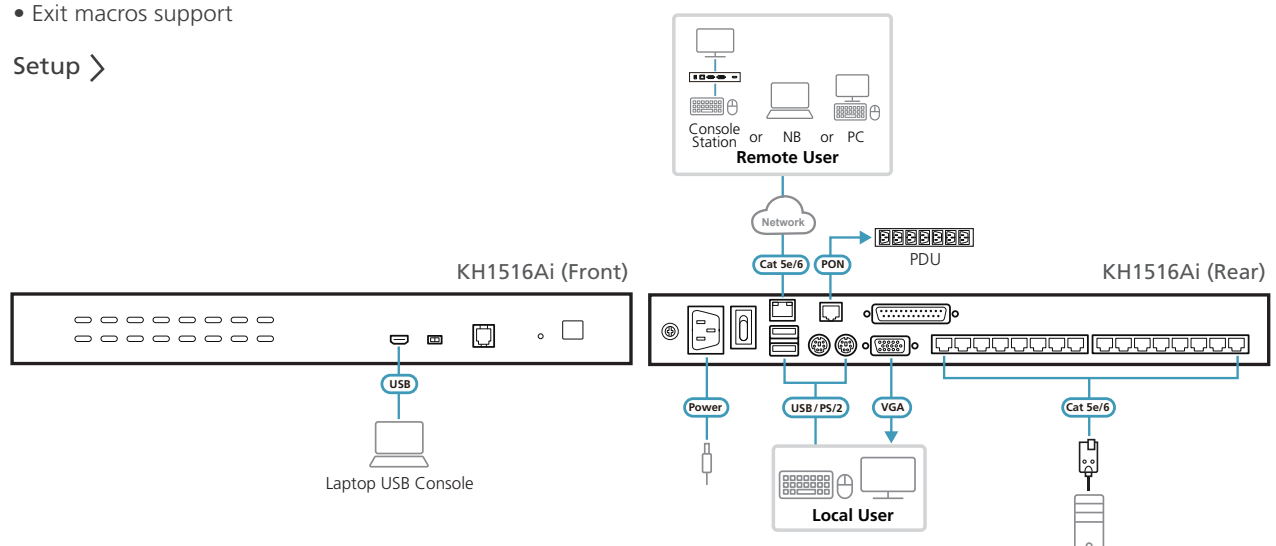
Advanced Security

- Choose between 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or random encryption for secure keyboard / mouse and video data transmission
- IP/MAC address filter for enhanced network access security protection
- Configurable user and group permissions for server access and control

Virtual Remote Desktop

- Adjustable video quality to deliver optimal video transfer speed and minimize network bandwidth
- Full screen or scalable video display
- Exit macros support

Setup >



Specifications

	KH1508Ai	KH1516Ai
Computer Connections		
Direct	8	16
Maximum	128 (via Daisy-chain)	256 (via Daisy-chain)
Console Connections		
Local / Remote	1	
Port Selection	OSD; Hotkeys; Pushbutton	
Connectors		
Console Ports	2 x USB Type A Female 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDB-15 Female (Blue)	
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Daisy Chain Ports	1 x DB-25 Male	
Power	1 x IEC 60320/C14	
LAN Ports	1 x RJ-45 Female	
Firmware Upgrade	1 x RJ-11 Female	
PON	1 X RJ-45 Female	
Laptop USB Console (LUC) Port	1 x USB Mini-B Female	
LEDs		
Online	8 (Green)	16 (Green)
Selected	8 (Orange)	16 (Orange)
Power	1 (Blue)	
Station ID	1 x 2-digit 7-segment (Orange)	
Link	1 (Orange)	
10/100/1000 Mbps	non-FHD:10/100 Mbps (Orange / Green) FHD:100/1000 Mbps (Orange / Green)	
Video		
Local	1600 x 1200 @ 60Hz (non-FHD version) 1920 x 1200 @ 60Hz (FHD version)	
Remote	1600 x 1200 @ 60Hz (non-FHD version) 1920 x 1200 @ 60Hz (FHD version)	
Emulation		
Keyboard / Mouse	PS/2; USB	
Maximum Input Power Rating	100-240V AC; 50/60 Hz; 1A	
Power Consumption	AC110V:8.7W; AC220V:8.7W	AC110V:8.9W; AC220V:8.9W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0-80% RH; Non-condensing	
Physical Properties		
Housing	Metal	
Weight	2.68 kg (5.9 lb)	2.70 kg (5.95 lb)
Dimensions (L x W x H)	43.72 x 16.36 x 4.40 cm (17.21 x 6.44 x 1.73 in.)	
Carton Lot	3 pcs	

Included Accessories

	KH1508Ai / KH1516Ai
Firmware Upgrade Cable	•
Power Cord	•
Laptop USB Console Cable	•
Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
Daisy Chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m); 2L-1715 (15 m)	17-11
KVM Adapter Cables	Please refer to page 17-4	
Management Software	Please refer to page 9-1	

KN1108VA / KN1116VA > 1-Local/1-Remote Access

8/16-Port Multi-Interface Cat 5 KVM over IP Switch



KN1116VA



Front



Rear



Highlights

- One bus for remote KVM over IP access to control 8 / 16 servers
- Up to 64 user accounts – with up to 32 users able to simultaneously log in
- Cascadable up to two levels – control up to 128 / 256 servers
- High video resolution – 1920 x 1200 @ 60Hz (reduced blanking) for local and remote sessions
- [**Panel Array Mode™** – allows administrators to monitor the video output of up to 42 servers on one screen simultaneously](#)
- [**Laptop USB Console \(LUC\)** – a dedicated USB port directly connects to a laptop for easy console operation](#)
- [**Message Board** for communication among remote users](#)
- Supports ATEN KVM over IP Console Station*
- [**PadClient** provides instant, convenient, and secure remote access to control servers through your iPad. \(available free on the Apple Store\)](#)

Note: *Refer to page 7-27 for details.

Hardware

- Dual Gigabit Ethernet Network Interface Controllers (NIC) provide complete and reliable network access
- Integrated dual power supplies provide power redundancy

Management

- Critical system event notification via SMTP email, SNMP trap, and Syslog support
- PPP mode (modem) dial-in/dial-out support for out-of-band, and low bandwidth operation
- Port Share Mode allows multiple users to simultaneously gain access to a server
- Adapter ID automatically assigns and retains unique server names and settings for each attached server
- Manage browser access methods (browser, http, https)
- Event logging and Windows-based Log Server support
- Power Association enables the switch's KVM ports to be associated with ATEN PDU power outlets for remote power management of the servers from the switch's interface
- Supports ATEN KVM over IP Console Station*

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multi-language interface increasing work productivity
- Browser-based UI allows administrative tasks to be completed without pre-installing Java
- Keyboard / mouse broadcast – keyboard and mouse inputs can be duplicated on all the attached servers

Advanced Security

- Secure login from browser with TLS 1.2 data encryption and RSA certificates (encryption key up to 4096-bit) for secure browser logins
- Choose between 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or random encryption for secure keyboard / mouse, video, and virtual media data transmission
- Automated CSR creation utility and third-party certificate authentication (CA)
- IP/MAC address filter for enhanced network access security protection

Virtual Media

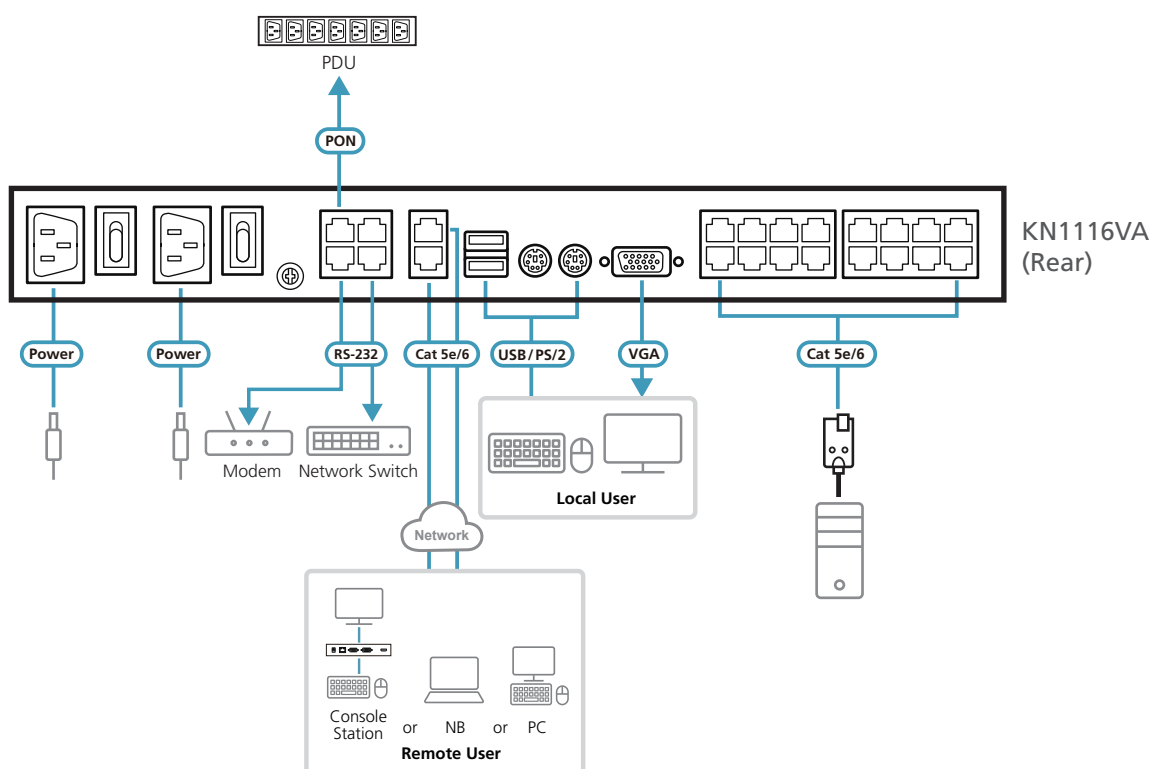
- Virtual media enables file applications, OS patching, software installation, and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives, and ISO images
- Supports Smart Card/CAC Reader

Virtual Remote Desktop

- Adjustable video quality to deliver optimal video transfer speed and minimize network bandwidth
- Full screen or scalable video display
- Exit macros support

Note: *Refer to page 7-27 for details.

Setup >



Included Accessories

	KN1108VA / KN1116VA
SA0142 Serial Adapters (RJ45-F to DB9-M; DTE to DCE)	2
Power Cords	2
Laptop USB Console Cable	•
Mounting Kit	•

Optional Accessories

Description	Page No.
KVM Adapter Cables	Please refer to page 17-4
Management Software	Please refer to page 9-1
Console Stations	Please refer to page 7-27

Specifications

	KN1108VA	KN1116VA
Computer Connections		
Direct	8	16
Maximum	128 (via Cascade)	256 (via Cascade)
Console Connections		
Local	1	
Remote	1	
Port Selection	Pushbuttons, GUI, Hotkeys	
Connectors		
Console Ports	2 x USB Type-A Female (White) 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDB-15 Female (Blue)	
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Power	2 x IEC 60320 C14	
LAN Ports	2 x RJ-45 Female	
PON	1 x RJ-45 Female	
Modem	1 x RJ-45 Female	
Serial	2 x RJ-45 Female	
USB Port	3 x USB Type-A Female	
Laptop USB Console (LUC) Port	1 x USB Mini-B Female	
Audio	2 x Audio Jack Female	
LEDs		
Online	8 (Green)	16 (Green)
Power	2 (Blue)	
Link 10 / 100 / 1000 Mbps	2 (Red / Orange / Green)	
Video		
Local / Remote	1920 x 1200 @ 60 Hz	
Emulation		
Keyboard / Mouse	PS/2; USB	
Maximum Input Power Rating	100-240V AC; 50-60Hz; 1A	
Power Consumption	AC 110V:13.6W; AC220V:14.5W	AC 110V:14W; AC220V:15W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	3.52 kg (7.75 lb)	3.56 kg (7.84 lb)
Dimensions (L x W x H)	43.84 x 28.78 x 4.40 cm (17.26 x 11.33 x 1.73 in.)	
Carton Lot	1 pc	

KN2124VA / KN2140VA KN4124VA / KN4140VA

24/40-Port Multi-Interface Cat 5 KVM over IP Switch



KN Series
Microsite

KN4124VA



Front



Rear



KN4140VA



Front



Rear



Highlights

- Two / four buses for remote KVM over IP access to control up to 40 servers
- Up to 64 user accounts – with up to 32 users able to simultaneously log in
- Cascadable up to two levels – control up to 512 servers¹
- **Panel Array Mode™** – [allows administrators to monitor the video output of up to 64 servers on one screen simultaneously](#)
- **Multi-View** supports computers with multiple video outputs
- **Single sign-on** for multi-system setup creates easy management and integration
- **Message Board** for communication among remote users
- **Integration with ATEN CC2000 Centralized Management Software & CCVSR Video Session Recording Software²**
- **PadClient** provides instant, convenient, and secure remote access to control servers through your iPad. (available free on the Apple Store)³
- Supports ATEN KVM over IP Console Station⁴
- Supports Java-free Web Client Viewer running directly off the browser without Java or browser plug-in installation.

Note: 1. Refer to page 17-13 for details on compatible KVM switches.

2. Refer to page 9-1, *Management Softwares*, for details.

3. Please use the QR code to download the PadClient App from the Apple Store.

4. Refer to page 7-27 for details.



PadClient App

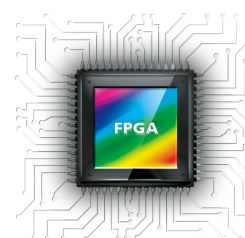
Key Enhancements:



- High grade security – supports FIPS 140-2 level 1 security standards



- Extreme virtual media speed – 2x faster virtual media transmission speed



- Advanced FPGA graphics processor – with an HD resolution of 1920 x 1200

Model No.	Number of Active Sessions
KN2124VA	1-local and 2-remote user access
KN2140VA	1-local and 2-remote user access
KN4124VA	1-local and 4-remote user access
KN4140VA	1-local and 4-remote user access

Hardware

- Self-diagnostics to help resolve connection problems
- Dual Gigabit Ethernet Network Interface Controllers (NIC) provide complete and reliable network access
- Integrated dual power supplies provide reliable power redundancy

Management

- Customizable critical system event notification via SMTP email, SNMP trap, and Syslog support
- SNMP agent supports standard SNMP for device monitoring and configuration
- Port Share Mode allows multiple users to simultaneously gain access to a server
- Adapter ID automatically assigns and retains unique server names and settings for each attached server
- Manage browser access methods (browser, http, https)
- Event logging and Windows-based Log Server support
- [Power Association enables the switch's KVM ports to be associated with ATEN PDU power outlets for remote power management of the servers from the switch's interface](#)
- Supports ATEN KVM over IP Console Station*

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multi-language interface increasing work productivity
- Browser-based UI allows administrative tasks to be completed without pre-installing Java
- Launch multiple Virtual Remote Desktops and control multiple servers from one login session
- Keyboard / Mouse broadcast – keyboard and mouse inputs can be duplicated on all the attached servers
- Supports Java-free Web Client Viewer running directly off the browser without Java or browser plug-in installation.

Advanced Security

- Secure login from browsers with TLS 1.2 encryption and RSA certificates (encryption key up to 4096-bit) for secure browser logins
- Choose between 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or random encryption for secure keyboard / mouse, video, and virtual media data encryption
- Automated CSR creation utility and third party certificate authentication (CA)
- IP/MAC address filter for enhanced network access security protection

Virtual Media

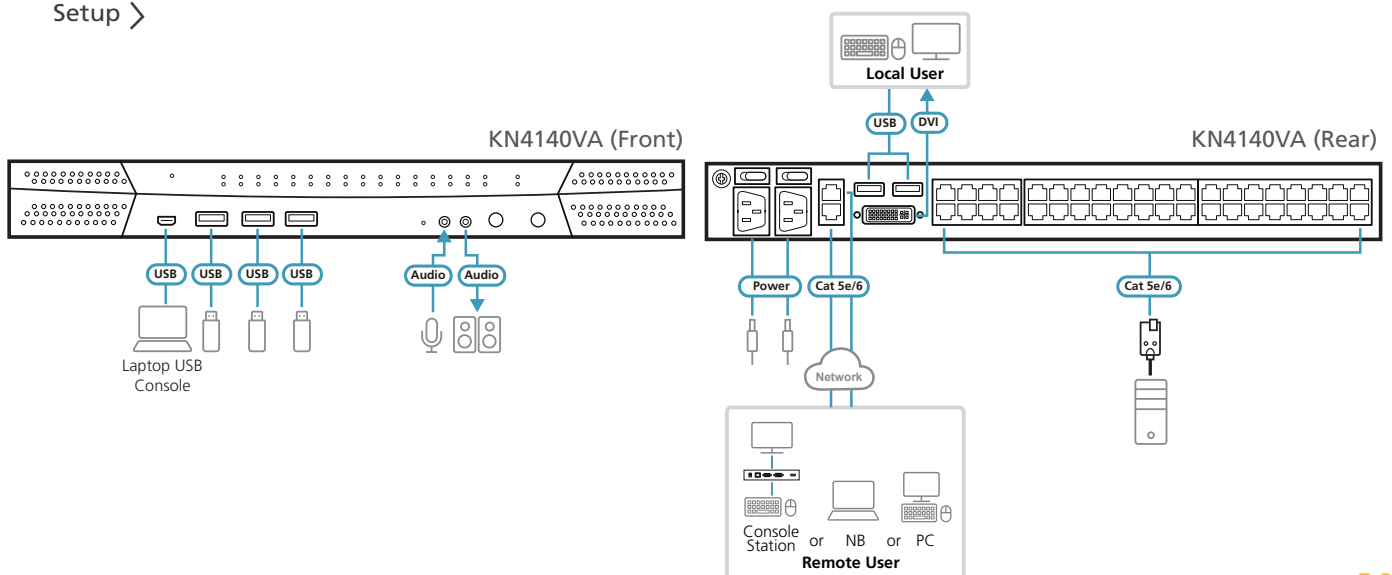
- Virtual media enables file applications, OS patching, software installation, and diagnostic testing
- Works with USB enabled servers in the operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives, and ISO images
- Supports Smart Card/CAC Reader

Virtual Remote Desktop

- Adjustable video quality to deliver optimal video transfer speed and minimize network bandwidth
- Full screen or scalable video display
- Exit macros support

Note: *Refer to page 7-27 for details.

Setup >



Specifications

	KN2124VA	KN4124VA	KN2140VA	KN4140VA
Computer Connections				
Direct	24		40	
Maximum	512 (via Cascade)*			
Console Connections				
Local	1			
Remote	2	4	2	4
Port Selection	Pushbuttons, Hotkeys, GUI			
Connectors				
Console Ports	2 x USB Type-A Female (White) 1 x DVI-I Female (White)			
KVM Ports	24 x RJ-45 Female		40 x RJ-45 Female	
USB Port	3 x USB Type-A Female			
Audio	2 x Audio Jack Female			
Laptop USB Console (LUC) Port	1 x USB Mini-B Female			
LAN Ports	2 x RJ-45 Female			
Power	2 x IEC 60320 C14			
LEDs				
Online / Selected	24 (Green / Orange)		40 (Green / Orange)	
Power	2 (Blue)			
Link 10 / 100 / 1000 Mbps	2 (Red / Orange / Green)			
Video				
Local / Remote	1920 x 1200 @ 60Hz			
Emulation				
Keyboard / Mouse	PS/2; USB			
Maximum Input Power Rating	100-240V AC; 50-60Hz; 1A			
Power Consumption	AC 110V:34.3W; AC 220V:34.3W	AC 110V:38.2W; AC 220V:38.5W	AC 110V:36.5W; AC 220V:36W	AC 110V:41.2W; AC 220V:41.5W
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0-80% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	5.48 kg (12.07 lb)	5.51 kg (12.14 lb)	5.54 kg (12.2 lb)	5.56 kg (12.25 lb)
Dimensions (L x W x H)	43.36 x 41.21 x 4.40 cm (17.07 x 16.22 x 1.73 in.)			
Carton Lot	1 pc			

Note: *Refer to page 17-13 for details on compatible KVM switches.

Included Accessories

	KN2124VA / KN2140VA KN4124VA / KN4140VA
Lok-U-Plugs	2
Lok-U-Plug Installation Tool	•
Power Cords	2
Mounting Kit	•

Optional Accessories

Description	Page No.
KVM Adapter Cables	Please refer to page 17-4
Management Software	Please refer to page 9-1
Console Stations	Please refer to page 7-27

KN1132V / KN2116VA / KN2132VA KN4116VA / KN4132VA / KN4164V KN8132V / KN8164V

16/32/64-Port Multi-Interface Cat 5 KVM over IP Switch



KN Series
Microsite

KN8164V



Front



Rear



KN8132V



Front



Rear



Highlights

- One / two / four / eight bus(es) for remote KVM over IP access to control up to 64 servers
- Up to 64 user accounts – with up to 32 users able to simultaneously log in
- Cascadable up to two levels – control up to 512 servers¹
- **Panel Array Mode™** – [allows administrators to monitor the video output of up to 64 servers on one screen simultaneously](#)
- [Multi-View supports computers with multiple video outputs](#)
- [Single sign-on for multi-system setup creates easy management and integration](#)
- [Message Board for communication among remote users](#)
- [Integration with ATEN CC2000 Centralized Management Software & CCVSR Video Session Recording Software²](#)
- [PadClient provides instant, convenient, and secure remote access to control servers through your iPad. \(available free on the Apple Store\)³](#)
- Supports ATEN KVM over IP Console Station⁴
- Supports Java-free Web Client Viewer running directly off the browser without Java or browser plug-in installation.

Note: 1. Refer to page 17-13 for details on compatible KVM switches.

2. Refer to page 9-1, *Management Softwares*, for details.

3. Please use the QR code to download the PadClient App from the Apple Store.

4. Refer to page 7-27 for details.



PadClient App

Model No.	Number of Active Sessions
KN1132V	1-local and 1-remote user access
KN2116VA	1-local and 2-remote user access
KN2132VA	1-local and 2-remote user access
KN4116VA	1-local and 4-remote user access
KN4132VA	1-local and 4-remote user access
KN4164V	1-local and 4-remote user access
KN8132V	1-local and 8-remote user access
KN8164V	1-local and 8-remote user access

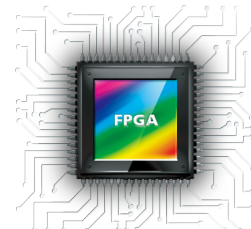
Key Enhancements:



- High grade security – supports FIPS 140-2 level 1 security standards



- Extreme virtual media speed – 2x faster virtual media transmission speed



- Advanced FPGA graphics processor – with an HD resolution of 1920 x 1200

Hardware

- Self-diagnostics to help resolve connection problems
- Dual Gigabit Ethernet Network Interface Controllers (NIC) provide complete and reliable network access
- Integrated dual power supplies provide reliable power redundancy

Management

- Customizable critical system event notification via SMTP email, SNMP trap, and Syslog support
- SNMP agent supports standard SNMP for device monitoring and configuration
- PPP mode (modem) dial-in/dial-out support for out-of-band, and low bandwidth operation
- Port Share Mode allows multiple users to simultaneously gain access to a server
- Adapter ID automatically assigns and retains unique server names and settings for each attached server
- Manage browser access methods (browser, http, https)
- Event logging and Windows-based Log Server support
- Power Association enables the switch's KVM ports to be associated with ATEN PDU power outlets for remote power management of the servers from the switch's interface
- Supports ATEN KVM over IP Console Station*

Easy-to-Use Interface

- Browser-based and AP GUIs offer a unified multi-language interface increasing work productivity
- Browser-based UI allows administrative tasks to be completed without pre-installing Java
- Launch multiple Virtual Remote Desktops and control multiple servers from one login session
- Keyboard / Mouse broadcast – keyboard and mouse inputs can be duplicated on all the attached servers
- Supports Java-free Web Client Viewer running directly off the browser without Java or browser plug-in installation.

Advanced Security

- Secure login from browser with TLS 1.2 data encryption and RSA certificates (encryption key up to 4096-bit) for secure browser logins
- Choose between 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or random encryption for secure keyboard / mouse, video, and virtual media data encryption
- Automated CSR creation utility and third party certificate authentication (CA)
- IP/MAC address filter for enhanced network access security protection

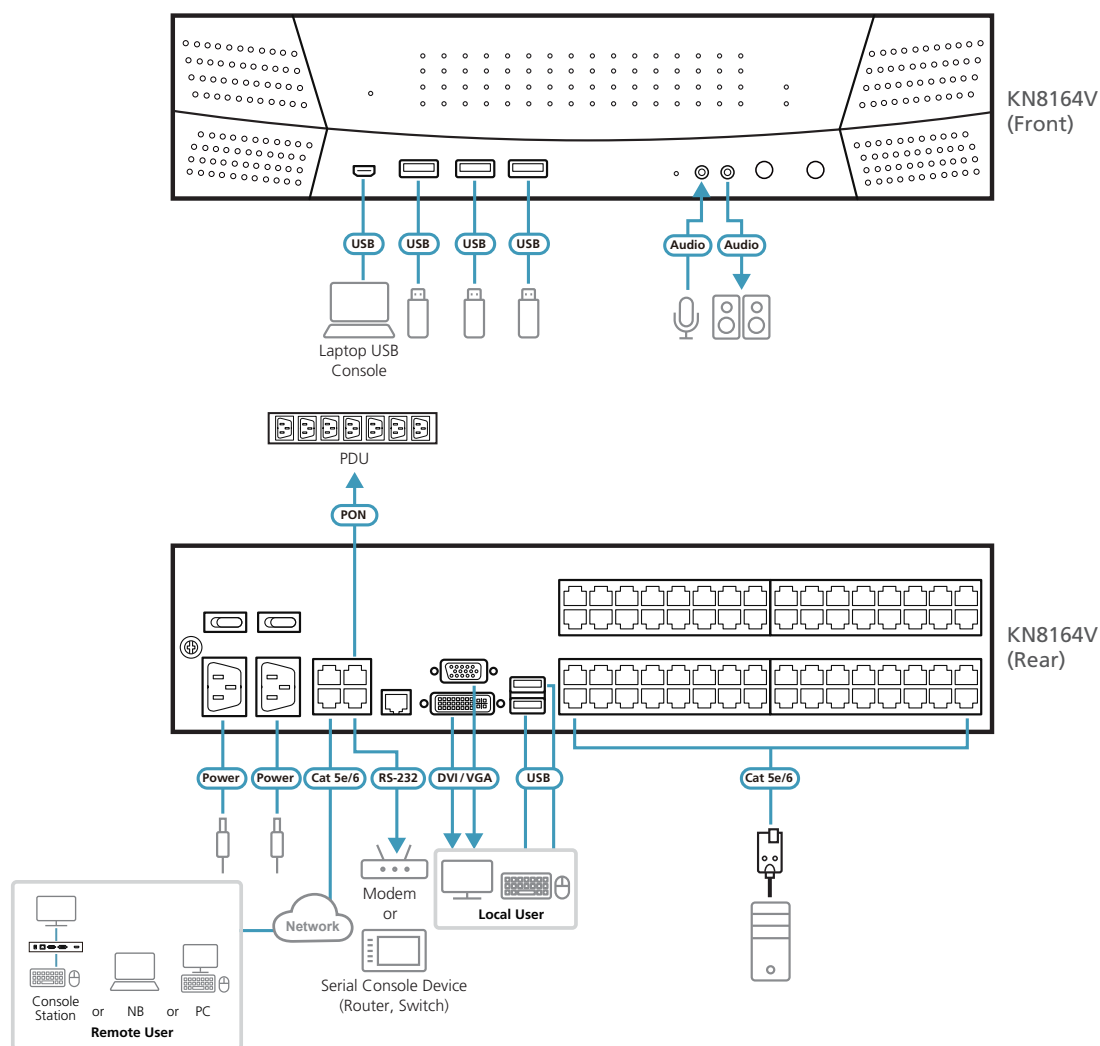
Virtual Media

- Virtual media enables file applications, OS patching, software installation, and diagnostic testing
- Works with USB enabled servers in the operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives, and ISO images
- Supports Smart Card/CAC Reader

Virtual Remote Desktop

- Adjustable video quality to deliver optimal video transfer speed and minimize network bandwidth
- Full screen or scalable video display
- Exit macros support

Note: *Refer to page 7-27 for details.



Included Accessories

	KN1132V / KN2116VA / KN2132VA / KN4116VA / KN4132VA / KN4164V / KN8132V / KN8164V
SA0142 Serial Adapters (RJ45-F to DB9-M; DTE to DCE)	2
Lok-U-Plugs	2
Lok-U-Plug Installation Tool	•
Power Cords	2
Mounting Kit	•

Optional Accessories

Description	Page No.
KVM Adapter Cables	Please refer to page 17-4
Management Software	Please refer to page 9-1
Console Stations	Please refer to page 7-27

Specifications

	KN2116VA	KN4116VA	KN1132V	KN2132VA	KN4132VA	KN8132V	KN4164V	KN8164V
Computer Connections								
Direct	16		32				64	
Maximum	512 (via Cascade)*							
Console Connections								
Local	1							
Remote	2	4	1	2	4	8	4	8
Port Selection	Pushbuttons, Hotkeys, GUI							
Connectors								
Console Ports	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x VGA HDB-15 (Blue) 1 x RJ-45 Female (Black)							
KVM Ports	16 x RJ-45 Female		32 x RJ-45 Female				64 x RJ-45 Female	
USB Port	3 x USB Type A Female							
Audio	2 x Audio Jack Female							
Laptop USB Console (LUC) Port	1 x USB Mini-B Female							
PON	1 x RJ-45 Female							
Serial	1 x RJ-45 Female							
LAN Ports	2 x RJ-45 Female							
Power	2 x IEC 60320 C 14							
LEDs								
Online / Selected	16 (Green / Orange)		32 (Green / Orange)				64 (Green / Orange)	
Power	2 (Blue)							
Link 10 / 100 / 1000 Mbps	2 (Red / Orange / Green)							
Video								
Local / Remote	1920 x 1200 @ 60Hz							
Emulation								
Keyboard / Mouse	PS/2; USB							
Maximum Input Power Rating	100-240V AC ; 50-60Hz; 1A							
Power Consumption	AC110V:32.97W; AC220V:33.18W	AC110V:50.3W; AC220V:48.9 W	AC110V:26.88W; AC220V:27.83W	AC110V:39.5W; AC220V:39.7W	AC110V:48.4W; AC220V:47W	AC110V:69.83W AC220V:68.04W	AC110V:49.4W; AC220V:47.3W	AC110V:75.18W; AC220V:73.5W:
Environmental								
Operating Temperature	0 – 40°C							
Storage Temperature	-20 – 60°C							
Humidity	0 – 80% RH, Non-condensing							
Physical Properties								
Housing	Metal							
Weight	5.56 kg (12.25 lb)	5.60 kg (12.33 lb)	5.54 kg (12.2 lb)	5.69 kg (12.53 lb)	5.73 kg (12.62 lb)	5.80 kg (12.78 lb)	7.00 kg (15.42 lb)	7.07 kg (15.57 lb)
Dimensions (L x W x H)	43.36 x 41.21 x 4.40 cm (17.07 x 16.22 x 1.73 in.)						43.36 x 41.26 x 8.80 cm (17.07 x 16.24 x 3.46 in.)	
Carton Lot	1 pc							

Note: *Refer to page 17-13 for details on compatible KVM switches.

KA8270 / KA8280 KA8278 / KA8288

KVM over IP Console Station



KA8288



Front



Rear



Highlights

- A standalone Java-free console that replaces PC or NB, enabling users to remotely access the servers connected to ATEN's KVM over IP switches
- Panel Array Mode™ – allows administrators to monitor the video output of up to 64 servers on one screen simultaneously
- Through Cascade port, Console Station can connect with the second one for network access sharing
- Supports Boundless Switching – allows users to control up to 4 screens between two console stations (for example, KA8288+KA8288) by using one set of keyboard & mouse
- Advanced FPGA graphics processor – with a Full HD resolution of 1920 x 1200 @ 60 Hz

Hardware

- A standalone Java-free console that replaces PC or NB, enabling users to remotely access the servers (Interface: VGA, DVI, HDMI, DP, and Serial) connected to ATEN KVM over IP switches
- Support video output with 1 VGA (KA8270), 1 HDMI (KA8280), 1 VGA & 1 HDMI (KA8278), or 2 HDMI (KA8288)
- Advanced FPGA graphics processor – with a Full HD resolution of 1920 x 1200
- Through Cascade port, Console Station can connect with the second one for network access sharing
- Wall Mountable – standard mounting kit included
- Space-saving 0U rack mount design for rear rack mounting
- Power-saving with fanless design

Management

- Single sign-on to consolidate the management of multiple ATEN's KVM over IP switches
- Panel Array Mode™ – allows administrators to monitor the video output of up to 64 servers on one screen simultaneously
- Supports Boundless Switching – allows users to control up to 4 screens between two console stations (for example, KA8288+KA8288) by using one set of keyboard & mouse
- Exit Macros support
- Extended desktop – supports extended display for remotely connected PCs on the dual screens of KA8278 / KA8288
- Share screen – shares screen content from one console station to another for real-time collaboration
- Supports Telnet / SSH for connecting to and management of console devices

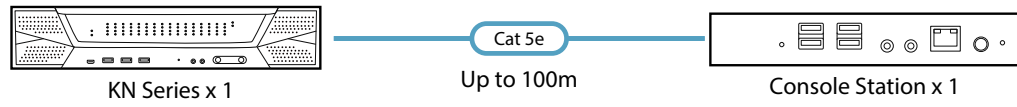
Virtual Media

- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Support USB DVD/CD drives, USB mass storage devices, and USB smartcard

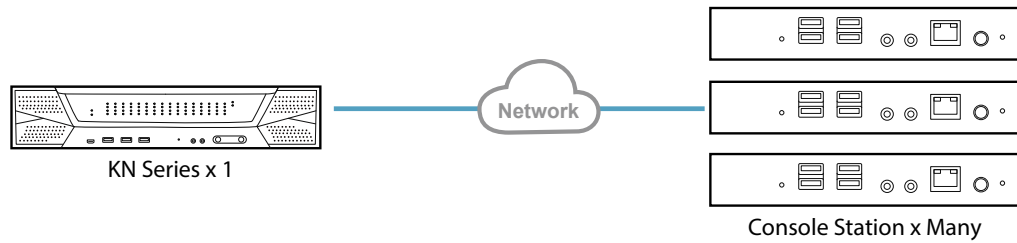
Security

- The Console Station boasts a metal case and features a proprietary ATEN operating system, eliminating desktop PC virus concerns
- Exclusive technology for connection to the remote PCs also provides multiple benefits, such as easy deployment, high compatibility, and is a Java-free connection
- Lock screen password – prevents unauthorized users from accessing the console station when unattended

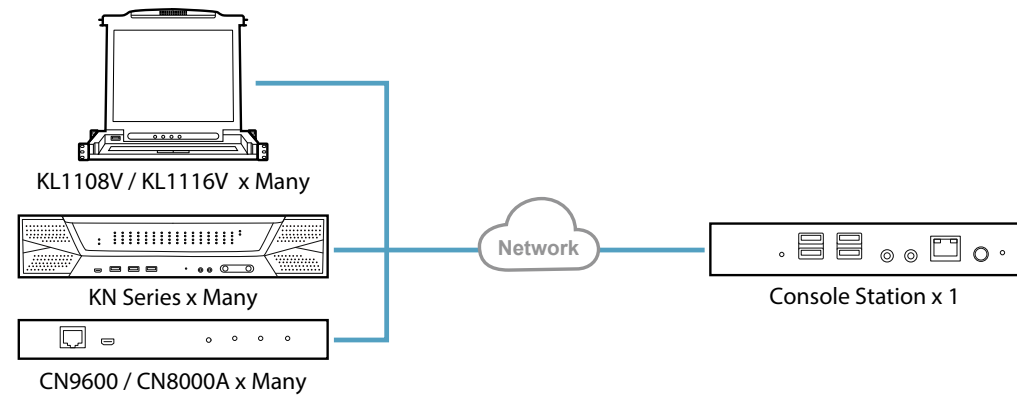
1 to 1 (Extender)



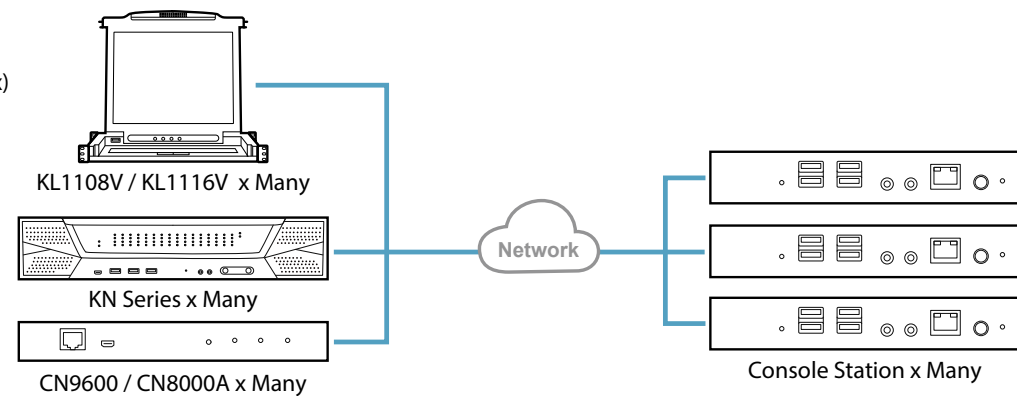
1 to Many (Splitter)



Many to 1 (Switch)



Many to Many (Matrix)



Specifications

	KA8270	KA8280	KA8278	KA8288
Connectors				
Video	1 x HDB-15 Female	1 x HDMI Female	1 x HDB-15 Female 1 x HDMI Female	2 x HDMI Female
RS-232	1 x DB-9 Male (Reserved)			
Power	1 x DC Jack			
Audio	2 x Audio Jack Female			
LAN Ports	1 x RJ-45 Female			
Keyboard	1 x USB Type-A Female			
Mouse	1 x USB Type-A Female			
USB Port	2 x USB Type-A Female			
Cascade Port*	1 x RJ-45 Female			
LEDs				
Power	1 (Blue)			
Video	1920 x 1200 @ 60Hz			
Power Consumption	DC 5V:4.66W		DC 5V:6.53W	
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	0.75 kg (1.65 lb)		0.8 kg (1.76 lb)	
Dimensions (L x W x H)	17.42 x 15.54 x 2.88 cm (6.86 x 6.12 x 1.13 in.)			
Carton Lot	5 pcs			

Note: *Provides the cascaded console station with network access.

Compatible Appliances

Description	Model
KVM over IP switches	KN1132V, KN2116VA, KN4116VA, KN2132VA, KN4132VA, KN4164V, KN8132V, KN8164V, KN2124VA, KN4124VA, KN2140VA, KN4140VA, CN8000A, KN1000A, KN1108VA, KN1116VA, KL1108V, KL1116V, CN9600, CN9000, CN9950*

Note: *Only supports full HD

LCD KVM Switches

ATEN LCD KVM switches offer a space-saving, streamlined approach to KVM switch technology by integrating a TFT-LCD panel, full keyboard, and touchpad in a 1U housing. The TFT-LCD display is built into the cover; the keyboard and touchpad are built into the base. Slide the KVM module out, lift the cover up, and you are ready to work.



- **Ultra Short Depth Design**

ATEN ultra short depth design is applied in both single rail and dual rail models, fits all 19" equipment cabinets, and is especially suitable for shallow racks and any computer room where space is at a premium.

- **Dual Rail Flexibility**

The dual rail design enables the LCD monitor, keyboard, and touchpad to operate independently of each other. To maximize space utilization, the keyboard and touchpad modules can slide back to "hide away" when not in use, while the thin profile LCD monitor rotates back, flush against the rack, to allow for convenient monitoring of computer activity.

- **Exclusive LED Illumination Light**

ATEN's LCD KVM features an LED illumination light, designed to illuminate the keyboard and touchpad in a dark room. The LED illumination light is ON by default as you lift up the LCD and can be switched OFF by pushbutton if needed. The unique design serves to brighten low-light conditions and provide a more flexible working environment.

- **Enhanced Console Control**

The LCD KVM switches contain a second console to provide administrators with the convenience and flexibility of using a standard keyboard / monitor / mouse console. It also allows two users to share access and control of the servers.

- **Dual Interface – Multi Platform Support**

The LCD KVM switches support optional custom cables or converters with PS/2 and USB interfaces. They are also interoperable on different OS systems (Windows, Mac, Sun, or Linux).

- **Space Efficient All-in-One Design**

ATEN's LCD KVM switches feature a retractable keyboard, LCD monitor and touchpad with an 8- or 16-port KVM switch with 1U housing.

- **Easy Installation Options**

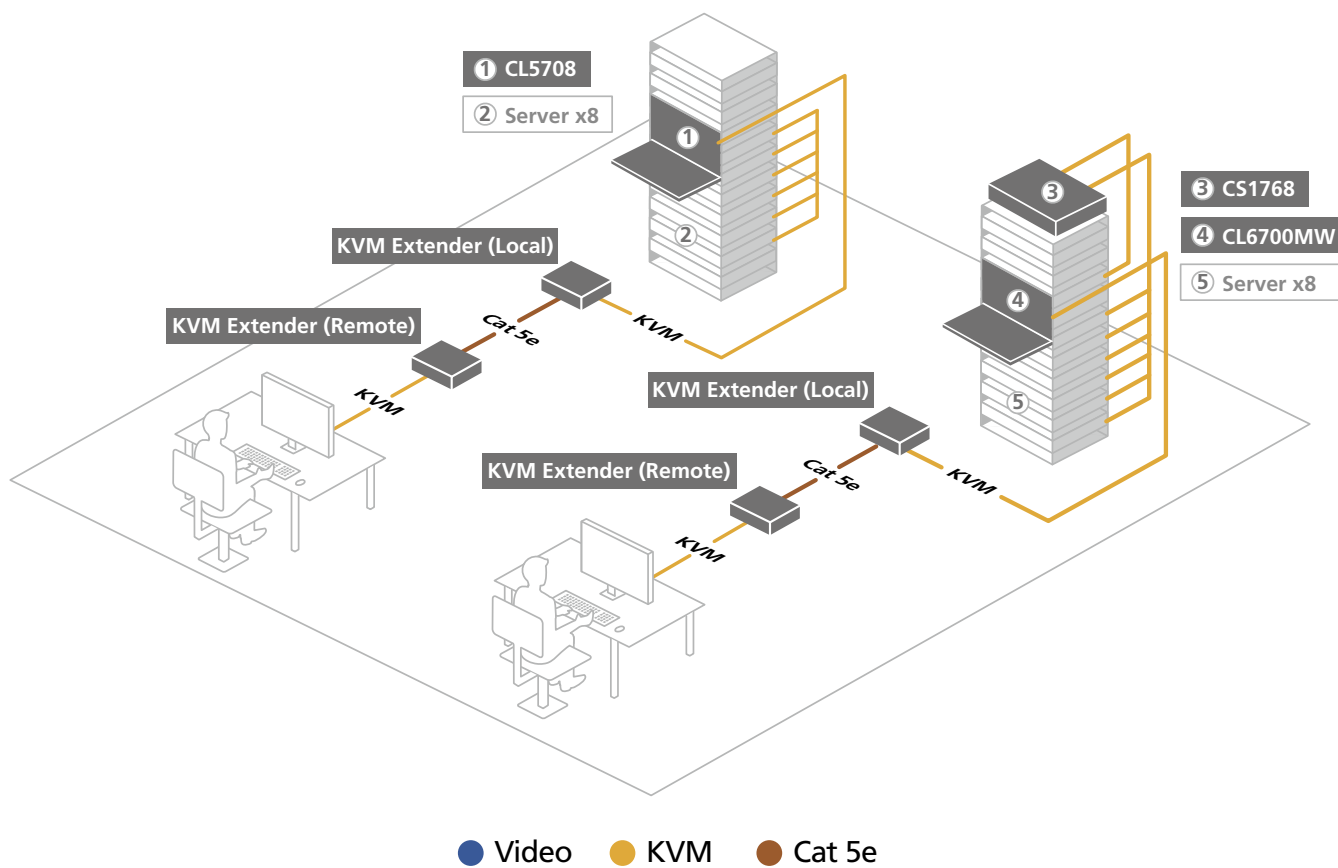
All LCD KVM switches come with a Standard Rack Mount Kit which requires two people to complete the installation. The Single Person - Easy Installation Rack Mount Kit is available as a separate purchase.

- **Convenient Security via Fingerprint Identification**

Each user can scan up to 4 fingers (available on models with Fingerprint Identification Reader only).

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Feature Comparison

Model No.		CL3884	CL5708I*	CL5716I*
TFT-LCD Size		CL3884NW: 18.5" (1920 x 1080 @ 60 Hz)	CL5708IM: 17" CL5708IN: 19" (1280 x 1024 @ 75 Hz)	CL5716IM: 17" CL5716IN: 19" (1280 x 1024 @ 75 Hz)
Ports		4	8	16
Interface	Keyboard, Mouse	USB	PS/2-USB	PS/2-USB
	Video	HDMI	VGA	VGA
Expansion		16 (Cascade)	128 (Daisy-chain)	256 (Daisy-chain)
External Console		USB, HDMI	PS/2, USB, HDB-15 (SPHD)	PS/2, USB, HDB-15 (SPHD)
Keyboard Emulation		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Single Rail/Dual Rail		Dual Rail	Single Rail	Single Rail
Port Selection		OSD, Hotkey, Pushbutton, RS-232 commands	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton
LCD KVM Depth (cm)**		63.10	CL5708IM: 64.27 CL5708IN: 68.92	CL5716IM: 64.27 CL5716IN: 68.92

Model No.		CL3800	CL3700	CL3100
LCD Module		CL3800NW: 18.5" (1920 x 1080 @ 60 Hz) CL3800NX: 18.5" (1366 x 768 @ 60 Hz)	CL3700NW: 18.5" (1920 x 1080 @ 60 Hz) CL3700NX: 18.5" (1366 x 768 @ 60 Hz)	CL3100NX: 18.5" (1366 x 768 @ 60 Hz)
Ports		1	1	1
Interface	Keyboard, Mouse	USB	USB	USB
	Video	HDMI, DVI-D, VGA	HDMI	VGA
Expansion		N/A	N/A	N/A
External Console		USB, HDMI, DVI-D, HDB-15	USB, HDMI	USB, HDB-15
Keyboard Emulation		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Single Rail/Dual Rail		Dual Rail	Single Rail	Single Rail
Console Selection		Hotkey	Hotkey	Hotkey
LCD KVM Depth (cm)**		51.42	47.70	47.70

Model No.		CL6700	CL3000	CL5800	CL1000
TFT-LCD Size		CL6700MW: 17.3" (1920 x 1080 @ 60 Hz)	CL3000N: 19" (1280 x 1024 @ 75 Hz)	CL5800N: 19" (1280 x 1024 @ 75 Hz)	CL1000M: 17" CL1000N: 19" (1280 x 1024 @ 75 Hz)
Ports		1	1	1	1
Interface	Keyboard, Mouse	USB	PS/2-USB	PS/2-USB	PS/2-USB
	Video	HDMI, DVI-D, VGA	VGA	VGA	VGA
Expansion		N/A	N/A	N/A	N/A
External Console		USB, HDMI, DVI-D, HDB-15	PS/2, USB, HDB-15	PS/2, USB, HDB-15	N/A
Keyboard Emulation		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux
Single Rail/Dual Rail		Single Rail	Single Rail	Dual Rail	Single Rail
Console Selection		Hotkey	Hotkey	Hotkey	N/A
LCD KVM Depth (cm)**		58.92	58.92	68.04	CL1000M: 53.83 CL1000N: 58.52

Note:

*CL5708I / CL5716I has over IP function.

**Please refer to 8-23 for optional rack mount kits for different rack depth.

Model No.		CL3108	CL3116	CL1308	CL1316
TFT-LCD Size		CL3108NX: 18.5" (1366 x 768 @ 60 Hz)	CL3116NX: 18.5" (1366 x 768 @ 60 Hz)	CL1308N: 19" (1280 x 1024 @ 75 Hz)	CL1316N: 19" (1280 x 1024 @ 75 Hz)
Ports		8	16	8	16
Interface	Keyboard, Mouse	PS/2-USB	PS/2-USB	PS/2-USB	PS/2-USB
	Video	VGA	VGA	VGA	VGA
Expansion		128 (Cascade)	256 (Cascade)	128 (Cascade)	256 (Cascade)
External Console		N/A	N/A	N/A	N/A
Keyboard Emulation		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Single Rail/Dual Rail		Single Rail	Single Rail	Single Rail	Single Rail
Port Selection		OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton
LCD KVM Depth (cm)**		63.17	63.17	68.92	68.92

Model No.		CL6708	CL5708*	CL5716*
TFT-LCD Size		CL6708MW: 17.3" (1920 x 1080 @ 60 Hz)	CL5708M: 17" CL5708N: 19" (1280 x 1024 @ 75 Hz)	CL5716M: 17" CL5716N: 19" (1280 x 1024 @ 75 Hz)
Ports		8	8	16
Interface	Keyboard, Mouse	USB	PS/2-USB	PS/2-USB
	Video	DVI-I	VGA	VGA
Expansion		64 (Cascade)	256 (Daisy-chain)	512 (Daisy-chain)
External Console		USB, DVI-I	PS/2, USB, HDB-15 (SPHD)	PS/2, USB, HDB-15 (SPHD)
Keyboard Emulation		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Single Rail/Dual Rail		Single Rail	Single Rail	Single Rail
Port Selection		OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton
LCD KVM Depth (cm)**		68.92	CL5708M: 64.27 CL5708N: 68.92	CL5716M: 64.27 CL5716N: 68.92

Model No.		CL5808	CL5816	CL1008	CL1016
TFT-LCD Size		CL5808N: 19" (1280 x 1024 @ 75 Hz)	CL5816N: 19" (1280 x 1024 @ 75 Hz)	CL1008M: 17" (1280 x 1024 @ 75 Hz)	CL1016M: 17" (1280 x 1024 @ 75 Hz)
Ports		8	16	8	16
Interface	Keyboard, Mouse	PS/2-USB	PS/2-USB	PS/2-USB	PS/2-USB
	Video	VGA	VGA	VGA	VGA
Expansion		256 (Daisy-chain)	512 (Daisy-chain)	128 (Daisy-chain)	256 (Daisy-chain)
External Console		PS/2, USB, HDB-15 (SPHD)	PS/2, USB, HDB-15 (SPHD)	N/A	N/A
Keyboard Emulation		Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux	Windows, Linux
Single Rail/Dual Rail		Dual Rail	Dual Rail	Single Rail	Single Rail
Port Selection		OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton
LCD KVM Depth (cm)**		68.04	68.04	64.02	64.02

Note:

*Fingerprint reader version is available.

**Please refer to 8-23 for optional rack mount kits for different rack depth.

CL3884

4-Port USB HDMI Multi-View Dual Rail WideScreen LCD KVM Switch



Front



Rear



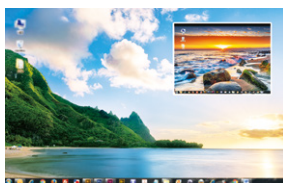
Features

- **Multi-view console** controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Integrated KVM console with dual rail design and a 18.5" LED-backlit LCD monitor allows you to work with your rack-mounting equipment in narrow spaces
- **Dual rail design** allows LED-backlit LCD monitor and keyboard/touchpad modules to operate independently
- Supports an extra console via USB/HDMI connectors for up to two console displays
- Display mode layout customization
- Superior video quality – 1920 x 1080 @ 60Hz
- Computer selection via pushbuttons, hotkeys, OSD, and RS-232 commands
- Boundless Switching – simply moves the mouse cursor across windows to switch to other video sources
- **Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Quick Access Toolbar – intuitive user interface for editing
- Easily resizes and/or repositions any PiP or PbP to suit users' viewing needs
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- Cascade up to 2 levels – controls up to 16 computers (with up to 4 x 4 Multi-View mode)
- Additional hot-pluggable USB peripheral port on front panel
- Auto Scan mode – enables continuous monitoring of user-selected computers
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.

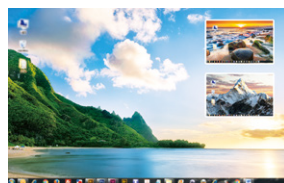
- **Quad View** displays all four computers / video sources on the display



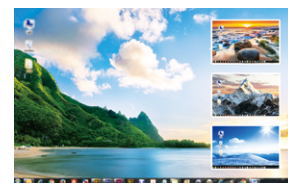
- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port.

Specifications

CL3884NW	
Computer Connections	
Direct	4
Maximum	16 (via Cascade)
Port Selection	OSD, Hotkey, Pushbutton, RS-232 commands
Connectors	
KVM Ports	4 x HDMI Female, 4 x USB Type B Female, 4 x 3.5mm Audio Jack Female (Green)
USB Port	1 x USB Type A Female (Front)
Serial	1 x RJ-45 Female
Power	1 x IEC 60320/C14
External Console Ports	1 x HDMI Female, 2 x USB Type A Female, 1 x 3.5mm Audio Jack Female (Green)
LEDs	
Power	1 (Dark Green)
Lock	1 x Num Lock (Green), 1 x Caps Lock (Green), 1 x Scroll Lock (Green)
LCD Module	18.5" (1920 x 1080 @ 60Hz)
Emulation	
Keyboard / Mouse	USB
Maximum Input Power Rating	100-240V AC, 50-60Hz, 1A
Power Consumption	AC110V: 35.2W; AC220V: 35.7W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 85% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	11.20 kg (24.67 lb)
Dimensions (L x W x H)	48.06 x 63.10 x 4.28 cm (18.92 x 24.84 x 1.69 in.)
Body Dimensions (L x W x H)	44.92 x 58.40 x 4.28 cm (17.68 x 22.99 x 1.69 in.)
Carton lot	1 pc
Included Accessories	2x USB HDMI KVM Cables; 2x L Brackets; 1x Power Cord; 1x Standard Mounting Kit

Note: Body Dimensions exclude I/O ports, handles, and mounting brackets.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cables	2L-7D02UH (1.8 m)	17-11
LockPro-HDMI Cable Lock	2X-EA12	17-12
Rack Mount Kits	Please refer to page 8-23	

CL5708I / CL5716I

1-Local/Remote Share Access 8/16-Port PS/2-USB VGA Single Rail LCD KVM over IP Switch



Front



Rear

• CL5708I



• CL5716I



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Daisy chain up to 15 additional units – controls up to 128/256 computers from a single console
- Integrated KVM console with 17" or 19" LED-backlit LCD monitor in a single rail housing
- 1 remote bus for KVM over IP access – allowing IT administrators to remotely monitor and control up to 8/16 servers
- Mouse DynaSync™ – automatically synchronizes the local and remote mouse movements
- Front panel USB port allows each computer to access USB peripherals
- Dual Interface – supports computers and console with PS/2 or USB keyboards and mice
- Supports multimedia USB keyboards for Windows, Mac and Sun
- Superior video quality – up to 1280 x 1024 @ 75Hz; DDC2B for the local LCD module; up to 1920 x 1200 @ 60Hz / 24 bit color depth for remote sessions
- Adjustable video quality for flexible adaptation to diverse network environments
- Two level password security – only authorized users can view and control computers; up to 64 user accounts with separate profiles for each
- Integration with CC2000 Centralized Management Software
- Broadcast mode: operations from the keyboard can be simultaneously performed on all selected computers on the installation (software installation, system-wide shutdown, etc.)
- Panel array mode enables user to monitor multiple servers from single screen at the same time
- IPv6 capable
- Message board – convenient communication for remote users
- Secure keyboard / mouse / video transmission via RC4 128 bit encryption
- Supports TLS 1.2 data encryption and RSA 2048 bit certificates for secure user logins from a browser
- External (Remote) authentication support: RADIUS, LDAP, LDAPS, MS Active Directory
- Support for IP/MAC Filter
- Local and remote access logged and authenticated
- BIOS-level access
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Greek, Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese

Specifications

	CL5708IM / CL5708IN	CL5716IM / CL5716IN
Computer Connections		
Direct	8	16
Maximum	128 (via Daisy-chain)	256 (via Daisy-chain)
Console Connections		
Local / Remote	1 (Share Remote Bus)	
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
KVM Ports	8 x SPHD Female	16 x SPHD Female
External Mouse Port	1 x USB Type A Female (Front)	
Daisy Chain Ports	1 x DB-25 Male	
Firmware Upgrade	1 x RJ-11 Female	
USB Port	1 x USB Type A Female	
LAN Ports	1 x RJ-45 Female	
Power	1 x IEC 60320/C 14	
External Console Ports	1 x SPHD Male (Yellow)	
LEDs		
Port ID	1 x 2-digit, 7-segment (Yellow)	
Station ID	1 x 2-digit, 7-segment (Yellow)	
Power	1 (Dark Green)	
Lock	1 x Num Lock (Green), 1 x Caps Lock (Green), 1 x Scroll Lock (Green)	
Online	8 (Orange)	16 (Orange)
10/100 Mbps	1 (Orange / Green)	
LCD Module	CL5708IM: 17", CL5708IN: 19" (1280 x 1024 @ 75Hz)	CL5716IM: 17", CL5716IN: 19" (1280 x 1024 @ 75Hz)
Emulation		
Keyboard / Mouse	PS/2, USB	
Maximum Input Power Rating	100-240V AC, 50/60Hz, 1A	
Power Consumption	CL5708IM: AC 110V: 26.8W; AC220V: 27.7W CL5708IN: AC 110V: 29W; AC220V: 29.8W	CL5716IM: AC 110V: 26.8W; AC220V: 27.7W CL5716IN: AC 110V: 30.8W; AC220V: 31.8W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	CL5708IM: 13.49 kg (29.71 lb) CL5708IN: 13.41 kg (29.54 lb)	CL5716IM: 13.61 kg (29.98 lb) CL5716IN: 13.67 kg (30.11 lb)
Dimensions (L x W x H)	CL5708IM: 48.00 x 64.27 x 4.40 cm (18.9 x 25.3 x 1.73 in.) CL5708IN: 48.00 x 68.92 x 4.40 cm (18.9 x 27.13 x 1.73 in.)	CL5716IM: 48.00 x 64.27 x 4.40 cm (18.9 x 25.3 x 1.73 in.) CL5716IN: 48.00 x 68.92 x 4.40 cm (18.9 x 27.13 x 1.73 in.)
Carton Lot	1 pc	
Included Accessories	2x USB KVM Cables; 1x Custom Console Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Daisy-chain Cables	2L-1700 (0.6 m), 2L-1701 (1.8 m), 2L-1703 (3 m), 2L-1705 (5 m), 2L-1715 (15 m)	17-11
Rack Mount Kits	Please refer to page 8-23	

CL3800

Ultra Short Depth Dual Rail WideScreen LCD Console (USB, HDMI / DVI / VGA)



Shared Access 2 Local Users	2nd Console HDMI, DVI, VGA, USB	External Mouse USB	Audio Enabled	LED Monitor 18.5"	LED Illumination Light
--------------------------------	------------------------------------	-----------------------	---------------	----------------------	------------------------

Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- **Dual rail design** allows LED-backlit LCD monitor and keyboard/touchpad modules to operate independently
- Integrated KVM console with **short depth** dual rail design and a 18.5" LED-backlit LCD monitor allows you to work with your rack-mounting equipment in narrow spaces
- Supports 3 types of video inputs (HDMI / DVI / VGA)
- Supports an external console with USB / HDMI / DVI / VGA connectors for flexible operation
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- Standard 105-key keyboard

Specifications

	CL3800NW	CL3800NX
Computer Connections	1	
Console Selection	Hotkey	
Connectors		
KVM Ports	1 x HDMI Female, 1 x DVI-D Female (White), 1 x HDB-15 Male (Blue), 1 x USB Type B Female, 1 x 3.5mm Audio Jack Female (Green)	
External Mouse / USB Port	1 x USB Type A Female (Front)	
Firmware Upgrade	1 x 3.5mm Audio Jack Female (Black)	
Power	1 x IEC 60320/C14	
External Console Ports	1 x HDMI Female, 1 x DVI-D Female (White), 1 x HDB-15 Female (Blue), 2 x USB Type A Female, 1 x 3.5mm Audio Jack Female (Green)	
LEDs		
Power	1 x KVM Console (Dark Green), 1 x LCD (Orange)	
Lock	1 x Num Lock (Green), 1 x Caps Lock (Green), 1 x Scroll Lock (Green)	
LCD Module	18.5" (1920 x 1080 @ 60Hz)	18.5" (1366 x 768 @ 60Hz)
Emulation		
Keyboard / Mouse	USB	
Maximum Input Power Rating	100–240V AC, 50-60Hz, 1A	
Power Consumption	AC110V: 26.6W; AC220V: 26.8W	AC110V: 18.3W; AC220V: 17.8W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	9.61 kg (21.17 lb)	9.79 kg (21.56 lb)
Dimensions (L x W x H)	48.06 x 51.42 x 4.28 cm (18.92 x 20.24 x 1.69 in.)	
Body Dimensions (L x W x H)	44.92 x 46.74 x 4.28 cm (17.69 x 18.40 x 1.69 in.)	
Carton Lot	1 pc	
Included Accessories	1x USB HDMI KVM Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 2x L Brackets; 1x Standard Mounting Kit	

Note: Body Dimensions exclude I/O ports, handles, and mounting brackets.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11
USB KVM Cable	2L-5003U (3 m)	17-10
USB DVI KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11
LockPro-HDMI Cable Lock	2X-EA12	17-12
Rack Mount Kits	Please refer to page 8-23	
2-in-1U Rack Mount Kits	2K-0001 2K-0002 2K-0007	8-24

CL3700

Ultra Short Depth Single Rail WideScreen LCD Console (USB, HDMI)



Shared Access	2 nd Console	External Mouse	LED Monitor	LED Illumination Light
2 Local Users	HDMI, USB	USB	18.5"	

Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Integrated KVM console with **short depth** single rail design and a 18.5" LED-backlit LCD monitor allows you to work with your rack-mounting equipment in narrow spaces
- Supports HDMI video input, USB keyboard and mouse
- Supports an external console with USB / HDMI connectors
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- Standard 105-key keyboard

Specifications

	CL3700NW	CL3700NX
Computer Connections	1	
Console Selection	Hotkey	
Connectors		
KVM Ports	1 x HDMI Female, 1 x USB Type B Female	
External Mouse / USB Port	1 x USB Type A Female (Front)	
Firmware Upgrade	1 x 3.5mm Audio Jack Female (Black)	
Power	1 x IEC 60320/C14	
External Console Ports	1 x HDMI Female, 2 x USB Type A Female	
LEDs		
Power	1 x KVM Console (Dark Green), 1 x LCD (Orange)	
Lock	1 x Num Lock (Green), 1 x Caps Lock (Green), 1 x Scroll Lock (Green)	
LCD Module	18.5" (1920 x 1080 @ 60Hz)	18.5" (1366 x 768 @ 60Hz)
Emulation		
Keyboard / Mouse	USB	
Maximum Input Power Rating	100–240V AC, 50-60 Hz, 1A	
Power Consumption	AC110V: 23.3W; AC220V: 23.9W	AC110V: 13.6W; AC220V: 13.5W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	9.01 kg (19.85 lb)	9.03 kg (19.89 lb)
Dimensions (L x W x H)	48.06 x 47.70 x 4.28 cm (18.92 x 18.78 x 1.69 in.)	
Body Dimensions (L x W x H)	44.92 x 43.00 x 4.28 cm (17.69 x 16.93 x 1.69 in.)	
Carton Lot	1 pc	
Included Accessories	1x USB HDMI KVM Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit	

Note: Body Dimensions exclude I/O ports, handles, and mounting brackets.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11
LockPro-HDMI Cable Lock	2X-EA12	17-12
Rack Mount Kits	Please refer to page 8-23	
2-in-1U Rack Mount Kits	2K-0001 2K-0002 2K-0007	8-24

CL3100

Ultra Short Depth Single Rail WideScreen LCD Console (USB, VGA)

Shared Access 2 Local Users	2nd Console VGA, USB	External Mouse USB	Audio Enabled	LED Monitor 18.5"	LED Illumination Light
--------------------------------	-------------------------	-----------------------	---------------	----------------------	------------------------

Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Integrated KVM console with **short depth** single rail design and a 18.5" LED-backlit LCD monitor allows you to work with your rack-mounting equipment in narrow spaces
- Supports an external console with USB / VGA connectors
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- Standard 105-key keyboard

Specifications

	CL3100NX
Computer Connections	1
Console Selection	Hotkey
Connectors	
KVM Ports	1 x SPHD Female (Yellow) 1 x 3.5mm Audio Jack Female (Green)
External Mouse / USB Port	1 x USB Type A Female (Front)
Firmware Upgrade	1 x 3.5mm Audio Jack Female (Black)
Power	1 x IEC 60320/C14
External Console Ports	1 x HDB-15 Female (Blue) 2 x USB Type A Female 1 x 3.5mm Audio Jack Female (Green)
LEDs	
Power	1 x KVM Console (Dark Green) 1 x LCD (Orange)
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)
LCD Module	18.5" (1366 x 768 @ 60Hz)
Emulation	
Keyboard / Mouse	USB
Maximum Input Power Rating	100–240V AC, 50–60Hz, 1A
Power Consumption	AC110V: 13.8W; AC220V: 14.1W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal + Plastic
Weight	9.07 kg (19.98 lb)
Dimensions (L x W x H)	48.06 x 47.70 x 4.28 cm (18.92 x 18.78 x 1.69 in.)
Body Dimensions (L x W x H)	44.92 x 43.00 x 4.28 cm (17.69 x 16.93 x 1.69 in.)
Carton Lot	1 pc
Included Accessories	1x USB VGA KVM Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit

Note: Body Dimensions exclude I/O ports, handles, and mounting brackets.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U / 2L-5301U (1.2 m) 2L-5202U / 2L-5302U (1.8 m) 2L-5203U / 2L-5303U (3 m) 2L-5205U / 2L-5305U (5 m)	17-10
2-in-1U Rack Mount Kits	2K-0001 2K-0002 2K-0007	8-24
Rack Mount Kits	Please refer to page 8-23	

CL6700

Single Rail LCD Console (USB, HDMI / DVI / VGA)



Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Integrated KVM console with a 17.3" Widescreen Full HD LED-backlit LCD monitor in a single rail housing
- Supports an external console with USB / HDMI / DVI / VGA connectors
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- DDC emulation – video settings of attached computers are automatically adjusted for optimal output to the monitor
- Standard 105-key keyboard

Specifications

	CL6700MW
Computer Connections	1
Console Selection	Hotkey
Connectors	
KVM Ports	1 x HDMI Female, 1 x DVI-D Female (White), 1 x HDB-15 Male (Blue), 1 x USB Type B Female, 1 x 3.5mm Audio Jack Female (Green)
External Mouse / USB Port	1 x USB Type A Female (Front)
Firmware Upgrade	1 x RJ-11 Female
Power	1 x IEC 60320/C14
External Console Ports	1 x HDMI Female, 1 x DVI-D Female (White), 1 x HDB-15 Female (Blue), 2 x USB Type A Female, 1 x 3.5mm Audio Jack Female (Green)
LEDs	
Power	1 x KVM Console (Dark Green) 1 x LCD (Orange)
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)
LCD Module	17.3" (1920 x 1080 @ 60Hz)
Emulation	
Keyboard / Mouse	USB
Maximum Input Power Rating	100–240V AC, 50-60Hz; 1A
Power Consumption	AC110V: 21.2W; AC220V: 20.8W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	11.38 kg (25.07 lb)
Dimensions (L x W x H)	48.00 x 58.92 x 4.40 cm (18.9 x 23.2 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x USB DVI KVM Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11
USB KVM Cable	2L-5003U (3 m)	17-10
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11
Rack Mount Kits	Please refer to page 8-23	

CL3000

Lightweight Single Rail LCD Console (PS/2-USB, VGA)



Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- **MIL-STD-810G Certified**
- Green power LED-backlit LCD monitor saves energy
- Lightweight aluminum design for easier installation
- Integrated KVM console with a 19" LED-backlit LCD monitor in a single rail housing
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- 1U high mountable rack
- Standard 105-key keyboard

Specifications

	CL3000N
Computer Connections	1
Console Selection	Hotkey
Connectors	
KVM Ports	1 x SPHD Female (Yellow)
External Mouse / USB Port	1 x USB Type A Female (Front)
Power	1 x IEC 60320/C14
External Console Ports	1 x HDB-15 Female (Blue), 2 x USB Type A Female, 1 x 6-pin Mini-DIN Female (Purple), 1 x 6-pin Mini-DIN Female (Green)
LEDs	
Power	1 x KVM Console (Dark Green), 1 x LCD (Orange)
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)
LCD Module	19" (1280 x 1024 @ 75Hz, DDC2B)
Emulation	
Keyboard / Mouse	PS/2, USB
Maximum Input Power Rating	100–240V AC, 50-60Hz, 1A
Power Consumption	AC110V: 23.8W; AC220V: 25.4W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Random Vibration Resistant Test	MIL-STD-810G Certified Test Conditions: <ul style="list-style-type: none"> • Frequency Range: 5-500Hz • Grams: Value X, Y axis 0.76Grms, Z axis 1.07Grms • Test Duration: 1 hour/per axis
Physical Properties	
Housing	Aluminum
Weight	9.00 kg (19.82 lb)
Dimensions (L x W x H)	48.00 x 58.92 x 4.40 cm (18.9 x 23.2 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x USB KVM Cable; 1x Power Cord; 1x Standard Mounting Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Rack Mount Kits	Please refer to page 8-23	

CL5800

Dual Rail LCD Console (PS/2-USB, VGA)



Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- **Dual rail design** allows LED-backlit LCD monitor and keyboard / touchpad modules to operate independently
- Integrated KVM console with a 19" LED-backlit LCD monitor in a dual rail housing
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- 1U high mountable rack
- Standard 105-key keyboard

Specifications

	CL5800N
Computer Connections	1
Console Selection	Hotkey
Connectors	
KVM Ports	1 x SPHD Female (Yellow)
External Mouse / USB Port	1 x USB Type A Female (Front)
Firmware Upgrade	1 x RJ-11 Female
Power	1 x IEC 60320/C14
External Console Ports	1 x HDB-15 Female (Blue) 2 x USB Type A Female 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green)
LEDs	
Power	1 x KVM Console (Dark Green) 1 x LCD (Orange)
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)
LCD Module	19" (1280 x 1024 @ 75Hz; DDC2B)
Emulation	
Keyboard / Mouse	PS/2, USB
Maximum Input Power Rating	100-240V AC, 50/60Hz, 1A
Power Consumption	AC110V: 22.2W; AC220V: 22.9W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	14.27 kg (31.43 lb)
Dimensions (L x W x H)	48.00 x 68.04 x 4.40 cm (18.9 x 26.79 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x USB KVM Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 2x L Brackets; 1x Standard Mounting Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Rack Mount Kits	Please refer to page 8-23	

CL1000

Single Rail LCD Console (PS/2-USB, VGA)



Front

(17" / 19")

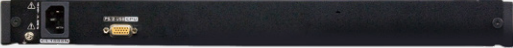


Rear

(17")



(19")



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- The most popular ATEN LED-backlit LCD Console in a single rail housing
- 1U high mountable rack
- Adjustable depth to fit within a rack
- Standard 105-key keyboard

Note: Custom KVM cables or converters are available for USB support.

Specifications

	CL1000M	CL1000N
Computer Connections	1	
Connectors		
KVM (Computer) Ports	1 x SPHD Female (Yellow)	
Power	1 x IEC 60320/C14	
LEDs		
Power	1 x KVM Console (Dark Green) 1 x LCD (Orange)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Module	17" (1280 x 1024 @ 75Hz)	19" (1280 x 1024 @ 75Hz)
Emulation		
Keyboard / Mouse	PS/2, USB (via 2L-520xUP cables)	
Maximum Input Power Rating	100-240V AC, 50/60Hz, 1A	
Power Consumption	AC110V: 19.6W; AC220V: 21.3W	AC110V: 29.2W; AC220V: 29.3W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	12.02 kg (26.48 lb)	11.06 kg (24.36 lb)
Dimensions (L x W x H)	48.00 x 53.83 x 4.40 cm (18.9 x 21.19 x 1.73 in.)	48.30 x 58.52 x 4.40 cm (19.02 x 23.04 x 1.73 in.)
Carton Lot	1 pc	
Included Accessories	1x USB KVM Cable; 1x Power Cord; 1x Standard Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
USB VGA Cables & Converters for USB Interface Support	2L-5202UP (1.8 m), 2L-5203UP (3 m), 2L-5205UP (5 m), 2L-5206UP (6 m) UC100KMA: Supports Mac Keyboards Emulation	17-9 17-3
Rack Mount Kits	Please refer to page 8-23	

CL3108 / CL3116

8/16-Port PS/2-USB VGA Single Rail WideScreen LCD KVM Switch

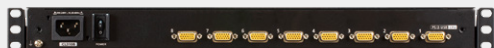


Front

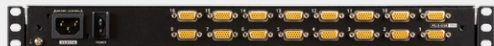


Rear

• CL3108



• CL3116



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Integrated KVM console with an 18.5" LED-backlit LCD monitor in a single rail housing
- Cascade up to 2 levels – controls up to 128/256 computers from a single console
- Additional hot-pluggable USB mouse port on front panel
- Supports computers with PS/2 or USB keyboards and mice
- Two level access security – administrator, user
- Auto Scan mode – enables continuous monitoring of user-selected computers
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese

Specifications

	CL3108NX	CL3116NX
Computer Connections		
Direct	8	16
Maximum	128 (via Cascade)	256 (via Cascade)
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
External Mouse Port	1 x USB Type A Female (Front)	
Firmware Upgrade	1 x 3.5mm Audio Jack Female (Black)	
Power	1 x IEC 60320/C14	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Power	1 x KVM Console (Dark Green) 1 x LCD (Orange)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Module	18.5" (1366 x 768 @ 60 Hz)	
Emulation		
Keyboard / Mouse	PS/2, USB	
Maximum Input Power Rating	100-240V AC, 50-60Hz, 1A	
Power Consumption	AC110V: 14.1W AC220V: 14.9W	
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	10.50 kg (23.13 lb)	10.60 kg (23.35 lb)
Dimensions (L x W x H)	48.06 x 63.17 x 4.28 cm (18.92 x 24.87 x 1.69 in.)	
Body Dimensions (L x W x H)	44.92 x 58.4 x 4.28 cm (17.69 x 22.99 x 1.69 in.)	
Carton lot	1 pc	
Included Accessories	2x USB KVM Cables; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit	

Note: Body Dimensions exclude I/O ports, handles, and mounting brackets.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Rack Mount Kits	Please refer to page 8-23	

CL1308 / CL1316

8/16-Port PS/2-USB VGA Single Rail LCD KVM Switch



Front



Rear

- CL1308



- CL1316



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- The most cost effective ATEN 19" LED-backlit LCD KVM Switch
- Provides ease and flexibility for expanding server installation
- Supports USB keyboards for Windows, Linux, Mac and Sun
- Two level access security – administrator, user
- Auto Scan – monitoring user-selected computers
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Greek, Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese

Specifications

	CL1308N	CL1316N
Computer Connections		
Direct	8	16
Maximum	128 (via Cascade)	256 (via Cascade)
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x IEC 60320/C14	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Power	1 (Dark Green), 1 (Orange)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Module	19" (1280 x 1024 @ 75Hz)	
Emulation		
Keyboard / Mouse	PS/2, USB	
Maximum Input Power Rating	100-240V AC, 50/60Hz, 1A	
Power Consumption	AC110V: 24.4W; AC220V: 24.7W	AC110V: 25.9W; AC220V: 26.1W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	12.59 kg (27.73 lb)	12.77 kg (28.13 lb)
Dimensions (L x W x H)	48.30 x 68.92 x 4.40 cm (19.02 x 27.13 x 1.73 in.)	
Carton Lot	1 pc	
Included Accessories	2x USB KVM Cables; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Rack Mount Kits	Please refer to page 8-23	

CL6708

8-Port USB DVI Single Rail WideScreen LCD KVM Switch



Front



Rear



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Integrated KVM console with a 17.3" LED-backlit LCD monitor in a single rail housing
- **Cascadable up to one level – controls up to 64 computers**
- Supports USB external console
- Additional hot-pluggable USB mouse port on front panel (also functions as a USB peripheral port)
- Superior video quality – up to 1920 x 1080 @ 60Hz
- Two level access security – administrator, user
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Standard 105-key keyboard
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Greek, Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese

Specifications

CL6708MW	
Computer Connections	
Direct	8
Maximum	64 (via Cascade)
Port Selection	OSD, Hotkey, Pushbutton
Connectors	
KVM Ports	8 x DVI-I Female (White), 8 x USB Type B Female, 8 x 3.5mm Audio Jack Female (Green)
External Mouse / USB Port	1 x USB Type A Female (Front)
Firmware Upgrade	1 x RJ-11 Female
Power	1 x IEC 60320/C14
External Console Ports	1 x DVI-I Female (White), 2 x USB Type A Female, 1 x 3.5mm Audio Jack Female (Green)
LEDs	
Online	8 (Orange)
Selected	8 (Green)
Power	1 x KVM Power (Dark Green), 1 x LCD Power (Orange)
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)
LCD Module	17.3" (1920 x 1080 @ 60Hz)
Emulation	
Keyboard / Mouse	USB
Maximum Input Power Rating	100–240V AC, 50–60Hz, 1A
Power Consumption	AC110V: 29.4W; AC220V: 28.7W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal + Plastic
Weight	12.70 kg (27.97 lb)
Dimensions (L x W x H)	48.00 x 68.92 x 4.40 cm (18.9 x 27.13 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	2x USB DVI-D Single Link KVM Cables; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8m), 2L-7D03U (3m), 2L-7D05U (5m)	17-10
USB DVI-I Single Link KVM Cables	2L-7D02UI (1.8m), 2L-7D03UI (3m)	17-10
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11
USB VGA to DVI-I KVM Cables	2L-7DX2U (1.8 m) 2L-7DX3U (3 m)	17-11
Rack Mount Kits	Please refer to page 8-23	

CL5708 / CL5716

8/16-Port PS/2-USB VGA Single Rail LCD KVM Switch

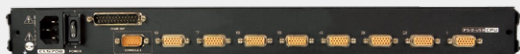


Front



Rear

- CL5708



- CL5716



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Daisy-chain up to 31 additional units – controls up to 256 / 512 computers from a single console
- Integrated KVM console with a 17" / 19" LED-backlit LCD monitor in a single rail housing
- Optional Fingerprint Identification Reader for 17" version*
- Supports a PS/2 or USB external console
- Front panel USB port allows each computer to access USB peripherals
- Dual Interface – supports computers with PS/2 or USB keyboards and mice
- Multiplatform support – Windows, Linux, Mac and Sun
- Superior video quality – up to 1280 x 1024 @ 75Hz; DDC2B
- Two level access security – administrator, user
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Standard 105-key keyboard
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Greek, Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese

Note: * Part No. for fingerprint identification reader version: CL5708FM, CL5716FM.

Specifications

	CL5708M / CL5708N	CL5716M / CL5716N
Computer Connections		
Direct	8	16
Maximum	256 (via Daisy-chain)	512 (via Daisy-chain)
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
External Mouse Port	1 x USB Type A Female (Front)	
USB Port	1 x USB Type A Female	
Daisy Chain Ports	1 x DB-25 Male	
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x IEC 60320/C 14	
External Console Ports	1 x SPHD Male (Yellow)	
LEDs		
Port ID	2 x 7-segment LED Display (Orange)	
Station ID	2 x 7-segment LED Display (Orange)	
Online	8 (Orange)	16 (Orange)
Power	1 (Dark Green)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Module	CL5708M: 17" / CL5708N: 19" (1280 x 1024 @ 75Hz)	CL5716M: 17" / CL5716N: 19" (1280 x 1024 @ 75Hz)
Emulation		
Keyboard / Mouse	PS/2, USB	
Maximum Input Power Rating	100-240V AC, 50/60Hz, 1A	
Power Consumption	CL5708M: AC110V: 23.9W; AC220V: 25.1W CL5708N: AC110V: 26.1W; AC220V: 27.2W	CL5716M: AC110V: 24.7W; AC220V: 25.8W CL5716N: AC110V: 26.9W; AC220V: 27.9W
Environmental		
Operating Temperature	CL5708M / CL5716M: 0 – 40°C CL5708N / CL5716N: 0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 85% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	CL5708M: 13.47 kg (29.67 lb) CL5708N: 13.39 kg (29.49 lb)	CL5716M: 13.59 kg (29.93 lb) CL5716N: 13.65 kg (30.07 lb)
Dimensions (L x W x H)	CL5708M: 48.00 x 64.27 x 4.40 cm (18.9 x 25.3 x 1.73 in.) CL5708N: 48.00 x 68.92 x 4.40 cm (18.9 x 27.13 x 1.73 in.)	CL5716M: 48.00 x 64.27 x 4.40 cm (18.9 x 25.3 x 1.73 in.) CL5716N: 48.00 x 68.92 x 4.40 cm (18.9 x 27.13 x 1.73 in.)
Carton Lot	1 pc	
Included Accessories	2x USB KVM Cables; 1x Custom Console Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Daisy-chain Cables	2L-1700 (0.6 m), 2L-1701 (1.8 m), 2L-1703 (3 m), 2L-1705 (5 m), 2L-1715 (15 m)	17-11
Rack Mount Kits	Please refer to page 8-23	

CL5808 / CL5816

8/16-Port PS/2-USB VGA Dual Rail LCD KVM Switch



Front



Rear

• CL5808



• CL5816



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- **Dual rail design** allows LED-backlit LCD monitor and keyboard / touchpad modules to operate independently
- Daisy-chain up to 31 additional units – controls up to 256 / 512 computers from a single console
- Integrated KVM console with a 19" LED-backlit LCD monitor in a dual rail housing
- Front panel USB port allows each computer to access USB peripherals
- Supports computers with PS/2 or USB keyboards / mice
- Two level access security – administrator, user
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Greek, Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese; standard 105-key keyboard

Specifications

	CL5808N	CL5816N
Computer Connections		
Direct	8	16
Maximum	256 (via Daisy-chain)	512 (via Daisy-chain)
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
External Mouse Port	1 x USB Type A Female (Front)	
USB Port	1 x USB Type A Female (Front)	
Daisy Chain Ports	1 x DB-25 Male	
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x IEC 60320/C14	
External Console Ports	1 x SPHD Male (Yellow)	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Station ID	2 x 7-segment LED Display (Orange)	
Power	1 (Dark Green)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Module	19" (1280 x 1024 @ 75Hz)	
Emulation		
Keyboard / Mouse	PS/2, USB	
Maximum Input Power Rating	100–240V AC, 50/60Hz, 1A	
Power Consumption	AC110V: 25.2W; AC220V: 27.2W	AC110V: 26.2W; AC220V: 27.6W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	14.48 kg (31.89 lb)	14.76 kg (32.54 lb)
Dimensions (L x W x H)	48.00 x 68.04 x 4.40 cm (18.9 x 26.79 x 1.73 in.)	
Carton Lot	1 pc	
Included Accessories	2x PS/2-USB KVM Cables; 1x Custom Console Cable; 1x Firmware Upgrade Cable; 1x Power Cord; 2x L Brackets; 1x Standard Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
USB VGA KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2-USB VGA KVM Cables	2L-5301UP (1.2 m), 2L-5302UP (1.8 m), 2L-5303UP (3 m)	17-10
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
Daisy-chain Cables	2L-1700 (0.6 m), 2L-1701 (1.8 m), 2L-1703 (3 m), 2L-1705 (5 m), 2L-1715 (15 m)	17-11
Rack Mount Kits	Please refer to page 8-23	

CL1008 / CL1016

8/16-Port PS/2-USB VGA Single Rail LCD KVM Switch

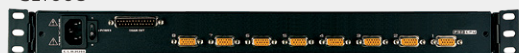


Front

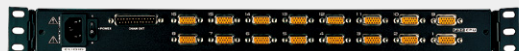


Rear

• CL1008



• CL1016



Features

- **Exclusive LED illumination light** – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions
- Daisy-chain up to 15 additional units – controls up to 128 / 256 computers from a single console
- Integrated KVM console with a 17" LED-backlit LCD monitor in a single rail housing
- Auto Scan feature for monitoring user-selected computers
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Two level access security – administrator, user
- Standard 105-key keyboard
- Keyboard Language support: English(US), English(UK), French, German, German(Swiss), Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish, and Traditional Chinese

Specifications

	CL1008M	CL1016M
Computer Connections		
Direct	8	16
Maximum	128 (via Daisy-chain)	256 (via Daisy-chain)
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
Daisy Chain Ports	1 x DB-25 Male	
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x IEC 60320/C14	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Power	1 (Dark Green)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Module	17" (1280 x 1024 @ 75Hz)	
Emulation		
Keyboard / Mouse	PS/2, USB (via 2L-520xUP cables)	
Maximum Input Power Rating	100-240V AC, 50/60Hz, 1A	
Power Consumption	AC110V: 21.3W; AC220V: 23.6W	AC110V: 22.3W; AC220V: 24.5W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal + Plastic	
Weight	13.34 kg (29.38 lb)	13.55 kg (29.85 lb)
Dimensions (L x W x H)	48.00 x 64.02 x 4.40 cm (18.9 x 25.2 x 1.73 in.)	
Carton Lot	1 pc	
Included Accessories	2x PS/2 KVM Cables; 1x Firmware Upgrade Cable; 1x Power Cord; 1x Standard Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 VGA KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
USB VGA Cables & Converters for USB Interface Support	2L-5202UP (1.8 m), 2L-5203UP (3 m), 2L-5205UP (5 m), 2L-5206UP (6 m) UC100KMA: Supports Mac Keyboards Emulation	17-9 17-3
Daisy-chain Cables	2L-1700 (0.6 m), 2L-1701 (1.8 m), 2L-1703 (3 m), 2L-1705 (5 m), 2L-1715 (15 m)	17-11
Rack Mount Kits	Please refer to page 8-23	

Optional Rack Mount Kits

- Standard Short – package included



- Standard Long



2X-010G



2X-023G



2X-040G

- Easy Installation Short



2K-0003



2K-0005

- Easy Installation Long



2K-0004



2K-0006

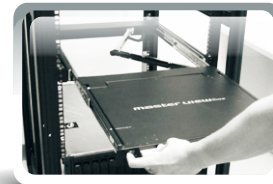
The following illustrations demonstrate just how easy it is to install your new LCD KVM Switch / LCD Console with the Easy Installation Rack Mount Kit.



1. Secure the side rails to the rack.



2. Slide the LCD KVM Switch / LCD Console onto the rails and secure it to the rack.



3. Now slide it out and you are ready to work.

Model No.	Rack Mount Kit	Depth (cm)
CL1000N	Standard Installation - Short (Standard)	52 - 85
	Standard Installation - Long (2X-023G)	70 - 105
	Easy Installation - Short (2K-0003)	57 - 70
	Easy Installation - Long (2K-0004)	68 - 105
CL1308N, CL1316N	Standard Installation - Short (Standard)	52 - 85
	Standard Installation - Long (2X-023G)	70 - 105
	Easy Installation - Short (2K-0005)	57 - 70
	Easy Installation - Long (2K-0006)	68 - 105
CL3000N	Standard Installation - Short (Standard)	52 - 85
	Standard Installation - Long (2X-010G)	70 - 105
	Easy Installation - Short (2K-0003)	57 - 70
	Easy Installation - Long (2K-0004)	68 - 105
CL5800N, CL6700MW, CL6708MW, CL5708N, CL5716N, CL5808N, CL5816N, CL5708IN, CL5716IN	Standard Installation - Short (Standard)	52 - 85
	Standard Installation - Long (2X-010G)	70 - 105
	Easy Installation - Short (2K-0005)	57 - 70
	Easy Installation - Long (2K-0006)	68 - 105
CL1008M, CL1016M, CL5708M, CL5716M, CL5708IM, CL5716IM	Standard Installation - Short (Standard)	42 - 82
	Standard Installation - Long (2X-010G)	68 - 105
	Easy Installation - Short (2K-0005)	57 - 70
	Easy Installation - Long (2K-0006)	68 - 105
CL3884NW, CL3108NX, CL3116NX	Standard Installation - Short (Standard)	58 - 80
	Standard Installation - Long (2X-040G)	70 - 105
	Easy Installation - Short (2K-0005)	57 - 70
	Easy Installation - Long (2K-0006)	68 - 105
CL1000M	Standard Installation - Short (Standard)	42 - 72
	Standard Installation - Long (2X-010G)	68 - 100
	Easy Installation - Short (2K-0003)	57 - 70
	Easy Installation - Long (2K-0004)	68 - 105
CL3800NX, CL3800NW	Standard Installation - Short (Standard)	47 - 75
	Standard Installation - Long (2X-040G)	70 - 100
	Easy Installation - Short (2K-0003)	46.5 - 70
	Easy Installation - Long (2K-0004)	68 - 105
CL3100NX, CL3700NX, CL3700NW	Standard Installation - Short (Standard)	42 - 72
	Standard Installation - Long (2X-040G)	70 - 100
	Easy Installation - Short (2K-0003)	42.5 - 70
	Easy Installation - Long (2K-0004)	68 - 105

Optional Rack Mount Kits

2-in-1U Mounting Kit

The ATEN 2-in-1U Mounting Kit allows you to combine the CL3800/CL3700/CL3100 LCD KVM Console with a rack KVM switch in 1U of space, which helps users save space for a more convenient and flexible working environment.

• Standard Installation



2K-0001



2K-0007

• Easy Installation

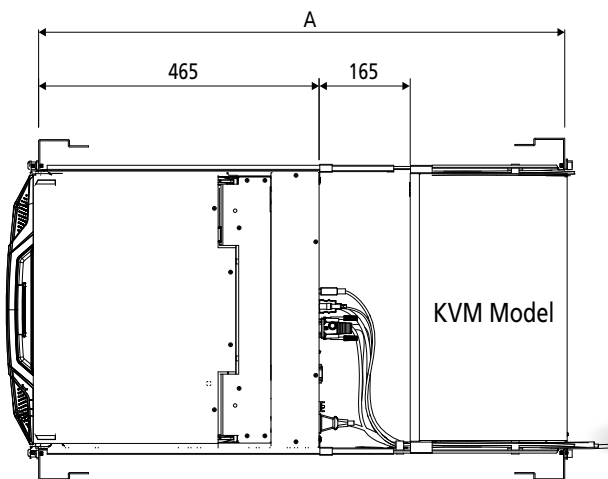


2K-0002

Table of compatibility between the LCD KVM consoles and the KVM switches

Mounting Kit	LCD KVM Console	CL3800	CL3700	CL3100	Depth of KVM Switch (cm)	Applicable Rack Depth (cm)
	Compatible KVM Model					
2K-0001 / 2K-0002	CS1768	●	N/A	N/A	15.5	78.0-105.0
	CS1308 / CS1316, CS1708A / CS1716A, KH1508A / KH1516A / KH1532A, KH1508Ai / KH1516Ai	●	N/A	●		
	CS19208 / CS19216, CS18208 / CS18216	●	●	N/A	21.0	83.5-105.0
	CS1798 / CS17916	●	●	N/A	25.4	87.9-105.0
2K-0007	KN1108VA / KN1116VA	●	●	●	28.0	88.5-105.0
	KN4116VA / KN4132VA, KN2116VA / KN2132VA / KN1132V, KN4140VA / KN4124VA, KN2140VA / KN2124VA	●	●	●	40.7	101.2-105.0

Note: For more information about the KN and KH products, please refer to Altusen product catalog.



Note: A stands for Applicable Rack Depth.



Dual Rail LCD KVM Switches

KL1508A / KL1516A • KL1108V / KL1116V • KL1508Ai / KL1516Ai

IT managers are now, more than ever, looking for solutions that can help reduce costs and maximize space.

ATEN Dual Rail LCD KVM Switches connect up to 16 computers. Dual Rail LCD KVM Switches are space-saving, provide robust control and, when incorporated with ATEN Rack KVM switches and Multi-Interface Cat 5 KVM switches, are fully scalable.



Exclusive LED Illumination Light

ATEN's LCD KVM features an LED illumination light, designed to illuminate the keyboard and touchpad in a dark room. The LED illumination light is ON by default as you lift up the LCD and can be switched OFF by pushbutton if needed. The unique design serves to brighten low-light conditions and provides a more flexible working environment.

Slim and Convenient

ATEN Dual Rail LCD KVM Switches maximize space on server racks by integrating a retractable LCD monitor, keyboard and touchpad in a 1U Dual Rail housing. The unique Dual Rail design separates the LCD module from the keyboard/touchpad module, which allows the keyboard/touchpad to be pushed away into the housing and out of the way when not in use.

Boost Efficiency

ATEN Dual Rail LCD KVM Switches allow administrators to monitor the status of individual ports without the hassle of manual switching. The dynamic Auto Scan function automatically switches among user selected ports at specified intervals. The broadcast function can transmit the administrator's keyboard and mouse inputs to all the available computers at once, instead of performing the same commands on each server.

Easy Access and Control

ATEN LCD KVM Switches provide three convenient methods to monitor, access, and control devices on your installation:

- 1) Port selection pushbuttons
- 2) Hotkey
- 3) OSD (On Screen Display)

Station and port selectors with 7-segment LED displays are also provided for fast switching to target computers from the KL1508A / KL1516A, KL1108V / KL1116V, and KL1508Ai / KL1516Ai models.

Note: The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.

Comparison

Model		KL1508A / KL1516A	KL1108V / KL1116V	KL1508Ai / KL1516Ai
Multiple Sessions	Local	1	1	1
	Remote	N/A	1	
Ports		8 / 16	8 / 16	8 / 16
Port Selection		OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton
Expansion		256 / 512 (Daisy-Chain*)	128 / 256 (Cascade*)	128 / 256 (Daisy-Chain*)
Computer	Connector	RJ-45	RJ-45	RJ-45
	Support Interface	PS/2, USB, Serial	PS/2, USB, Serial	PS/2, USB, Serial
	Support Platform	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
External Console		PS/2, USB; HDB-15	USB; DVI, HDB-15	PS/2, USB; HDB-15
Extra Mouse Port		USB	USB	USB
Keyboard / Mouse Emulation		PS/2, USB	PS/2, USB	PS/2, USB
Panel Spec	LCD Module	17" / 19" TFT-LCD	19" TFT-LCD	17" / 19" TFT-LCD
	Resolution	1280 x 1024 @ 75Hz		
	Response time	5 ms		
	Viewing Angle	170° (H), 160° (V)		
	Pixel Pitch	0.264 mm x 0.264 mm (17") / 0.294 mm x 0.294 mm (19")		
	Support Color	16.7M colors		
	Contrast Ratio	1000:1		
	Luminance	250 cd/m ²		
Dedicated Invocation Keys		•	•	•
Console Lock		•	•	•
Pushbuttons	Port	•	•	•
	Station	•	N/A	•
Auto Scan		•	•	•
Broadcast Support		•	•	•
Multi-Level Password Security		•	•	•
Firmware Upgradable		•	•	•
KVM over IP		N/A	•	•
Single Person Installation		•	•	•
Adapter ID Support		•	•	•
Virtual Remote Desktop		N/A	•	•
On-Screen Keyboard		N/A	•	•
External Mouse		•	•	•
CC2000 Centralized Management Software		N/A	•	•
CCVSR Video Session Recording Software		N/A	•	N/A
Panel Array Mode™		N/A	•	•
KVM over IP Console Station		N/A	•	N/A

Note:

*Refer to page 17-13 for details on compatible KVM switches. Some KVM over IP features may not be supported, depending on the functionality of the cascaded or daisy-chained KVM switch.

Installation Options

ATEN LCD KVM Switches allow you to choose from several rack mount kit options, including the Single Person Easy Installation Rack Mount Kit, which streamlines the rack mounting process. Standard rack mounting procedures need at least two people to install an LCD KVM switch. The Single Person Easy Installation Rack Mount Kit allows one person to install an LCD KVM Switch.

Single Person Installation

The following illustrations demonstrate just how easy it is to install your LCD KVM Switch with the Easy Installation Rack Mount Kit.

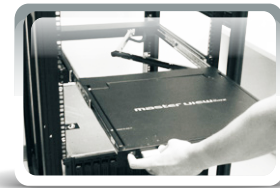
1. Secure the side rails to the rack.



2. Slide the Dual Rail LCD KVM Switch onto the rails and secure it to the rack.



3. Open the Dual Rail LCD KVM Switch. Now you are ready to begin installing the servers.



Standard Installation Rack Mount Kit

Short (Standard) – package included



Long (Optional)



2X-010G

Easy Installation Rack Mount Kit

Short (Optional)



2K-0005

Long (Optional)



2K-0006

Rack Mount Kits

For convenience and flexibility, 4 rack mount kits are available.

Model No.	Bracket Type	Depth (cm)
KL1508AN, KL1516AN, KL1108VN, KL1116VN, KL1508AiN, KL1516AiN (19" LCD)	Standard Installation – Short (Standard)	42 – 77
	Standard Installation – Long (2X-010G)	68 – 105
	Easy Installation – Short (2K-0005)	57 – 70
	Easy Installation – Long (2K-0006)	68 – 105
KL1508AM, KL1516AM, KL1508AiM, KL1516AiM, (17" LCD)	Standard Installation – Short (Standard)	42 – 77
	Standard Installation – Long (2X-010G)	68 – 105
	Easy Installation – Short (2K-0005)	57 – 70
	Easy Installation – Long (2K-0006)	68 – 105

KL1508A / KL1516A

8/16-Port Multi-Interface Cat 5 Dual Rail LCD KVM Switch



KL1516A



Front



Rear

Highlights

- [Exclusive LED illumination light – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions](#)
- Dual Rail housing with 1U-high design for convenient operation
- Daisy-chain up to 31 additional KVM switches to control up to 256 / 512 computers
- KVM adapter cables designed with automatic conversion to allow flexible interface combinations (PS/2, USB, Sun and serial) to control all computer types
- Two-level access security – administrator, user

Hardware

- Integrated Multi-Interface Cat 5 KVM switch with 17" or 19" LED-backlit LCD monitor
- Space-saving RJ-45 connectors and Cat 5e/6 cabling
- Dual Rail – LED-backlit LCD monitor slides independently from the keyboard / touchpad
- Extra console port – manages computers connected to the switch from an external console (monitor, USB or PS/2 keyboard and mouse)

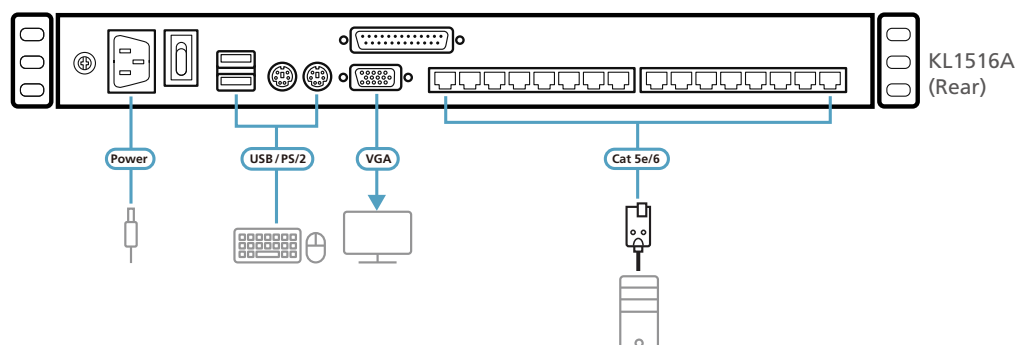
Management

- Adapter ID – adapter cable's configuration is stored on the adapter – no need to reconfigure the adapter when moving a server to a new port
- Multiple User Accounts – supports up to 10 user and 1 administrator accounts
- Three port selection methods: Pushbutton, Hotkey and OSD (On Screen Display)

Easy-to-Use Interface

- Station and port selectors with 7-segment LED displays are able to quickly switch to target computers
- Auto Scan Mode enables continuous monitoring of user-selected computers
- Broadcast Mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Dedicated Invocation Keys – two dedicated keys are provided on the keyboard module to make it easy to invoke Hotkey Mode and the OSD

Setup >



Specifications

	KL1508AM / KL1508AN	KL1516AM / KL1516AN
Computer Connections		
Direct	8	16
Maximum	256 (via Daisy-chain)*	512 (via Daisy-chain)*
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
External Console Ports	2 x USB Type A Female 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDB-15 Female (Blue)	
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Daisy Chain Ports	1 x DB-25 Male	
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x IEC 60320/C14	
External Mouse Port	1 x USB Type A Female (Front)	
LEDs		
Online	8 (Green)	16 (Green)
Selected	8 (Orange)	16 (Orange)
Power	1 (Blue)	
Station ID	1 x 2 Digit 7-segment (Orange)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
LCD Power	1 (Orange)	
LCD Module	KL1508AM: 17" KL1508AN: 19"	KL1516AM: 17" KL1516AN: 19"
	1280 x 1024 @ 75 Hz	
Emulation		
Keyboard / Mouse	PS/2; USB; Serial	
Maximum Input Power Rating	100-240V AC; 50-60Hz; 1A	
Power Consumption	KL1508AM: AC110V: 16.7W; AC220V: 18.9W KL1508AN: AC110V: 19.9W; AC220V: 21.2W	KL1516AM: AC110V: 16.8W; AC220V: 19.8W KL1516AN: AC110V: 20W; AC220V: 22.1W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	KL1508AM: 15.19 kg (33.46 lb) KL1508AN: 15.35 kg (33.81 lb)	KL1516AM: 15.20 kg (33.48 lb) KL1516AN: 15.36 kg (33.83 lb)
Dimensions (L x W x H)	48.00 x 70.12 x 4.40 cm (18.9 x 27.61 x 1.73 in.)	
Carton Lot	1 pc	

Note: *Refer to page 17-13 for details on compatible KVM switches.

Included Accessories

	KL1508A / KL1516A
Firmware Upgrade Cable	•
Power Cord	•
L Brackets	2
Standard Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
Rack Mount Kits	Please refer to page 8-28	
Daisy-Chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m); 2L-1715 (15 m)	17-11
KVM Adapter Cables	Please refer to page 17-4	

KL1108V / KL1116V

1-Local/1-Remote Access 8/16-Port Multi-Interface Cat 5 Dual Rail LCD KVM over IP Switch



KL1116V



Front



Rear



Highlights

- [Exclusive LED illumination light – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions](#)
- Dual Rail housing with 1U-high design for convenient operation
- One bus for remote KVM over IP access via the LAN, WAN, or Internet
- Cascadable up to two levels – controls up to 128 / 256 servers¹
- [Panel Array Mode™ – view the video output of up to 64 servers on one screen simultaneously](#)
- Advanced security features include password protection and advanced encryption – TLS 1.2, RSA 4096-bit, 256-bit AES, 56-bit DES, 168-bit 3DES and 128-bit RC4
- [Message Board for communication among remote users](#)
- [Integration with ATEN CC2000 Centralized Management Software & CCVSR Video Session Recording Software²](#)
- Supports ATEN KVM over IP Console Station³

Note:

1. Refer to page 17-13 for details on compatible KVM switches.
2. Refer to page 9-1, Management Software, for details.
3. Refer to page 7-27 for details.

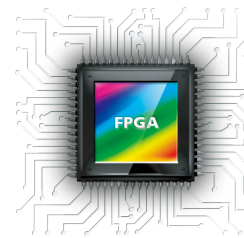
Exclusive Features:



- High grade security – supports FIPS 140-2 level 1 security standards



- Extreme virtual media speed – 2x faster virtual media transmission speed



- Advanced FPGA graphics processor – with an HD resolution of 1920 x 1200

Hardware

- Integrated KVM console with 19" LED-backlit LCD monitor in a dual rail housing
- Space-saving RJ-45 connectors and Cat 5e/6 cabling
- Dual Rail – LED-backlit LCD monitor slides independently from the keyboard / touchpad
- Extra console port – manages computers connected to the LCD KVM switch from an external console (monitor, USB keyboard and mouse)
- KVM adapter cables designed with automatic conversion to allow flexible interface combinations (PS/2, USB, Sun and serial) to control all computer types
- Dual Gigabit Ethernet Network Interface Controllers (NIC) provides complete and reliable network access

Management

- Up to 64 user accounts – up to 32 concurrent logins
- Remote power control for ATEN PDU devices
- Adapter ID – adapter cable's configuration is stored on the adapter – no need to reconfigure the adapter when moving a server to a new port
- Port Access Mode – Exclusive, Occupy, Share
- Customizable critical system event notification via SMTP email, SNMP trap, and Syslog support
- SNMP agent supports standard SNMP for device monitoring
- PPP mode (modem) dial-in/dial-out support for out-of-band and low bandwidth operations
- Event logging and Windows-based Log Server support
- Power Association enables the switch's KVM ports to be associated with ATEN PDU power outlets for remote power management of the servers from the switch's interface
- Supports ATEN KVM over IP Console Station*

Easy-to-Use Interface

- Auto Scan Mode enables continuous monitoring of user-selected computers
- Access via web browser, Windows Client and Java Client (works with all operating systems)
- Supports RADIUS, LDAP, LDAPS and MS Active Directory authentication
- Dedicated Invocation Keys – two dedicated keys are provided on the keyboard module to make it easy to invoke Hotkey Mode and the OSD
- Graphical OSD and toolbars provide convenient and user-friendly interface

Virtual Media

- Virtual media enables file applications, OS patching, software installation, and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives, and ISO images
- Supports Smart Card/CAC Reader

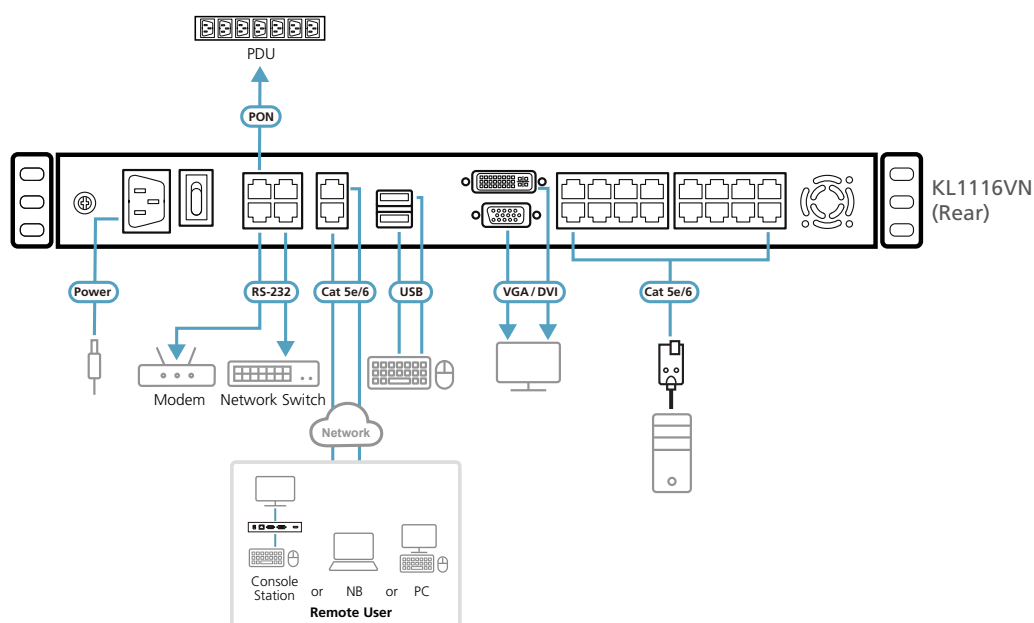
Virtual Remote Desktop

- Adjustable video quality to deliver optimal video transfer speed and minimize network bandwidth
- Full screen or scalable video display
- Exit Macros support

Note:

*Refer to page 7-27 for details.

Setup >



Specifications

	KL1108VN	KL1116VN
Computer Connections		
Direct	8	16
Maximum	128 (via Cascade)*	256 (via Cascade)*
Console Connections		
Local	1	
Remote	1	
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
External Console Ports	2 x USB Type-A Female (White) 1 x DVI-D Female (White) 1 x HDB-15 Female (Blue)	
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Power	1 x IEC 60320/C 14	
External Mouse Port	1 x USB Type-A Female	
LAN Ports	2 x RJ-45 Female	
PON	1 x RJ-45 Female	
Modem	1 x RJ-45 Female	
Serial	2 x RJ-45 Female	
LEDs		
Online	8 (Green)	16 (Green)
Selected	8 (Orange)	16 (Orange)
Power	1 (Blue)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
10/100/1000 Mbps	2 (Orange / Orange & Green / Green)	
LCD Power	1 (Orange)	
LCD Module	KL1108VN: 19" (1280 x 1024 @ 75Hz)	KL1116VN: 19" (1280 x 1024 @ 75Hz)
Emulation		
Keyboard / Mouse	PS/2, USB	
Maximum Input Power Rating	100-240V AC; 50-60Hz; 1A	
Power Consumption	AC 110V: 29W; AC220V: 29.4W	AC 110V: 32.1W; AC220V: 32.4W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	15.22 kg (33.52 lb)	15.28 kg (33.66 lb)
Dimensions (L x W x H)	48.00 x 70.12 x 4.40 cm (18.9 x 27.61 x 1.73 in.)	
Carton Lot	1 pc	

Note: *Refer to page 17-13 for details on compatible KVM switches.

Included Accessories

	KL1108V / KL1116V
SA0142 Serial Adapters	2
Power Cord	•
L Brackets	2
Standard Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
Rack Mount Kits	Please refer to page 8-28	
KVM Adapter Cables	Please refer to page 17-4	
Management Software	Please refer to page 9-1	

KL1508Ai / KL1516Ai

1-Local/Remote Share Access 8/16-Port Multi-Interface Cat 5 Dual Rail LCD KVM over IP Switch



KL1516Ai



Front



Rear



Highlights

- [Exclusive LED illumination light – designed by ATEN to illuminate the keyboard and touchpad to allow visibility in low-light conditions](#)
- Dual Rail housing with 1U-high design for convenient operation
- One bus for remote KVM over IP access via the LAN, WAN, or Internet
- Daisy-chain up to 15 additional KVM switches to control up to 128/256 computers
- KVM adapter cables designed with automatic conversion to allow flexible interface combinations (PS/2, USB, Sun and serial) to control all computer types
- [Panel Array Mode™ – view the video output of up to 42 servers on one screen simultaneously](#)
- Advanced security features include password protection and advanced encryption – RSA 2048-bit, 256-bit AES, 56-bit DES, TLS 1.2, 168-bit 3DES and 128-bit RC4

Hardware

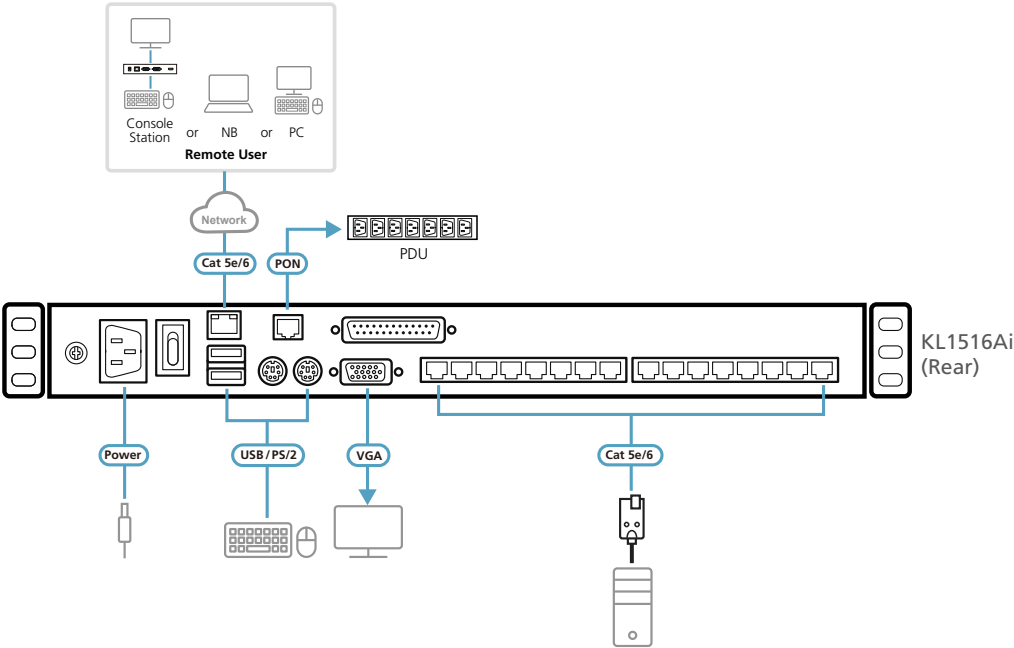
- Integrated KVM console with 17" or 19" LED-backlit LCD monitor
- Space-saving RJ-45 connectors and Cat 5e/6 cabling
- Dual Rail – LED-backlit LCD monitor slides independently from the keyboard / touchpad
- Extra console port – manages computers connected to the switch from an external console (monitor, USB or PS/2 keyboard and mouse)

Management

- Up to 64 user accounts – up to 32 concurrent logins
- Adapter ID – adapter cable's configuration is stored on the adapter – no need to reconfigure the adapter when moving a server to a new port
- Port Access Mode – Exclusive, Occupy, Share

Easy-to-Use Interface

- Auto Scan Mode enables continuous monitoring of user-selected computers
- Access via web browser, Windows Client and Java Client (works with all operating systems)
- Supports RADIUS, LDAP, LDAPS and MS Active Directory authentication
- Dedicated Invocation Keys – two dedicated keys are provided on the keyboard module to make it easy to invoke Hotkey Mode and the OSD
- Graphical OSD and toolbars provide convenient and user-friendly interface



Included Accessories

	KL1508Ai / KL1516Ai
Firmware Upgrade Cable	•
Power Cord	•
L Brackets	2
Standard Mounting Kit	•

Optional Accessories

Description	Part No. / Spec.	Page No.
Rack Mount Kits	Please refer to page 8-28	
Daisy Chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m); 2L-1715 (15 m)	17-11
KVM Adapter Cables	Please refer to page 17-4	
Management Software	Please refer to page 9-1	

Specifications

	KL1508AiM / KL1508AiN	KL1516AiM / KL1516AiN
Computer Connections		
Direct	8	16
Maximum	128 (via Daisy-chain)*	256 (via Daisy-chain)*
Console Connections		
Local	1 (Share Remote Bus)	
Remote	1	
Port Selection	OSD, Hotkey, Pushbutton	
Connectors		
External Console Ports	2 x USB Type A Female 1 x 6-pin Mini-DIN Female (Purple) 1 x 6-pin Mini-DIN Female (Green) 1 x HDB-15 Female (Blue)	
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Daisy Chain Ports	1 x DB-25 Male	
Power	1 x IEC 60320/C14	
Firmware Upgrade	1 x RJ-11 Female	
External Mouse Port	1 x USB Type A Female	
LAN Ports	1 x RJ-45 Female	
PON	1 x RJ-45 Female	
LEDs		
Online	8 (Green)	16 (Green)
Selected	8 (Orange)	16 (Orange)
Power	1 (Blue)	
Station Selection	2 x 7 Segments (Orange)	
Lock	1 x Num Lock (Green) 1 x Caps Lock (Green) 1 x Scroll Lock (Green)	
Link	1 (Green)	
10/100/1000 Mbps	non-FHD: 10/100 Mbps (Orange/Green) FHD: 100/1000 Mbps (Orange/Green)	
LCD Power	1 (Orange)	
LCD Module	KL1508AiM: 17" / KL1508AiN: 19" (1280 x 1024 @ 75Hz)	KL1516AiM: 17" / KL1516AiN: 19" (1280 x 1024 @ 75Hz)
Emulation		
Keyboard / Mouse	PS/2; USB	
Maximum Input Power Rating	100-240V AC, 50-60Hz, 1A	
Power Consumption	KL1508AiM: AC110V: 21.1W; AC220V: 22.2W KL1508AiN: AC110V: 24.3W; AC220V: 24.5W	KL1516AiM: AC110V: 21.2W; AC220V: 23.1W KL1516AiN: AC110V: 24.4W; AC220V: 25.4W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	KL1508AiM: 15.23 kg (33.55 lb) KL1508AiN: 15.39 kg (33.9 lb)	KL1516AiM: 15.24 kg (33.57 lb) KL1516AiN: 15.40 kg (33.92 lb)
Dimensions (L x W x H)	48.00 x 70.12 x 4.40 cm (18.9 x 27.61 x 1.73 in.)	
Carton Lot	1 pc	

Note: *Refer to page 17-13 for details on compatible KVM switches.

Management Software / Control Center

CC2000 Centralized Management Software • CCVSR Video Session Recording Software

ATEN Management Software offers:

- CC2000 Centralized Management Software
- CCVSR Video Session Recording Software

Providing IT administrators with complete centralized management of data centers.



CC2000 Management software

Updated with new, powerful, features, CC2000 provides IT administrators with the tools they need to access and manage control their entire distributed data center environment, putting administrators in complete control of their remote data centers and branch offices no matter where in the world they are deployed. When used in conjunction with KVM over IP switches, Serial Console Servers and PDU devices, CC2000 allows IT administrators to remotely monitor and control all installed devices, including blade servers and virtual machines. The CC2000's Primary-Secondary architecture safeguards data transmissions through built-in redundancy factors, including automated database backup of Primary and Secondary servers, and devices in addition to real-time database updating.

CCVSR Video Session Recording Software

ATEN's Control Center Video Session Recording (CCVSR) software is an innovative and effective solution designed for live monitoring and operation backtracking. Administrators can view a live feed of operators currently operating on their systems and thus quickly resolve operational flaws, process discrepancies, and more. In addition, IT managers can go back to recorded operation videos to trace changes made for compliance control improvement and auditing efficiency. With its LiveView function, CCVSR provides live-video surveillance to allow administrators to monitor multiple KVM ports in real time as well as providing a Playback function that allows users to quickly view older videos of the same channel for troubleshooting or problem solving. CCVSR can record all or specific server ports automatically for convenient auditing of operations conducted through a KVM over IP switch; from BIOS level and logging in, to running software applications and configuring the operating system – all actions are recorded and saved without exception.

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



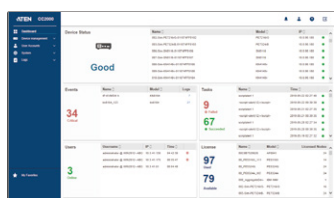
CC2000 Centralized Management Software

A secure and centralized systems management solution that enables you to manage all the IT equipment connected to ATEN over IP devices through a single portal.

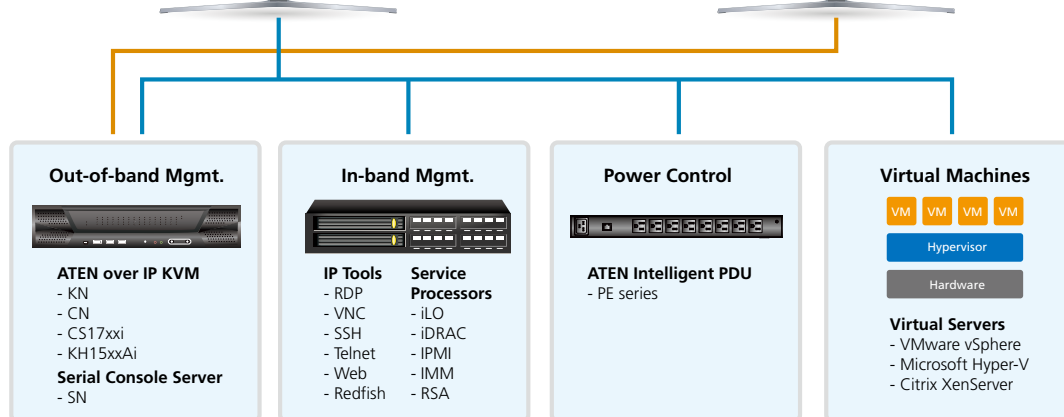
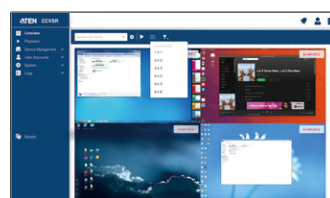
CCVSR Video Session Recording Software

An innovative new software that records a video of all operations on servers connected to KVM over IP Switches.

CC2000



CCVSR



KVM over IP Switch

Access and manage different types of server platform in remote data centers with ease.

Serial Console Server

Manage and control all serial devices inside server rooms from anywhere at anytime.

PDU

Remotely manage the power status of IT devices in enterprise server rooms around the world.

CC2000

Centralized Management Software



Highlights

- Single sign-on to consolidate the management of ATEN's KVM over IP switches, serial console servers, intelligent PDU, and third party devices such as embedded service processor, and physical and virtual servers
- Flexible remote access to service processors including Redfish (iDRAC8/iLO5), Dell iDRAC5/6/8, HP iLO2/3/5, IBM RSA II, Dell CMC, IBM AMM, HP OA, IPMI, IMM, or to IT equipment using RDP, VNC, SSH, or Telnet IP tools
- Supports access and control to virtualized environment over VMware vSphere 5.5/6.0/6.5/6.7 Windows Server 2008, 2012 & 2016 or Citrix XenServer 6.5
- Support Windows AD, LDAP, Kerberos, RADIUS and TACACS+ for centralized authentication and authorization
- Supports MOTP (Mobile One Time Password) authentication
- Panel Array Mode – allows administrators to monitor multiple video outputs of remote servers in one screen
- Provide server redundancy through primary/secondary CC2000 servers for service availability

Centralized Control and Management

ATEN CC2000 Centralized Management Software provides control of your enterprise through single portal, single sign-on, secure, centralized management of your entire IT installation, locally and worldwide – anywhere, anytime. The software consolidates the management of all ATEN KVM over IP switches, serial console servers, ATEN PDU and other devices including blade servers and virtual machines. Instead of having to access these devices through a separate interface, the CC2000 integrates all systems into a single easy-to-use interface – making system management faster and more efficient.

Unsurpassed Reliability

The CC2000 Centralized Management Software uses Primary-Secondary architecture to offer service redundancy with database updating. With this feature, a Secondary server can substitute for the Primary, when the Primary server fails. Redundancy also means that should any of the CC2000 servers go down, its function and information is not lost – a redundant Secondary unit can provide the required management services until the downed unit is back online. In addition, CC2000 servers push their IP address to ATEN devices automatically – providing multiple paths for ATEN devices to communicate with CC2000 servers.

Clear Intuitive Interface

The CC2000 is enhanced with a brand new HTML5 user interface with a modern flat design that integrates all information and facilitates effective management. The new UI delivers a better user experience and advanced usability via its simplified structure, improved text readability, and increased icon visibility, as well as ancillary functions such as the wizard guide and system notifications. Utilizing consolidated data, task-based navigation, and simplified menus, administrators can access, configure, and manage all of the IT equipment in all of their data centers and remote offices with greater ease and in fewer clicks. For example, no matter which page is being viewed, the message center button remains at the top-right of the toolbar, showing system alerts or critical logs that can be viewed in full detail with just one simple click.

Dashboard

This consolidated portal provides an at-a-glance overview for IT administrators to easily monitor all important information, such as device status, device events, task results, online users, and licensed nodes usage. With the device status and device events sections, administrators can be immediately notified about the condition of the connected devices (e.g. Online/Offline, Abnormal, etc.), as well as the generation of critical logs within a certain time period. Meanwhile, the task results section delivers vital messages about operation success or failure. Administrators can also view details of currently logged-in users and terminate suspicious user sessions. The Dashboard not only meets the administrative requirements of easy monitoring and centralized management, but also strengthens system notification functionality, allowing users to promptly handle issues and fix problems efficiently.

Flexible Scheduling

The CC2000 supports flexible scheduling for a wide variety of system tasks. Scheduled tasks include standard maintenance, firmware updates, software installations, exporting logs, power management, device configuration, account administration and more. These tasks can be performed across the entire installation from a single interface – allowing administrators to use their time more effectively.

Logging, Audits and Alerts

The CC2000 Centralized Management Software delivers comprehensive logging and reporting of system events that include audit trails for effective diagnostics and troubleshooting. Powerful search functions and extensive sorting and filtering options let you quickly pinpoint the events you are searching for. Search results, as well as complete logs, can be conveniently exported for analysis and reports.

Convenient Monitoring

The CC2000's Panel DynaArray™ function displays the output of multiple ports in individual panels on the administrator's screen – allowing administrators to monitor the status without the bother of having to switch to each port manually. The panel configuration is flexible – panels can be easily opened, closed, moved and resized – permitting administrators to select which devices they wish to monitor and how the ports appear on the screen. Ports can be accessed and managed simply by clicking on the panel it is displayed in.

Virtualization Support

Virtualization helps enterprises save space, hardware costs and utility expenses by allowing them to consolidate their data centers and server rooms. With virtualization, the same number of tasks can be performed by fewer physical servers. The CC2000 manages virtual machines just as if they were real, physical machines. Virtualization support not only saves on your costs to manage, it also increases the efficiency and longevity of your network infrastructure.

Centralized Management

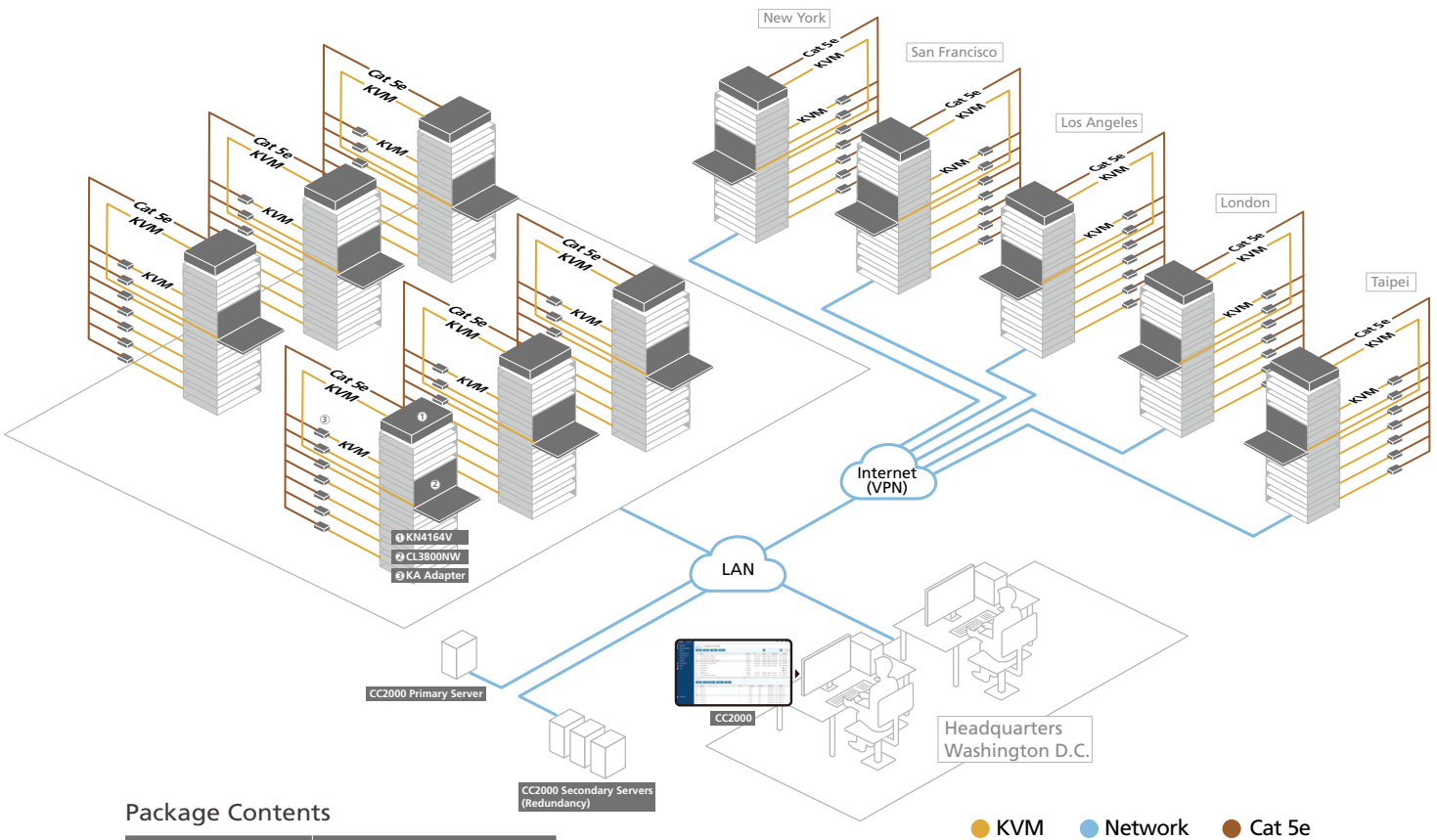
- Complete control of your enterprise – consolidates the management of all ATEN over IP devices
- Single portal, single sign-on, single IP address to securely access every device on the installation
- All devices are integrated into a single tree view for centralized access, administration and management of a global network – from anywhere at anytime
- Aggregate Devices – allows the KVM port, serial port and power outlet of an IT device to be associated in the same web page which gives administrators complete control from a single location
- Access Report/Asset Status functions help administrators generate “use-case” analysis for better maintenance
- Multi-platform client support for Windows, Mac OS X, Linux and Sun
- Email notification of system event
- Generic Devices – users can be redirected to 3rd party data center devices via CC2000
- Power association with ATEN PDUs enables KVM ports to be associated with power outlets for remote power management of servers from the CC2000 interface
- Supports SNMP Manager V1, V2c & V3
- Online Chat – helps users troubleshoot problems collaboratively in real-time

Powerful Security

- Supports local user accounts, LDAP, AD, Kerberos, RADIUS and TACACS+
- Role-based (Super Administrator, System Administrator, Device Administrator, User Administrator, User, Auditor) policy for access privilege control
- Import user list (*.csv) to create multiple users at once
- AES 256-bit encryption for secure end-to-end node access
- IP or MAC addresses blocking
- Virtual media security blocking
- Configurable failed login attempts and lockout
- Supports certificate signed from third-party authorities (CA)
- Secure web connection with TLS v1.2 and RSA 2048-bit certificates
- Strong user password authentication
- Configurable user session timeout
- Supports MOTP (Mobile One Time Password) authentication

Note:

Please refer to page 9-5 for compatible products and license options.



Package Contents

	CC2000
USB License Key	•
Software CD	•

Compatible Products

CC2000 Compatible ATEN over IP Products*

- KL1108V, KL1116V, KL1508Ai, KL1516Ai, KH1508Ai, KH1516Ai, KN1000, KN1000A, KN1108v, KN1116V, KN1108VA, KN1116VA, KN2124VA, KN2140VA, KN4124VA, KN4140VA, KN1132V, KN2116VA, KN2132VA, KN4116VA, KN4132VA, KN4164V, KN8132V, KN8164V, KN2116A, KN2132, KN4132, CN8000A, CN8000, CN9000, CN9600, CN9950, CS1708i, CS1716i, IP8000
- SN0148CO, SN0132CO, SN0116CO, SN0108CO, SN9116CO, SN9108CO, SN0148, SN0132, SN0116A, SN0108A, SN9116, SN9108
- PE8324, PE8216, PE8208, PE8108, PE7208, PE7108, PE6324, PE6216, PE6208, PE6108, PE5208, PE5108, EC2004, EC1000

Note: *Please refer to www.aten.com for more details.

License Options

CC2000 License Options with USB Licence Key

- CC2000TN (Tiny Pack: 1 Primary, 32 Nodes)
- CC2000XL (Extra Lite Pack: 1 Primary, 64 Nodes)
- CC2000LE (Lite Pack: 1 Primary, 128 Nodes)
- CC2000LS (Lite Plus Pack: 1 Primary, 256 Nodes)
- CC2000SD (Standard Pack: 1 Primary, 1 Secondary, 512 Nodes)
- CC2000PS (Plus Pack: 1 Primary, 5 Secondary, 2048 Nodes)
- CC2000PM (Premium Pack: 1 Primary, 9 Secondary, 5120 Nodes)
- CC2000PL (Platinum Pack: 1 Primary, 15 Secondary, Unlimited Nodes)
- CC2000MX (Maximum Pack: 1 Primary, 31 Secondary, Unlimited Nodes)

CC2000 System Add-On License

- CCS1 (Add-on 1 Secondary Server License)
- CCN1 (Add-on 1 Node License)
- CCN10 (Add-on 10 Nodes License)
- CCN50 (Add-on 50 Nodes License)
- CCN100 (Add-on 100 Nodes License)
- CCN500 (Add-on 500 Nodes License)
- CCN1000 (Add-on 1000 Nodes License)
- CCN10000 (Add-on 10000 Nodes License)
- CCNU (Add-on unlimited Nodes License)



Highlights

- User Session Recording – record user sessions from system boot up (BIOS) for visual playback when users access ATEN over IP KVM switches and serial console servers
- Incident Investigation – easily search through captured sessions for trouble tracing and problem solving
- Compliance – use recorded videos for auditing and regulatory compliance
- Service Failover – provides failover through primary-and-secondary architecture for service availability
- LiveView - real-time monitoring of user sessions that are being recorded

Records All Operations and Changes Made On Computers Connected to KVM over IP Switches

Each time a remote session is created with a client computer through a KVM over IP switch, the CCVSR starts recording. No matter what the target server's operating status is; whether booting up the operating system, logged in, logging out, or in pre-boot BIOS mode, all activity is recorded, including the video display, key strokes and mouse clicks. The CCVSR is easy to implement and can be used to track company compliance. It also provides an effective means of fast troubleshooting and problem resolution for IT managers. The software allows managers to go back and easily trace changes made on any computer. The CCVSR increases the productivity of auditing and troubleshooting.

LiveView

When recording user sessions, the CCVSR also provides live-video surveillance that enables administrators to track operations made on servers or the status of the connected devices. Various layout combinations and customizable layouts are available for selection by users to monitor multiple channels simultaneously, while the Playback function allows users to instantly search and view previous videos for troubleshooting or problem resolution. The LiveView function is especially suitable for server rooms or production lines which require real-time monitoring of continuous operations and performance to facilitate an immediate response when abnormalities or emergencies happen.

No Agent Software On Target Computers

Unlike other software, the CCVSR does not rely on agent software installed on target computers. The CCVSR is installed as a server to record computers connected to KVM over IP switches. The CCVSR bypasses the system interference and problems caused by client software; eliminating installation and removing all client software issues. With no agent software the CCVSR eliminates the use of CPU resources, disk space, memory and network bandwidth on all target computers. The CCVSR runs independently as a central management tool to record all operations and changes made to the computers.

Intuitive User Interface

With its clear and concise interface designed to boost user ease and engagement, the CCVSR provides enhanced usability and ancillary functions to deliver a great interactive experience. The new UI with HTML5 implementation delivers a better user experience and advanced usability via its simplified structure, improved text readability, and increased icon visibility, as well as ancillary functions such as the wizard guide and system notifications. The UI's minimalist flat design aesthetic and two levels of typographic hierarchy, with the most commonly-used key features listed on a handy sidebar, enable you to smoothly navigate and complete your tasks intuitively. For instance, simply click the LiveView tab to see instant live videos of the recorded user sessions for multiple channels at once. In addition, the Playback function simplifies video search and playback, so you can search the recorded videos by date and time for the utmost in convenient playback.

Transparent Recording

With the CCVSR, recordings of target computers are fully automatic and completely transparent. This allows your infrastructure to be monitored 24 hours a day, 7 days a week, with the ability to go back and view a video of all activities made on a computer. With the CCVSR there is no need for an administrator or end user to trigger the recordings, which are captured silently in the background. The automatic functions ensure you will never miss recording a target computer by accident and provides the confidence that all changes on a computer are tracked.

Scalable CCVSR System

The CCVSR supports single server and up to 3 secondary servers (to expand recording storage) setups. The simple and flexible license policy allows you to license only the nodes you want to manage (target servers), allowing smaller installations affordable computer management. CCVSR license policy accommodates a growing systems environment, to easily expand the CCVSR installation as you do. The CCVSR servers manage video recordings and allow all administrative activity to be controlled from a central CCVSR server, through a single IP port, allowing you to easily maintain and access all CCVSR data from one computer.

Manages and Plays Recordings Securely

All recordings are securely saved in an ATEN proprietary file format, and played by the CCVSR's own video player. There is no need to install an additional media player. The player provides integrated tools for playback, including accelerated speed, pause, export, scaling, and other advanced functions via control panel. In addition, all recordings for distribution can be password protected to enhance security.

Easy Storage Management

The CCVSR manages disk space automatically. All disk space can be recognized by the Operation System of CCVSR server, and assigned as a part of the CCVSR storage space for recordings. The disk can be a local hard drive, secondary server, or network shared folder (NAS). When an assigned disk space reaches its limit, the CCVSR will send out a notification to the administrator and clean storage space according to the time period of recordings you want to keep.

Service Failover

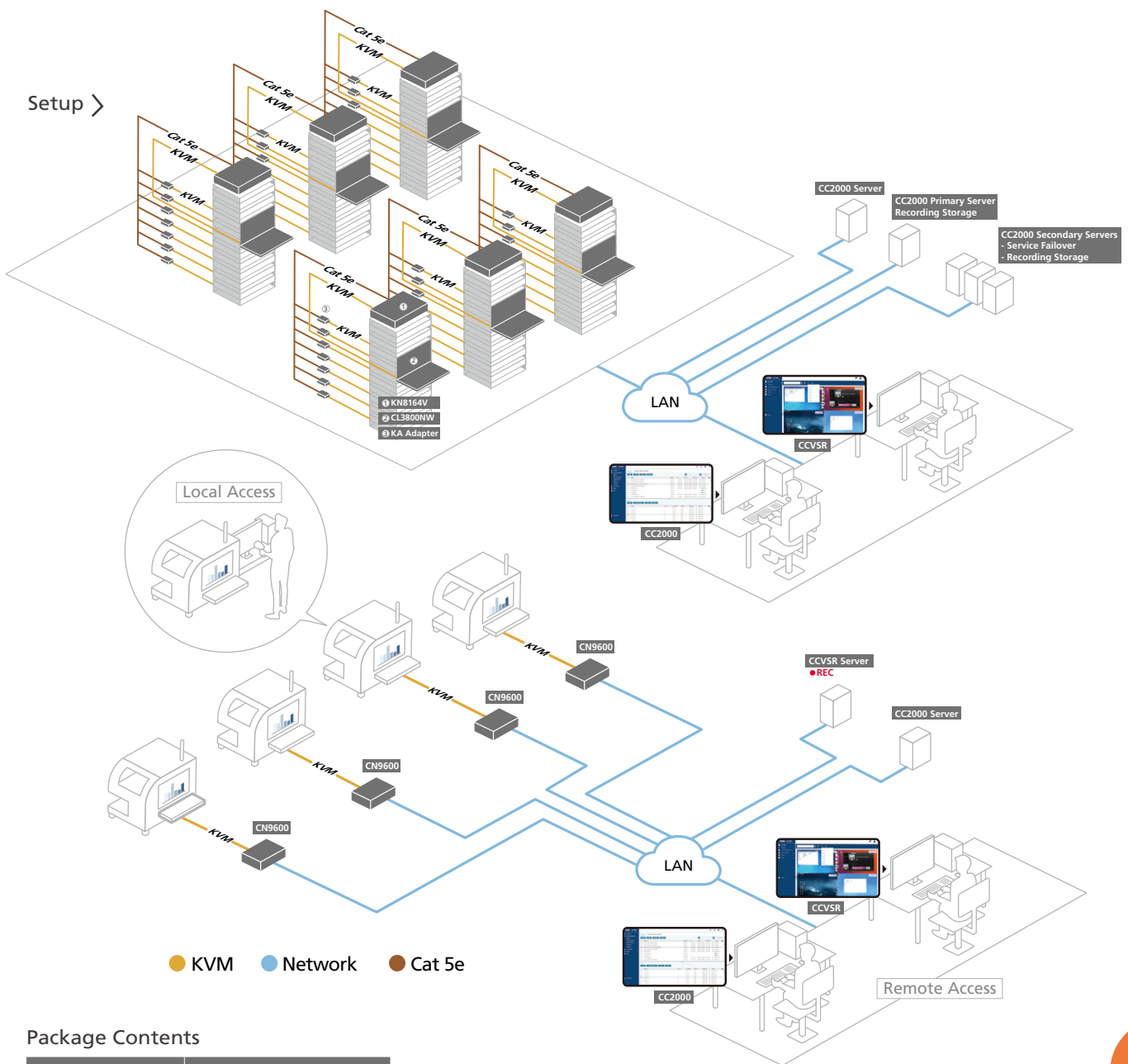
The CCVSR uses Primary-Secondary architecture to offer service redundancy. During standard operation, a Secondary server (max. 3 servers) acts as storage to store recorded videos and as a substitute for the Primary server. However, if the Primary server fails, one of the Secondary servers will provide the required management and recording services for KVM over-IP Switches until the downed Primary server is back online. This feature ensures that the recording service is always uninterrupted.

System Management

- Supports high quality video recordings – with a video resolution up to 1920 x 1200 with 24-bit color depth
- Supports recording on multiple KVM over IP switches*
- Simultaneously records and plays the operation of multiple KVM ports
- Special video player with format and video exporting with password protection for enhanced security
- IP & MAC address filter for enhanced protection
- System event notification via SMTP email; SNMP trap and Syslog support
- Configurable user and group permissions – for search, play, system, record, and save management
- Port level permissions – users can only view ports they have been authorized to access
- Supports device level event logs
- Multi-browser support: Microsoft Edge, Chrome, Firefox
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates for secure web browser logins
- 3rd party remote authentication supports: RADIUS, LDAP, LDAPS and Active Directory

Note:

*The CCVSR supports recording computer operations accessed through the local console and via remote sessions, although a few KVM switches do not support recording of their local console operations. Please refer to each product page for more details.



Package Contents

	CCVSR
USB License Key	•
Software CD	•

Compatible Products

CCVSR Compatible ATEN over IP Products*

- KL1108V, KL1116V, KN1108V, KN1116V, KN1132V, KN1108VA, KN1116VA, KN2116V, KN2124V, KN2132V, KN2116A, KN2132, KN2140V, KN4116, KN4116V, KN4124V, KN4132, KN4132V, KN2116VA, KN2124VA, KN2132VA, KN2140VA, KN4124VA, KN4116VA, KN4132VA, KN4140VA, KN4164V, KN8132V, KN8164V, CN8000A, CN9000, CN9600, CN9950, RCM101A, RCM101D, RCM464V, RCM416, RCMDVI101, RCMVGA101, RCMDP101U, KE6900AiT, KE6940AiT
- SN9108CO, SN9116CO, SN0108CO, SN0116CO, SN0132CO, SN0148CO, SN9116, SN9108, SN0148, SN0132, SN0116A, SN0108A.

Note: *Please refer to www.aten.com for more details.

License Options

CCVSR License Options with USB Licence Key

- CCVSR08 (8 Nodes)
- CCVSR16 (16 Nodes)
- CCVSR32 (32 Nodes)
- CCVSR64 (64 Nodes)
- CCVSR128 (128 Nodes)
- CCVSR256 (256 Nodes)
- CCVSR512 (512 Nodes)
- CCVSR1024 (1024 Nodes)
- CCVSR2048 (2048 Nodes)

CCVSR Add-On System License

- CCVSRN1 (Add-on 1 Node License)
- CCVSRN8 (Add-on 8 Nodes License)
- CCVSRN16 (Add-on 16 Nodes License)
- CCVSRN32 (Add-on 32 Nodes License)
- CCVSRN64 (Add-on 64 Nodes License)
- CCVSRN128 (Add-on 128 Nodes License)
- CCVSRN256 (Add-on 256 Nodes License)
- CCVSRN512 (Add-on 512 Nodes License)
- CCVSRN1024 (Add-on 1024 Nodes License)
- CCVSRN2048 (Add-on 2048 Nodes License)
- CCVSRAS1 (Add-on Archive Server License)

Rack KVM Switches

Rack-mountable KVM switches are designed to meet the needs of moderate to large-sized business installations, streamlining PC and server management while easily accommodating upgrading and expansion. The series offers rack-mountable KVM switches ideal for server rooms, data centers, ISPs and test labs.



- **Flexible Expansion**

ATEN Rack KVM switches allow you to easily add up to 512 servers to your installation via cascade or daisy-chain topology.

- **Easy Access and Control**

ATEN Rack KVM Switches provide up to four methods to access and control all the servers on your installation: port selection pushbuttons on the switch, hotkey combinations from the keyboard, a menu-driven OSD (On Screen Display) system, and RS-232 commands (only on CS19208/CS19216 and CS18208/CS18216).

- **Strong Security**

To prevent unwanted access to your installation, ATEN Rack KVM Switches contain authentication and authorization procedures.

- **Dual Interface – Multi-Platform Support**

ATEN Rack KVM switches support optional custom cables or converters allowing PS/2 and USB interfaces on the same installation. The custom cables support any combination of Windows, Mac, Sun, or Linux systems to coexist and be integrated into the KVM switch management system.

- **Boost Management Efficiency**

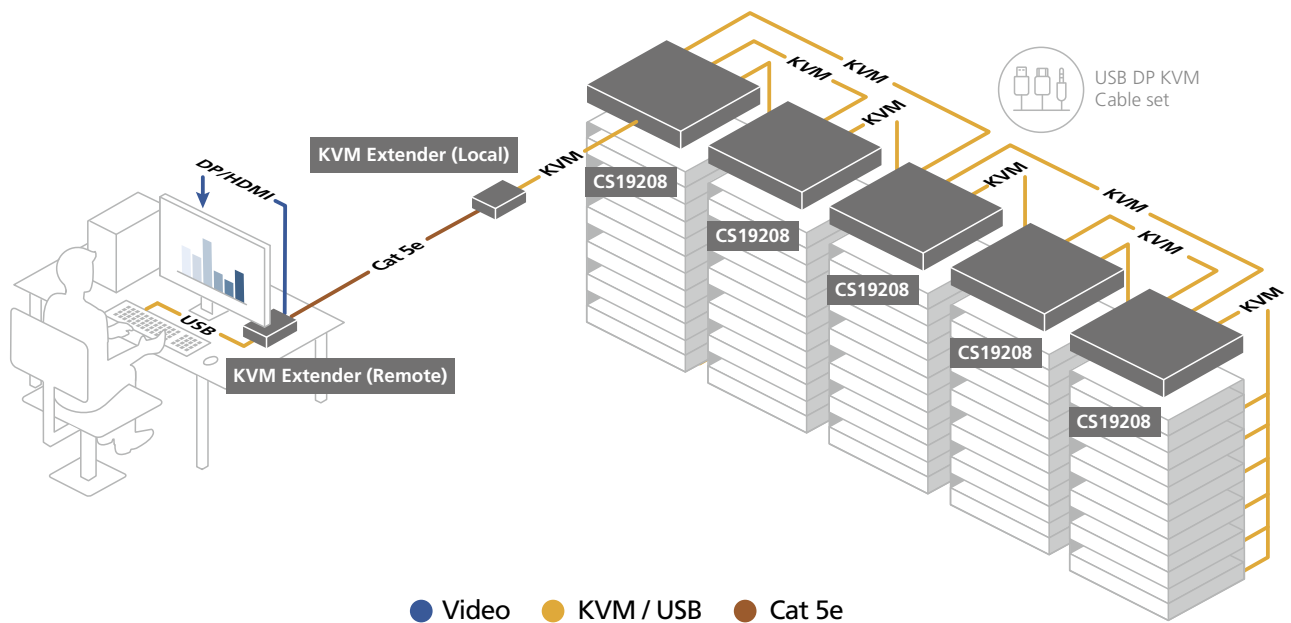
ATEN Rack KVM Switches feature a dynamic Auto Scan function that automatically switches among user selected ports at user-specified intervals – allowing administrators to monitor rack KVM switch status.

- **Video DynaSync™**

Exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources.

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Feature Comparison

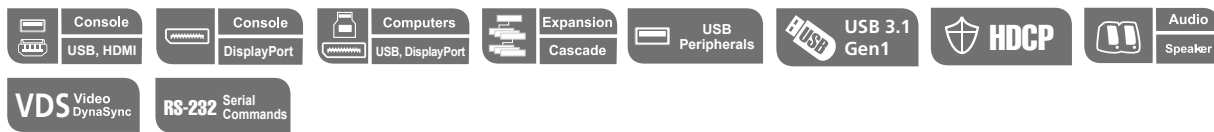
Model No.	CS19208	CS19216	CS18208	CS18216
Console Connections	1	1	1	1
Ports	8	16	8	16
Interface	Keyboard, Mouse	USB	USB	USB
	Video	DisplayPort, HDMI	HDMI	HDMI
Expansion	128 (Cascade)	256 (Cascade)	512 (Cascade)	256 (Cascade)
Platform Support	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Audio	• (Speakers)	• (Speakers)	• (Speakers)	• (Speakers)
USB Peripheral Port	• (USB 3.0)	• (USB 3.0)	• (USB 3.0)	• (USB 3.0)
Video DynaSync™	•	•	•	•
Port Selection	OSD, Hotkey, Pushbutton, RS-232 Commands	OSD, Hotkey, Pushbutton, RS-232 Commands	OSD, Hotkey, Pushbutton, RS-232 Commands	OSD, Hotkey, Pushbutton, RS-232 Commands

Model No.	CS1798	CS17916	CS1788	CS1768
Console Connections	1	1	1	1
Ports	8	16	8	8
Interface	Keyboard, Mouse	USB	USB	USB
	Video	HDMI	DVI (Dual Link), VGA	DVI, VGA
Expansion	512 (Cascade)	256 (Cascade)	512 (Cascade)	512 (Cascade)
Platform Support	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Audio	• (Speakers)	• (Speakers)	•	•
USB Peripheral Port	•	•	•	•
Video DynaSync™	•	•	•	•
Port Selection	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton

Model No.	CS1708A	CS1716A	CS1308	CS1316
Console Connections	1	1	1	1
Ports	8	16	8	16
Interface	Keyboard, Mouse	PS/2-USB	PS/2-USB	PS/2-USB
	Video	VGA (SPHD)	VGA (SPHD)	VGA (SPHD)
Expansion	256 (Daisy-chain)	512 (Daisy-chain)	64 (Cascade)	256 (Cascade)
Platform Support	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun	Windows, Linux, Mac, Sun
Audio	N/A	N/A	N/A	N/A
USB Peripheral Port	•	•	N/A	N/A
Video DynaSync™	•	•	•	•
Port Selection	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton

CS19208 / CS19216

8/16-Port USB 3.0 4K DisplayPort KVM Switch



• CS19208



• CS19216



Front

• CS19208



• CS19216



Rear

• CS19208



• CS19216



Features

- Cascadable to two levels – controls up to 128/256 computers (CS19208/CS19216)¹
- Multi-Display feature – stack up to eight CS19208/CS19216 units and display video from up to 8 monitors (dual display / triple display / quad display / multi-display)
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Supports a DisplayPort or HDMI video output – allows you to choose an appropriate video output and deploy console with flexibility
- Supports superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Built-in 2-port USB 3.1 Gen1 hub with SuperSpeed 5 Gbps data transfer rates
- Supports 2-in-1U mounting kit to combine ATEN ultra short depth LCD console in 1U space
- Audio enabled – full bass response provides a rich experience for 2.1 channel stereo sound
- Supports HD Audio²
- Computer selection via pushbuttons, hotkeys, OSD, and RS-232 commands
- Independent switching of KVM and USB peripheral focus³
- Two-level (administrator/user) password authorization for enhanced security protection
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Auto Scan Mode for monitoring all computers
- Console mouse port emulation/bypass feature – supports most mouse drivers and multifunction mice
- Mac/Sun keyboard support and emulation⁴
- Supports hot-plugging
- DisplayPort 1.2 compliant; HDCP 2.2 compliant
- Multiplatform support – Windows, Linux, Mac, and Sun
- Firmware upgradable
- Supports multimedia, wireless keyboard and mouse

Note: 1. Cascading between CS19208 and CS19216 is available.

2. HD audio through HDMI and DisplayPort cannot be switched independently.

3. Independent switching is only supported under mouse emulation mode.

4. PC keyboard combinations emulate Mac/Sun keyboards; Mac/Sun keyboards work only with their own computers.

Specifications

	CS19208	CS19216
Computer Connections		
Direct	8	16
Maximum	128 (via Cascade)	256 (via Cascade)
Connectors		
Console Ports	1 x DisplayPort Female 1 x HDMI Female (Black) 2 x USB Type A Female 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)	
KVM Ports	8 x DisplayPort Female 8 x USB 3.1 Gen1 Type B Female (Blue) 8 x 3.5mm Audio Jack Female (Green)	16 x DisplayPort Female 16 x USB 3.1 Gen1 Type B Female (Blue) 16 x 3.5mm Audio Jack Female (Green)
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen1 Type A Female (Blue; 2 x front)	
Port Selection	OSD, Hotkey, Pushbutton, RS-232 commands	
Emulation		
Keyboard / Mouse	USB	
Video	DisplayPort: 4096 x 2160 @ 60Hz HDMI: 4096 x 2160 @ 60Hz	
LEDs		
On Line / Selected	8 (Orange)	16 (Orange)
USB Link	8 (Green)	16 (Green)
Power	1 (Green)	
Power Consumption	DC12V: 18.44W	DC12V: 26.66W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	3.11 kg (6.85 lb)	3.54 kg (7.8 lb)
Dimensions (L x W x H)	43.24 x 21.43 x 4.40 cm (17.02 x 8.44 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	2x DisplayPort 1.4 Cables; 2x USB 3.0 Cables; 2x Audio Cables; 1x Firmware Upgrade Cable; 1x Foot Pad Set (4 pcs); 1x Power Adapter; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
DisplayPort Cables	2L-7D02DP (2 m), 2L-7D03DP-1 (3 m), 2L-7D04DP (4.6 m)	17-11
HDMI Cables	2L-7D01H (1 m), 2L-7D02H-1 (2 m), 2L-7D03H (3 m)	17-10
USB DisplayPort KVM Cable Kit	2L-7D02UDPX3	Please refer to www.aten.com for more details.
LockPro - HDMI Cable Lock	2X-EA12	17-12
2-in-1U Rack Mount Kits	2K-0001 2K-0002	8-24

CS18208 / CS18216

8/16-Port USB 3.0 4K HDMI KVM Switch



• CS18208



• CS18216



Front

• CS18208



• CS18216



Rear

• CS18208



• CS18216



Features

- Cascadable to three levels – controls up to 512 computers (CS18208)¹; or two levels – up to 256 computers (CS18216)
- Multi-Display feature – stack up to eight CS18208/CS18216 units and display video from up to 8 monitors (dual display / triple display / quad display / multi-display)
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Supports superior video quality – up to 4K DCI (4096 x 2160 @ 60Hz)
- Built-in 2-port USB 3.1 Gen 1 hub with SuperSpeed 5 Gbps data transfer rates
- Supports 2-in-1U mounting kit to combine ATEN ultra short depth LCD console in 1U space
- Audio enabled – full bass response provides a rich experience for 2.1 channel stereo sound
- Supports HD Audio²
- Computer selection via pushbuttons, hotkeys, OSD, and RS-232 commands
- Independent switching of KVM and USB peripheral focus³
- Two-level (administrator/user) password authorization for enhanced security protection
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Auto Scan Mode for monitoring all computers
- Console mouse port emulation/bypass feature – supports most mouse drivers and multifunction mice
- Mac/Sun keyboard support and emulation⁴
- Supports hot-plugging
- HDMI compliant; HDCP 2.2 compliant
- Multiplatform support – Windows, Linux, Mac, and Sun
- Firmware upgradable
- Supports multimedia, wireless keyboard and mouse

- Note: 1. CS18208 cascades to CS18208 only.
 2. HD audio through HDMI channel cannot be switched independently.
 3. Independent switching is only supported under mouse emulation mode.
 4. PC keyboard combinations emulate Mac/Sun keyboards; Mac/Sun keyboards work only with their own computers.

Specifications

	CS18208	CS18216
Computer Connections		
Direct	8	16
Maximum	512 (via Cascade)	256 (via Cascade)
Connectors		
Console Ports	1 x HDMI Female (Black) 2 x USB Type A Female 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)	
KVM Ports	8 x HDMI Female 8 x USB 3.1 Gen1 Type B Female (Blue) 8 x 3.5mm Audio Jack Female (Green)	16 x HDMI Female 16 x USB 3.1 Gen1 Type B Female (Blue) 16 x 3.5mm Audio Jack Female (Green)
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x DC Jack	
USB Hub	2 x USB 3.1 Gen1 Type A Female (Blue; 2 x front)	
Port Selection	OSD, Hotkey, Pushbutton, RS-232 commands	
Emulation		
Keyboard / Mouse	USB	
Video	4096 x 2160 @ 60Hz	
LEDs		
On Line / Selected	8 (Orange)	16 (Orange)
USB Link	8 (Green)	16 (Green)
Power	1 (Green)	
Power Consumption	DC12V: 9.77W	DC12V: 13.12W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	3.11 kg (6.85 lb)	3.54 kg (7.8 lb)
Dimensions (L x W x H)	43.24 x 21.43 x 4.40 cm (17.02 x 8.44 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	2x HDMI Cables; 2x USB 3.0 Cables; 2x Audio Cables; 1x Firmware Upgrade Cable; 1x Foot Pad Set (4 pcs); 1x Power Adapter; 1x Mounting Kit	

Optional Accessories

Type	Part No. / Spec.	Page No.
HDMI Cables	2L-7D01H (1 m), 2L-7D02H-1 (2 m), 2L-7D03H (3 m)	17-10
USB HDMI KVM Cable Kit	2L-7D02UHX3	Please refer to www.aten.com for more details.
LockPro - HDMI Cable Lock	2X-EA12	17-12
2-in-1U Rack Mount Kits	2K-0001 2K-0002	8-24

CS1798 / CS17916

8/16-Port USB HDMI/Audio KVM Switch



• CS1798



• CS17916



Front

• CS1798



• CS17916



Rear

• CS1798



• CS17916



Features

- Cascadable to three levels – controls up to 512 computers (CS1798)¹; or two levels – up to 256 computers (CS17916)
- Multi-Display feature – stack up to eight CS1798 / CS17916 units and display video from up to 8 monitors (dual display / triple display / quad display / multi-display)
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Audio enabled – full bass response provides a rich experience for 2.1 channel stereo sound
- Multilingual OSD supports English, French, German, Japanese, Russian, Simplified Chinese, Spanish and Traditional Chinese
- Independent switching of KVM and USB focus²
- Two-level (administrator / user) password authorization for enhanced security protection
- OSD Backup / Restore feature – enables the administrator to back up the switch's configuration and user profile information
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Console audio port on front panel for easy access
- Auto Scan Mode for monitoring all computers
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Complete keyboard emulation for error-free booting
- Mac / Sun keyboard support and emulation³
- Multilingual keyboard mapping – supports English (US), English (UK), French, German, Japanese, Korean, Spanish, and Traditional Chinese
- Supports hot-plugging

Note: 1. CS1798 cascades to CS1798 only.

2. Independent switching is only supported under mouse emulation mode.

3. PC keyboard combinations emulate Mac / Sun keyboards; Mac / Sun keyboards work only with their own computers.

Specifications

	CS1798	CS17916
Computer Connections		
Direct	8	16
Maximum	512 (via Cascade)	256 (via Cascade)
Connectors		
Console Ports	1 x HDMI Female 2 x USB Type A Female 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)	
KVM Ports	8 x HDMI Female 8 x USB Type B Female 8 x 3.5mm Audio Jack Female (Green)	16 x HDMI Female 16 x USB Type B Female 16 x 3.5mm Audio Jack Female (Green)
Firmware Upgrade	1 x RJ-11 Female	
Power	1 x DC Jack	
USB Hub	2 x USB Type A Female (1 x front, 1 x rear)	
Port Selection	OSD, Hotkey, Pushbutton	
Emulation		
Keyboard / Mouse	USB	
Video	1920 x 1080 @ 60Hz; 1920 x 1200 @ 60Hz	
LEDs		
On Line / Selected	8 (Orange)	16 (Orange)
USB Link	8 (Green)	16 (Green)
Power	1 (Dark Green)	
Power Consumption	DC5V: 8.56W	DC5V: 8.66W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	3.49 kg (7.69 lb)	3.86 kg (8.5 lb)
Dimensions (L x W x H)	43.24 x 25.72 x 4.40 cm (17.02 x 10.13 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	2x USB HDMI KVM Cables; 1x Mounting Kit; 1x Firmware Upgrade Cable; 1x Power Adapter; 1x Foot Pad Set (4 pcs)	

Optional Accessories

Type	Part No. / Spec.	Page No.
HDMI Cables	2L-7D01H (1 m), 2L-7D02H-1 (2 m), 2L-7D03H (3 m)	17-10
USB HDMI KVM Cables	2L-7D02UH (1.8 m)	17-11
LockPro - HDMI Cable Lock	2X-EA12	17-12

CS1788

8-Port USB DVI Dual Link/Audio KVM Switch

Dual Link



Front



Rear



Features

- Cascadable up to three levels – controls up to 512 computers
- Multi-Display feature – stack up to four CS1788 units and display video from up to four monitors (dual display / triple display / quad display)
- Computer ports support digital (DVI) and analog (VGA) video inputs¹ – mixed operation possible
- KVM console supports a digital (DVI) or analog (VGA) video output
- Two-level (administrator / user) password authorization for enhanced security protection
- OSD backup / restore feature
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Console audio ports on front panel for easy access
- HDCP compliant
- Independent switching of KVM and USB focus
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Multilingual keyboard mapping – supports English (US), English (UK), French, German, Japanese, Korean, Spanish, and Traditional Chinese
- Multilingual OSD supports English, French, German, Japanese, Russian, Simplified Chinese, Spanish and Traditional Chinese
- Rack-mountable in 19" system rack
- Supports keyboard combinations via emulation (for Sun / Mac)²

Note: 1. A VGA input requires a VGA to DVI adapter or a VGA to DVI KVM cable (2L-7DX2U / 2L-7DX3U).

2. PC keyboard combinations emulate Mac / Sun keyboards; Mac / Sun keyboards work only with their own computers.

Specifications

CS1788	
Computer Connectins	
Direct	8
Maximum	512 (via Cascade)
Connectors	
Console Ports	1 x HDB-15 Female (Blue) 1 x DVI-I Female (White) 2 x USB Type A Female 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear)
KVM Ports	8 x DVI-I Female (White) 8 x USB Type B Female 8 x 3.5mm Audio Jack Female (Green) 8 x 3.5mm Audio Jack Female (Pink)
Firmware Upgrade	1 x RJ-11 Female
Power	1 x DC Jack
USB Hub	2 x USB Type A Female (1 x front, 1 x rear)
Port Selection	OSD, Hotkey, Pushbutton
Emulation	
Keyboard / Mouse	USB
Video	DVI (Dual Link): 2560 x 1600 @ 60Hz; VGA: 2048 x 1536 @ 60Hz
LEDs	
On Line / Selected	8 (Orange)
USB Link	8 (Green)
Power	1 (Dark Green)
Power Consumption	DC5.3V: 8.26W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	2.80 kg (6.17 lb)
Dimensions (L x W x H)	43.72 x 16.12 x 4.40 cm (17.21 x 6.35 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	2x USB DVI-D Dual Link KVM Cables; 1x Firmware Upgrade Cable; 1x Mounting Kit; 1x Power Adapter; 1x Foot Pad Set (4 pcs)

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cables	2L-7D02UI (1.8 m), 2L-7D03UI (3 m)	17-10
USB DVI-D Dual Link KVM Cables	2L-7D02UD (1.8 m), 2L-7D03UD (3 m), 2L-7D05UD (5 m)	17-11
USB VGA to DVI-I KVM Cable	2L-7DX2U (1.8 m), 2L-7DX3U (3 m)	17-11
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11

CS1768

8-Port USB DVI/Audio KVM Switch



Front



Rear



Features

- Cascadable up to three levels – controls up to 512 computers
- Multi-Display feature – stack up to four CS1768 units and display video from up to four monitors (dual display / triple display / quad display)
- Computer ports support digital (DVI) or analog (VGA) video inputs¹ – mixed operation possible
- KVM console supports a digital (DVI) or analog (VGA) video output
- Two-level (administrator / user) password authorization for enhanced security protection
- OSD backup / restore feature
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Console audio ports on front panel for easy access
- HDCP compliant
- Independent switching of KVM and USB focus
- Console mouse port emulation / bypass feature supports most mouse drivers and multifunction mice
- Multilingual keyboard mapping – supports English (US), English (UK), French, German, Japanese, Korean, Spanish, and Traditional Chinese
- Multilingual OSD supports English, French, German, Japanese, Russian, Simplified Chinese, Spanish and Traditional Chinese
- Rack-mountable in 19" system rack
- Supports keyboard combinations via emulation (for Sun / Mac)²

Note: 1. A VGA input requires a VGA to DVI adapter or a VGA to DVI KVM cable (2L-7DX2U / 2L-7DX3U).

2. PC keyboard combinations emulate Mac / Sun keyboards; Mac / Sun keyboards work only with their own computers.

Specifications

CS1768	
Computer Connections	
Direct	8
Maximum	512 (via Cascade)
Connectors	
Console Ports	1 x HDB-15 Female (Blue) 1 x DVI-I Female (White) 2 x USB Type A Female 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear) 2 x 3.5mm Audio Jack Female (Green; 1 x front, 1 x rear)
KVM Ports	8 x DVI-I Female (White) 8 x USB Type B Female 8 x 3.5mm Audio Jack Female (Green) 8 x 3.5mm Audio Jack Female (Pink)
Firmware Upgrade	1 x RJ-11 Female (Black)
Power	1 x DC Jack
USB Hub	2 x USB Type A Female (1 x front, 1 x rear)
Port Selection	OSD, Hotkey, Pushbutton
Emulation	
Keyboard / Mouse	USB
Video	DVI (Single Link): 1920 x 1200 @ 60Hz; VGA: 2048 x 1536 @ 60Hz
LEDs	
On Line / Selected	8 (Orange)
USB Link	8 (Green)
Power	1 (Dark Green)
Power Consumption	DC5.3V: 4.53W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	2.80 kg (6.17 lb)
Dimensions (L x W x H)	43.72 x 16.12 x 4.40 cm (17.21 x 6.35 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	2x USB DVI-D Single Link KVM Cables; 1x Firmware Upgrade Cable; 1x Mounting Kit; 1x Power Adapter; 1x Foot Pad Set (4 pcs)

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-10
USB DVI-I Single Link KVM Cable	2L-7D02UI (1.8 m), 2L-7D03UI (3 m)	17-10
USB VGA to DVI-I KVM Cable	2L-7DX2U (1.8 m), 2L-7DX3U (3 m)	17-11
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11

CS1708A / CS1716A

8/16-Port PS/2-USB VGA KVM Switch with Daisy-Chain Port and USB Peripheral Support

Rack-Mountable PS/2 & USB KVM Switch with USB Peripheral Port

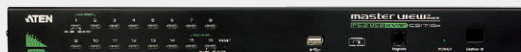


Front

- CS1708A

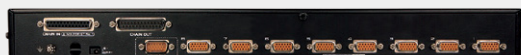


- CS1716A



Rear

- CS1708A



- CS1716A



Features

- Daisy-chain up to 31 additional units – controls up to 256 / 512 computers from a single console
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Auto-senses station's position on daisy-chained installations; no need for manual DIP switch setting; front panel LED indicates station's position
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Auto PS/2 and USB interface detection
- [Buzzer on/off via hotkey and OSD](#)

Specifications

	CS1708A	CS1716A
Computer Connections		
Direct	8	16
Maximum	256 (via Daisy-chain)	512 (via Daisy-chain)
Connectors		
Console Ports	1 x SPHD Male (Yellow)	
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
Daisy Chain Ports	1 x DB-25 Female (Black) 1 x DB-25 Male (Black)	
Firmware Upgrade	1 x RJ-11 Female (Black)	
Power	1 x DC Jack Female (Black)	
USB Port	1 x USB Type A Female	
Port Selection	OSD, Hotkey, Pushbutton	
Emulation		
Keyboard / Mouse	PS/2, USB	
Video	2048 x 1536; DDC2B	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Station ID	1 x 2-digit, 7-segment (Orange)	
Power	1 (Dark Green)	
Power Consumption	DC5.3V: 3.8W	DC5.3V: 5.31W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	2.66 kg (5.86 lb)	2.85 kg (6.28 lb)
Dimensions (L x W x H)	43.72 x 15.99 x 4.40 cm (17.21 x 6.3 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	1x USB KVM Cable; 1x PS/2 KVM Cable; 1x Console Cable; 1x Firmware Upgrade Cable; 1x Mounting Kit; 1x Power Adapter; 1x Foot Pad Set (4 pcs)	

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
Daisy-chain Cables	2L-1700 (0.6 m), 2L-1701 (1.8 m), 2L-1703 (3 m), 2L-1705 (5 m), 2L-1715 (15 m)	17-11

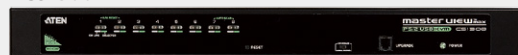
CS1308 / CS1316

8/16-Port PS/2-USB VGA KVM Switch



Front

- CS1308

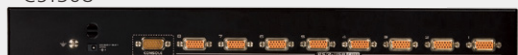


- CS1316



Rear

- CS1308



- CS1316



Features

- Cascadable up to 2 levels – controls up to 64 / 256 computers
- Video DynaSync™** – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- Broadcast mode – operations simultaneously performed on all selected computers, such as software installation and upgrading, system-wide shutdown, etc.
- Dual interface – supports computers with PS/2 or USB keyboards and mice
- Auto PS/2 and USB interface detection
- Buzzer on/off via hotkey and OSD
- Rack-mountable in 19" system rack

Specifications

	CS1308	CS1316
Computer Connections		
Direct	8	16
Maximum	64 (via Cascade)	256 (via Cascade)
Connectors		
Console Ports	1 x SPHD Male (Yellow)	
KVM Ports	8 x SPHD Female (Yellow)	16 x SPHD Female (Yellow)
Firmware Upgrade	1 x RJ-11 Female (Black)	
Power	1 x DC Jack	
Port Selection	OSD, Hotkey, Pushbutton	
Emulation		
Keyboard / Mouse	PS/2, USB	
Video	2048 x 1536; DDC2B	
LEDs		
Online	8 (Orange)	16 (Orange)
Selected	8 (Green)	16 (Green)
Power	1 (Dark Green)	
Power Consumption	DC5.3V: 2.34W	DC5.3V: 3.83W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	1.89 kg (4.16 lb)	2.10 kg (4.63 lb)
Dimensions (L x W x H)	43.72 x 16.13 x 4.40 cm (17.21 x 6.35 x 1.73 in.)	
Carton Lot	3 pcs	
Included Accessories	1x Console Cable; 1x Firmware Upgrade Cable; 1x Mounting Kit; 1x Power Adapter; 1x Foot Pad Set (4 pcs)	

Optional Accessories

Type	Part No. / Spec.	Page No.
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m), 2L-5210P (10 m)	17-9
PS/2-USB VGA KVM Cables	2L-5301UP (1.2 m), 2L-5302UP (1.8 m), 2L-5303UP (3 m)	17-10
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10

Remote Control and Monitoring (RCM) Solutions

RCMMS Remote Control & Monitoring Management Software • RCMDVI00AT / RCMDVI40AT
RCMDVI00BT / RCMDVI40BT / RCMDVI50T • RCMHDMI101U • RCMDP101U • RCMDVI101 • RCMVGA101
RCM416 / RCM464V • KA7174 • CS261TK

ATEN Remote Control and Monitoring (RCM) management solutions help improve efficiency, centralize management, and maintain safe operations in high-tech production line and industrial process automation environments by providing remote access to manage industrial servers and machines anytime and anywhere via an enterprise-class KVM over IP core.

The ATEN range of RCM solutions includes the extensive RCM series of KVM over IP Switches, KVM over IP Transmitters, Computer Sharing Device with Access Control Box Kits, and an Adapter Module with Local Console and Access Control Box Kit.

ATEN RCM solutions feature a wide range of innovative features necessary for smart factory automation in semiconductor foundry, assembly, and testing environments, as well as for the secure and reliable monitoring that is critical to smooth operations, efficiency, and productivity in industrial process automation environments.



Improved Management Efficiency

The ATEN RCM series of KVM over IP Switches solutions greatly increase management efficiency and administrative flexibility. Manage your production line and process automation servers with up to one local user and multiple remote users access, and control 1 / 16 / 64 servers. By cascading compatible KVM switches, as many as 512 servers can be controlled on a complete two stage installation.

Control Prioritization

ATEN RCM solutions offer priority control of remote and local operations in any center of manufacturing or industrial control, ensuring that control of your production line / process automation equipment is always in the correct hands. RCM solutions work with the Access Control Box, allowing instant local over remote prioritization to take over control to ensure operational accuracy and to handle errors. ATEN RCM Solutions provide prioritized control of key equipment in the production line or automation process with different levels of control for different users, such as view-only or full control for administrators.

OCR Recipe Check/Correction and Data collection

ATEN RCM series of KVM over IP switches support advanced and exclusive RCM and OCR API (DLL) interfaces with various functions integrated for easy management. OCR automation allows machine information data to be effectively identified in an automated process for analysis to be carried out, and errors to be processed automatically and immediately, while also improving equipment utilization rates and preventing human operation errors.

RCM API for System Integration

Efficiency and quality control as the result of a well-implemented and flexible manufacturing execution system (MES) is also essential for improved production results and reduced manufacturing costs. ATEN RCM solutions facilitate the integration of test equipment and high-efficiency management solutions to perform the various testing procedures can yield enormous benefits.

Smoother Process Automation

Furthermore, ATEN RCM solutions integrate with existing server-based HMI/SCADA systems for controlling, sensing, supervision, and monitoring of industrial automation processes. Solutions provide complete, real-time access to remote servers and video sources to monitor processes and analyze data in upstream, midstream, and downstream environments in the oil, gas, power, water industries, and more.

Comparison

Model		RCMDVI101	RCMVGA101	RCMDP101U	RCMHDMI101U
Connectors	Console	2x USB, 1x DVI-D, 2x Mini Stereo Jack	2x USB, 1x VGA, 2x Mini Stereo Jack	2x USB, 1x DisplayPort, 2x Mini Stereo Jack	2 x USB, 1 x HDMI 2 x Mini Stereo Jack
	KVM	1x USB, 1x DVI-D, 2x Mini Stereo Jack	1x VGA (SPHD), 2x Mini Stereo Jack	1x USB, 1x DisplayPort, 2x Mini Stereo Jack	1 x USB, 1 x HDMI, 2 x Mini Stereo Jack
	Serial	2x RJ-45	2x RJ-45	2x RJ-45	1 x RJ-45
	Virtual Media	1 x USB Mini-B	1 x USB Mini-B	1 x USB Mini-B	1 x USB Mini-B
	LAN	2x RJ-45	2x RJ-45	2x RJ-45	2 x RJ-45
	Control	1 x PS/2	1x PS/2	1x PS/2	1 x PS/2
Video	Local / Remote	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz	4096 x 2160 @ 30 Hz	4096 x 2160 @ 30 Hz / 4096 x 2160

Model		RCMDVI00AT	RCMDVI40AT	RCMDVI00BT	RCMDVI40BT	RCMDVI50T
Connectors	Console	2 x USB, 1 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9	2 x USB, 2 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9	2 x USB, 1 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9	2 x USB, 2 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9	2 x USB, 1 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9
	KVM	1 x USB, 1 x DVI-D, 2 x Mini Stereo Jack	1 x VGA (SPHD), 2 x Mini Stereo Jack	1 x USB, 1 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9	1 x USB, 2 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9	1 x USB, 1 x DVI-I, 2 x Mini Stereo Jack, 1 x DB-9
	LAN	2x RJ-45 1x SFP Slot		1 x RJ-45 1 x SFP Slot		
	Control	1 x DB-9		1 x PS/2, 2 x 18-pin Control Terminal		
Video	Local / Remote	Up to 1920 x 1200 @ 60 Hz		Up to 1920 x 1200 @ 60 Hz	Up to 1920 x 1200 @ 60 Hz	Up to 2560 x 1600 @ 60 Hz

Model		RCM416	RCM464V
Computer Connection	Local	1	1
	Remote	4	4
Computer Connections	Direct	16	64
	Maximum	512 (via Cascade)	
	Port Selection	Pushbuttons, Hotkeys, GUI	
Connectors	Console	2x USB, 1x DVI-D, 1x VGA HDB-15, 1x RJ-45	
	USB	3x USB	
	Laptop USB Console	1x USB mini	
	KVM	16x RJ-45	64x RJ-45
	Serial	1x RJ-45	
	PON	1x RJ-45	
	LAN	2x RJ-45	
Video	Local / Remote	1920 x 1200 @ 60Hz	

Model		KA7174
Connector	Console Ports	1 x SPHD
	KVM Ports	1 x SPHD
	Control	1 x RJ-11, 1 x USB
	RS-232	2x DB-9
Operating Mode Selection		1x Pushbutton
Video		Up to 1920 x 1200 @ 60Hz

RCMMS

Remote Control & Monitoring Management Software



Highlights

- Device and Panel Array Grouping for easy, convenient management
- Single sign-on to consolidate the management of all ATEN RCM devices
- Flexible image setting for various, all-encompassing applications
- Instantaneous remote access to RCM device ports by double-clicking for emergency management via WinClient viewer

Management Software for RCM devices

The ATEN RCMMS is a Windows-based management software that provides convenient single-point access, monitor, and customizable control to multiple RCM devices within a network. By consolidating all types of RCM devices, such as KVM over IP extenders and single-port and multi-port KVM over IP switches, RCMMS fulfills the administrators' need of centralized management of IT infrastructures in production lines even across isolated, secured environments.

Convenient Monitoring

Featuring Panel Array and WinClient viewer, RCMMS allows operators to easily monitor up to 25 device ports simultaneously in a single 5 x 5 view and provides instantaneous remote access to any specific PC / workstation as needed. Additionally, its Panel Array Grouping and single sign-on functions allow the consolidated management of all ATEN RCM devices for easy and convenient operation.

Flexible Image Settings

The RCMMS provides flexible image settings suited for a variety of applications, as well as the popping up and enlarging viewer access onto a dedicated screen by double-click during monitoring, empowering operators to promptly deal with any urgent cases encountered.

Enhanced Efficiency

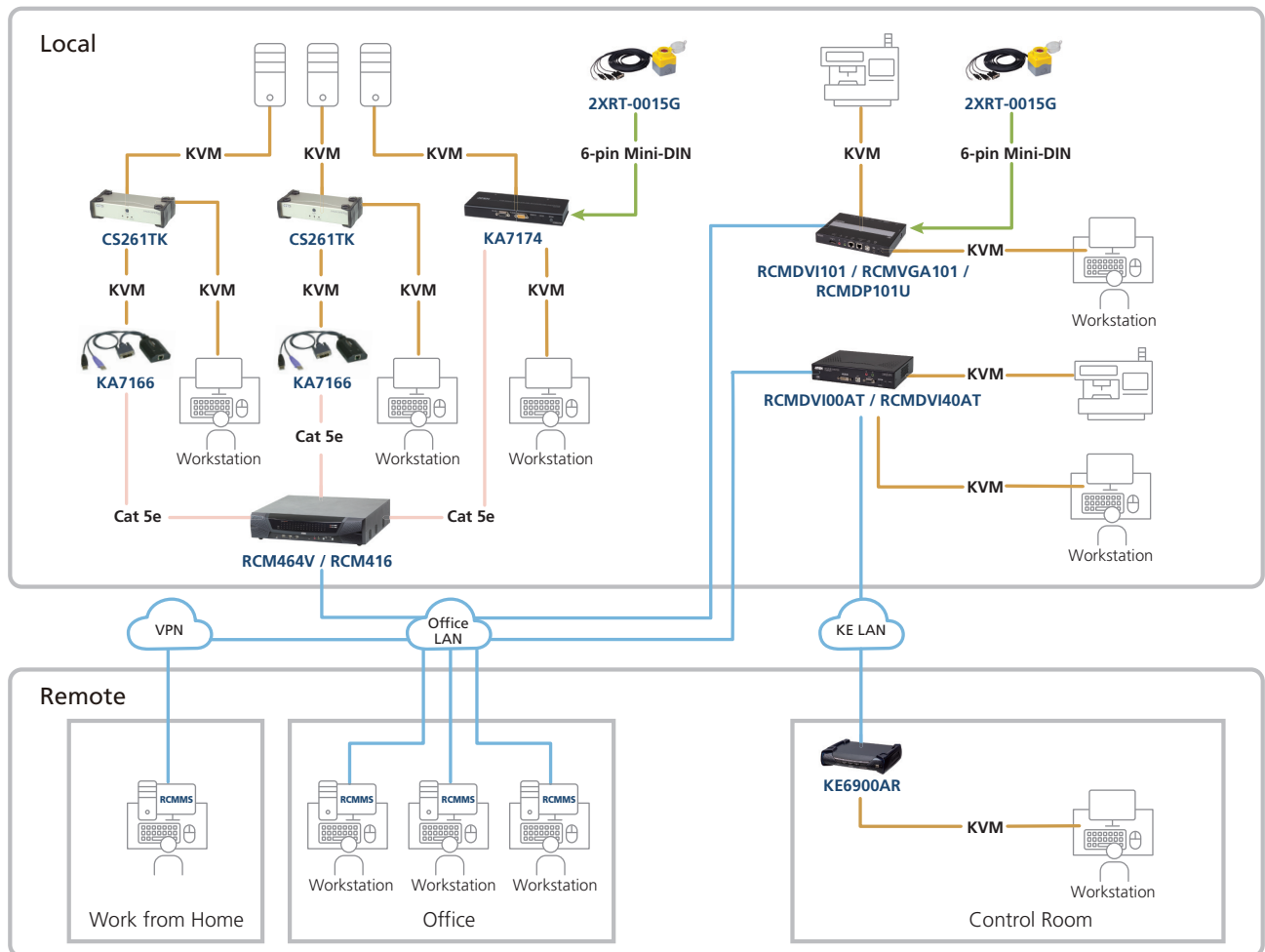
With the help of RCMMS, operators in varying industries can immediately respond to and fix any issues and problems arose at a production line efficiently, putting them in complete control. RCMMS is an outstanding management software solution for high-tech production lines requiring durable and reliable over-IP server management.

Management

- Device and Panel Array Grouping for easy, convenient management
- Single sign-on to consolidate the management of all ATEN RCM devices
- Flexible image setting for various, all-encompassing applications
- Instantaneous remote access to RCM device ports by double-clicking for emergency management via WinClient viewer
- Customizable Panel Array layout for up to 25 (5 x 5) simultaneous port monitoring
- Supports full screen pre-view and WinClient viewer in a maximal size
- Event notification and Access Control Box pushbutton alert
- Log records for easy tracking – able to store RCMMS system log records so operators can analyze past usability and plan future optimization
- Supports up to 10 language options

- Customizable settings to meet the various customer needs and different applications
- Export / import of all RCMMS settings, including device group list for easy deployment
- Two types of user account that can be configured for easy management – Administrator and User. Administrators have full access and configuration rights to the RCMMS and all RCM devices / ports added while users have access and configuration rights only to the RCM devices / ports they are authorized for
- Device / Port status indication – supports up to 5 kinds of device status that are indicated by icons to easily identify the connection status of all devices / ports at a glance³

Setup >



RCMDVI00AT / RCMDVI40AT

DVI-I Single Display KVM over IP Transmitter with Remote Access
DVI-I Dual Display KVM over IP Transmitter with Remote Access



RCMDVI40AT



Front



Rear



Highlights

- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports digital or analog video output – fully compliant with DVI specifications
- Local console exclusive control with access control box and OSD notification.
- Supports recording of remotely-accessed computer operations using CCVSR1
- "Push" and "Pull" – shares content instantly to / from a single Rx or video wall by just one click
- Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)
- Supports power / network failover – dual DC jacks for power redundancy and 1 RJ-45 and 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Supports 1Gbps SFP fiber module expansions up to 10 km
- Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds
- Centralized KE series management software – KE Matrix Management Software (CKKM)2 allows users to easily administer all KE devices with an intuitive web based GUI
- RCM API support through dedicated remote port: for system integration and automation

Note: 1. Refer to page 4-6 for details.
2. Refer to page 3-3 for details.

Hardware

- Superior video quality – up to 1920 x 1200 @ 60Hz; 24 bit color depth
- Supports recording of remotely-accessed computer operations using CCVSR
- Supports interlaced video format
- Supports stereo speakers and microphone
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable - Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Supports 1Gbps SFP fiber module expansions² up to 10 km
- Supports power/network failover – dual DC jacks for power redundancy and 1 RJ45 & 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions

Management

- Dual console operation – control your system from both the transmitter's and receiver's keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol

Virtual Media

- Virtual media enables file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features³

- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status
- RCM API support through dedicated remote port: for system integration and automation

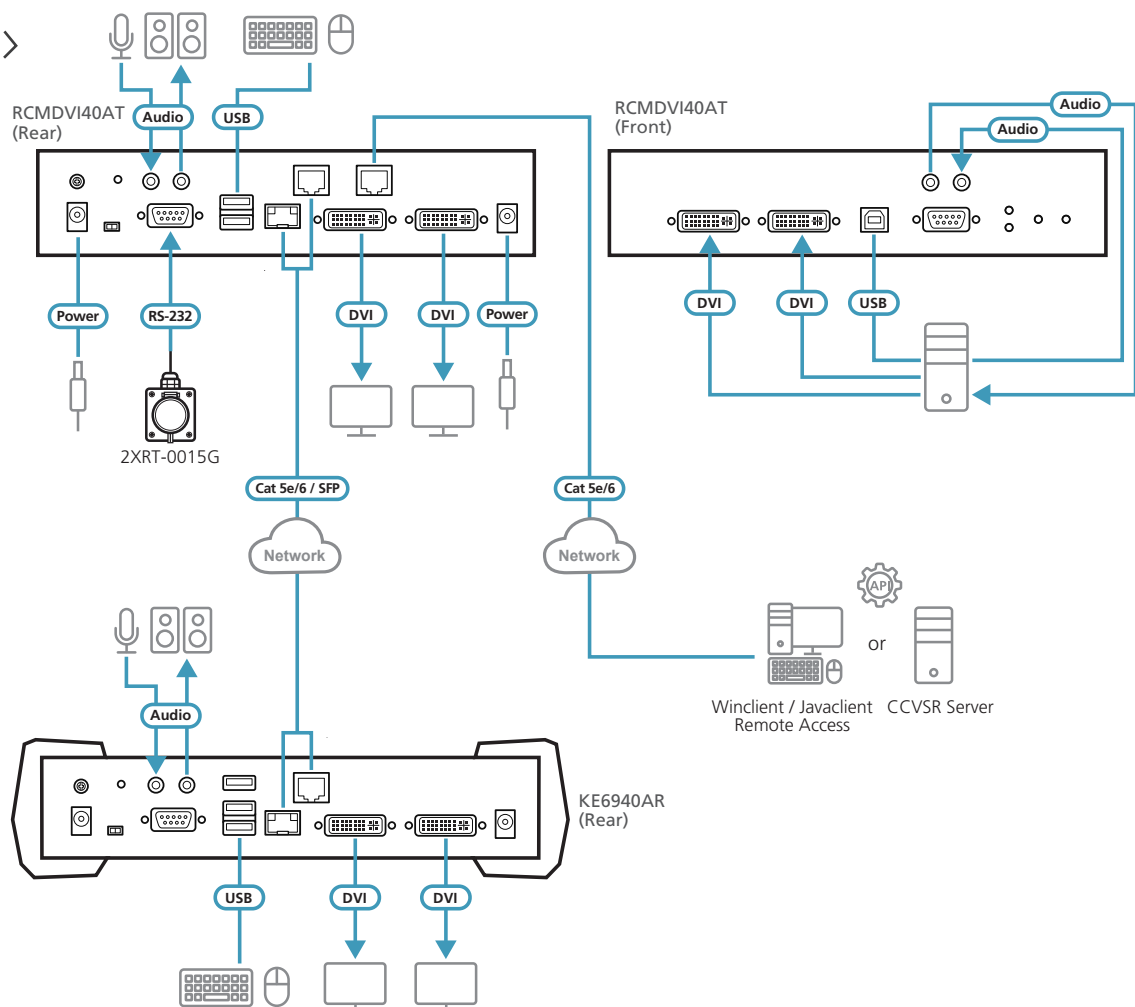
Note: 1. Refer to www.aten.com for more details.

2. SFP modules are required for fiber network connection. Refer to page 3-36 for details.

3. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CCKM)

4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 3-36 for details.

Setup >



Specifications

	RCMDVI00AT	RCMDVI40AT
Connectors		
Console Ports	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	2 x USB Type A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
Power	2 x DC Jack (Black)	
LAN Ports	2 x RJ-45 (Black) 1 x SFP Slot	
Internet Ports	1 x RJ-45 (Black)	
USB Port	N/A	
Switches		
OSD	N/A	
Video	N/A	
Graphics	N/A	
Reset	1 x Semi-recessed Pushbutton	
Mode Selection	1 x Slide Switch (Auto, RS-232 Config/Access Control, Local)	
LEDs		
Link	1 (10: Orange / 100: Orange & Green / 1000: Green)	
Power	1 (Blue)	
Local	1 (Green)	
Remote	1 (Green)	
Video Resolution	Up to 1920 x 1200 @ 60Hz	
Emulation		
Keyboard / Mouse	USB	
Power Consumption	DC12V:12W	DC12V:18.36W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 95% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	1.16 kg (2.56 lb)	1.18 kg (2.6 lb)
Dimensions (L x W x H)	21.50 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.)	21.50 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.)

Included Accessories

	RCMDVI00AT / RCMDVI40AT
Power Adapters	1
USB DVI-D KVM Cable*	•
Mounting Kit*	•
DVI-D Cable*	• (RCMDVI40AT only)

Note:

*This accessory is only included with KE transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB DVI-D Single Link KVM Cable	2L-7D02U (1.8 m); 2L-7D03U (3 m); 2L-7D05U (5 m)	17-10
USB VGA-DVI KVM Cable	2L-7DX2U (1.8 m); 2L-7DX3U (3 m)	17-11
USB HDMI-DVI KVM Cable	2L-7D02DH (1.8 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.ATEN.com for more details.	
2X-031G Single Rack Mount Kit		

RCMDVI00BT / RCMDVI40BT / RCMDVI50T

DVI-I Single Display KVM over IP Transmitter with Remote Access

DVI-I Dual Display KVM over IP Transmitter with Remote Access

DVI-I Dual Link Single Display KVM over IP Transmitter with Remote Access



RCMDVI50T



Front



Rear



Highlights

- Support 9 pin terminal DI/DO/Relay for industry alarm LED control
- Support RCMMS1 (RCM Management Software)
- RFID login without typing username and password
- Image comparison and character recognition for the alarm detection
- RCM API for system integration and automated production line application management
- Dedicated Remote Port (RJ-45) for remote access via WinClient and JavaClient viewer
- Superior video quality – DVI Dual Link up to 2560x1600 @ 60 and VGA up to 1920x1200 @ 60; 24 bit color depth
- Local console exclusive control with access control box and OSD notification
- **Supports recording of remotely-accessed computer operations using CCVSR2**
- “Push” and “Pull” – share content instantly by just one click
- **Boundless Switching – simply move the mouse cursor across screen boundaries to switch between different receivers (Rx)**
- **Fast Switching – switches between different remote video resolutions on a local display within 0.3 seconds**
- Centralized KE series management software – KE Matrix Management Software (CCKM)3 allows users to easily administer all KE devices with an intuitive web based GUI

Note: 1. Refer to page 6-5 (TBD) for details

2. Refer to page 4-6 for details.

3. Refer to page 3-3 for details.

Hardware

- Superior video quality – DVI Dual Link up to 2560x1600 @ 60 and VGA up to 1920x1200 @ 60; 24 bit color depth
- Supports recording of remotely-accessed computer operations using CCVSR
- Supports interlaced video format
- Supports stereo speakers and microphone
- Auto-MDIX – automatically detects cable type
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Fanless design for silent operations that are energy efficient
- Rack Mountable - Mounting options:
 - (1) 2X-021G Dual Rack Mount Kit¹
 - (2) 2X-031G Single Rack Mount Kit¹
- Supports 1Gbps SFP fiber module expansions² up to 10 km
- Supports power/network failover – dual DC jacks for power redundancy and 1 RJ45 & 1 SFP fiber ports for network failover to ensure constant availability for mission-critical applications
- Includes an industrial-grade power adapter – supports operating temperature of 0°C- 50°C to ensure durability and adaptability under harsh environmental conditions
- Flexible connections – allows multiple extenders and matrix connections for multi-display installations and video wall applications
- Supports digital or analog video output – fully compliant with DVI specifications

Management

- Dual console operation – control your system from both the transmitter’s and receiver’s keyboard, monitor, and mouse consoles
- OSD (On Screen Display) on the Receiver configures both Tx / Rx devices
- EDID Expert™ – selects optimum EDID settings for smooth power-up and highest quality display
- On-screen Preview – allows users to view the video of up to 36 displays on one screen
- Video Compression Level – allows you to increase/decrease the video quality to adjust for appropriate network bandwidth
- CLI – administrators can control all KE devices via RS-232 or TCP/IP using a CLI or 3rd party application
- RS-232 serial ports – allow you to connect to a serial terminal for TextMenu, CLI, or serial devices such as touch screens and barcode scanners
- Flashing LED and beeping features help locate and identify devices
- Compatible with all KE devices

Security

- Dedicated LAN port for KE direct connections – can be isolated from the corporate network
- Secure data transmission – 128-bit AES encryption to secure Video / Keyboard / Mouse / Data transmission
- Supports industry standard Transport Layer Security (TLS) protocol
- RFID login without typing username and password

Virtual Media

- Virtual media enables file transfers, OS patching, software installations and diagnostic testing
- Supports USB 2.0 DVD/CD drives, USB mass storage devices, PC hard drives and ISO images
- Supports Smart Card/CAC Reader

Advanced Features³

- Video Walls – create multiple video walls with up to 8 x 8 (64 displays max.) in each layout
- Advanced Scheduling – improves efficiency and saves costs by allowing connections to be set based on time and date
- Virtual Transmitter – to stream video, audio, USB and serial sources independently
- Supports both internal and external authentication – external authentication supports LDAP, Active Directory, RADIUS and TACACS+
- Four selectable access modes for multiple simultaneous access (Exclusive/Occupy/Share/ View only mode) – administrators can select access modes of permissions on Tx devices to boost collaboration or to avoid interference among users
- Configurable user and group permissions for access and control of KE devices
- Tx grouping of up to 4 sets of KE series devices to support Multi-Display applications
- Rx privilege control – users at the Tx local console can enable / disable Rx control privilege by simply pressing a control button⁴
- Authentication Lock – automatically logs in when the power of the system is resumed after power off
- Connection Redundancy – automatically connects to another transmitter (Tx) after disconnection with the original Tx, ensuring constant access to servers
- Disconnection Alert – Pop-up warning message and looping alarm beeping notify users the disconnection status
- RCM API for system integration and automated production line application management

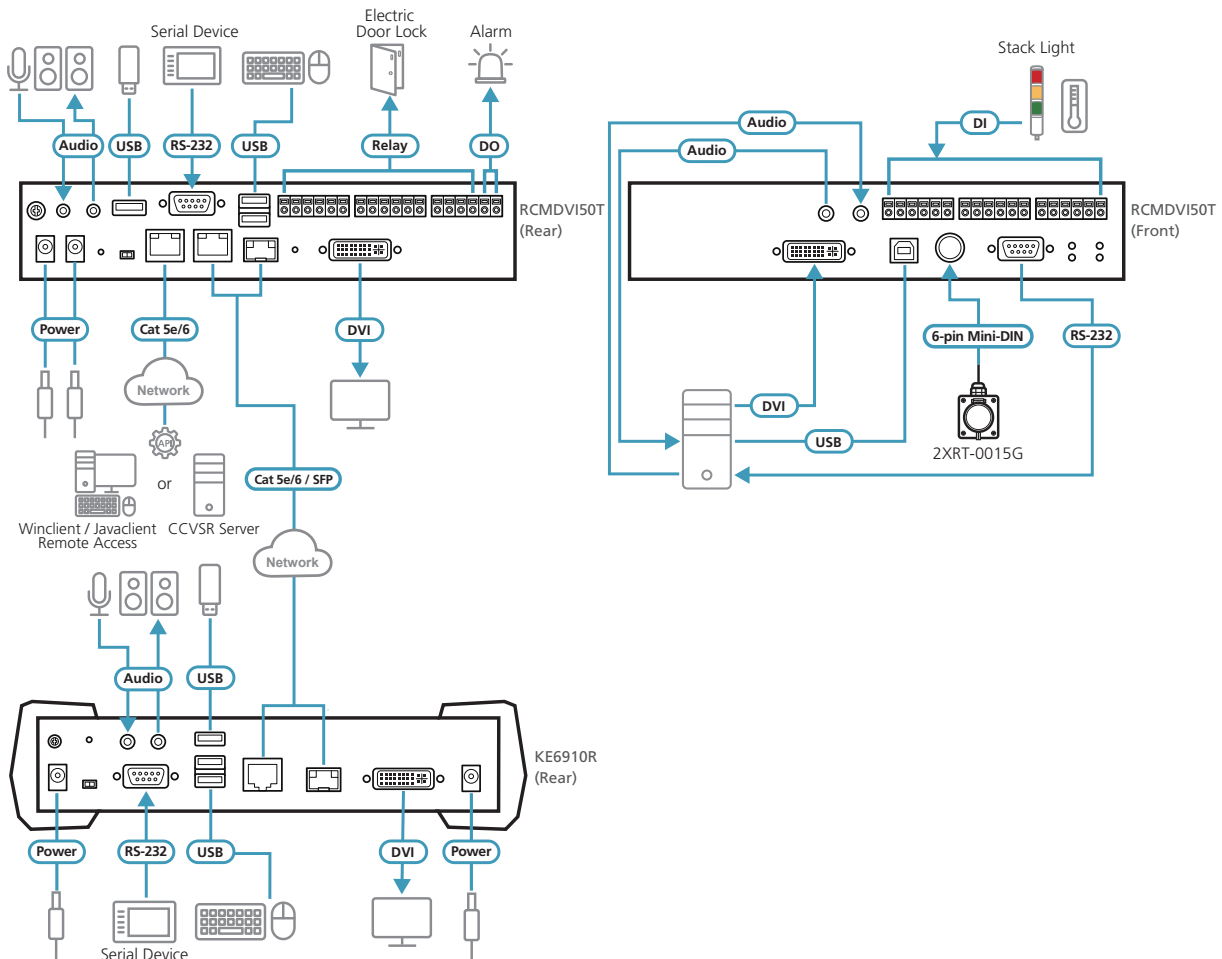
Note: 1. Refer to www.aten.com for more details.

2. SFP modules are required for fiber network connection. Refer to page 3-36 for details.

3. These advanced functions are supported when the KE devices are managed by KE Matrix Management Software (CKKM)

4. The KVM over IP Access Control Box (2XRT-0015G) is sold separately. Refer to page 3-36 for details.

Setup >



Specifications

	RCMDVI00BT	RCMDVI40BT	RCMDVI50T
Connectors			
Console Ports	2 x USB Type-A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type-A Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)	2 x USB Type-A Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Male (Black)
KVM Ports	1 x USB Type-B Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	1 x USB Type-B Female (White) 2 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)	1 x USB Type-B Female (White) 1 x DVI-I Female (White) 1 x Mini Stereo Jack (Green) 1 x Mini Stereo Jack (Pink) 1 x DB-9 Female (Black)
Power	2 x DC Jack (Black)		
LAN Ports	1 x RJ-45 (Black) 1 x SFP Slot		
Internet Ports	1 x RJ-45 (Black)		
LEDs			
Link 10 / 100 / 1000 Mbps	2 for LAN (10: Orange / 100: Orange & Green / 1000: Green) 1 for SFP (Green)		
Power	2 (Green)		
Local	1 (Green)		
Remote	1 (Green)		
Video Resolution	Up to 1920 x 1200 @ 60Hz	Up to 1920 x 1200 @ 60Hz	Up to 2560 x 1600 @ 60Hz
Emulation			
Keyboard / Mouse	USB		
Power Consumption	DC12V: 12.9W	DC12V: 19.7W	DC12V: 17.3W
Environmental			
Operating Temperature	0 – 50 °C		
Storage Temperature	-20 – 60 °C		
Humidity	0 – 95% RH, Non-condensing		
Physical Properties			
Housing	Metal		

Included Accessories

	RCMDVI00BT / RCMDVI40BT / RCMDVI50T
Power Adapters	1
USB DVI-D KVM Cable*	•
Mounting Kit*	•
DVI-D Cable*	• (RCMDVI40BT only)

Note:

*This accessory is only included with KE transmitter models.

Optional Accessories

Description	Part No. / Spec.	Page No.
KE Management Software (CCKM)	Please refer to page 5-3	
Access Control Box	2XRT-0015G	5-39
USB DVI-D Single Link KVM Cable	2L-7D02U (1.8 m); 2L-7D03U (3 m); 2L-7D05U (5 m)	17-10
USB VGA-DVI KVM Cable	2L-7DX2U (1.8 m); 2L-7DX3U (3 m)	17-11
USB HDMI-DVI KVM Cable	2L-7D02DH (1.8 m)	17-11
2X-021G Dual Rack Mount Kit	Please refer to www.aten.com for more details.	
2X-031G Single Rack Mount Kit		

RCMHDMI101U

1-Local/Remote Share Access Single Port 4K HDMI KVM over IP Switch



RCMHDMI101U



Front



Rear



Highlights

- Supports Access Control Box which allows users to enable / disable remote control privilege
- Supports exclusive integrated RCM OCR API with various function for system integrators
- Supports 5-pin Relay / DI control Terminal for environment monitoring and control
- Supports HDMI resolution up to 4K DCI (4096 x 2160) @ 30 Hz
- OSD title bar notification – instantly notifies users if any urgent event occurs
- Local console priority – gives the local console the priority over remote consoles to access the connected server
- Provides a FPGA graphics processor for better image quality and enhanced fps (frames per second) throughput for crisp video display response
- A mini USB port on the front panel serves as a Laptop USB Console (LUC) port
- Dual power supply to ensure seamless connectivity
- Two 10 / 100 / 1000 Mbps NICs for redundant LAN or two IP operation
- Audio support – microphone and speakers are supported on the local and remote console

Specifications

RCMHDMI101U	
Connectors	
Console Ports	2 x USB Type-A Female (White) 1 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type-B Female (White) 1 x HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Type-B Female
Power	2 x DC Jack (Black)
Serial Port	1 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard / Mouse	USB
LEDs	
Power	2 (Green)
Video Resolution	4096 x 2160 @ 30 Hz
Environmental	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 – 60 °C
Humidity	0–80% RH, Non-condensing
Physical Properties	
Housing	Metal

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cable	2L-7D02UH (1.8 m)	17-11

RCMDP101U

1-Local/Remote Share Access Single Port 4K DisplayPort KVM over IP Switch



RCMDP101U



Front



Rear



Highlights

- Supports ATEN Access Control Box for on-site enabling / disabling of remote control privilege
- Supports exclusive integrated RCM OCR API with various function for system integrators
- Supports 5-pin Relay/DI control Terminal for environment monitoring and control
- Pixel clear DP compatible with DP 1.2 up to 4K DCI (4096 x 2160) @ 30Hz
- OSD title bar notification – instantly notifies users if any urgent event occurs
- Local console priority – gives the local console the priority over remote consoles to access the connected server
- Provides a FPGA graphics processor for better image quality
- A mini USB port on the front panel serves as a Laptop USB Console (LUC) port
- Dual power supply to ensure seamless connectivity
- Audio support – microphone and speakers are supported on the local and remote console

Specifications

	RCMDP101U
Connectors	
Console Ports	2 x USB Type A Female (White); 1 x DisplayPort Female (Black); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type B Female (White); 1 x DisplayPort Female (Black); 1 x Mini Stereo Jack Female (Green); 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Mini-B Female
Power	2 x DC Jack
Serial Port	2 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard/Mouse	USB
LEDs	
Power	2 (Green)
Video	
	4096 x 2160 @ 30 Hz
Power Consumption	
	DC5V:9.76W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.85 kg (1.87 lb)
Dimensions (L x W x H)	20.00 x 14.93 x 2.85 cm (7.87 x 5.88 x 1.12 in.)

Optional Accessories

Type	Part No. / Spec.	Page No.
DisplayPort Cables	2L-7D02DP (2 m) 2L-7D03DP (3 m) 2L-7D04DP (4.6 m)	17-11
HDBaseT Cat 6 Cable	2L-2910	17-11

RCMDVI101

1-Local/Remote Share Access Single Port DVI KVM over IP Switch



RCMDVI101



Front



Rear



Highlights

- Supports ATEN Access Control Box for on-site enabling / disabling of remote control privilege
- Supports customizable API Panel Array by system integrators to monitor all machines for operators
- Supports exclusive integrated RCM OCR API with various function for system integrators
- OSD title bar notification – instantly notifies users if any urgent event occurs
- Local console priority – gives the local console the priority over remote consoles to access the connected server
- Provides a FPGA graphics processor for better image quality
- A mini USB port on the front panel serves as a Laptop USB Console (LUC) port
- Dual power supply to ensure seamless connectivity
- Audio support – microphone and speakers are supported on the local and remote console
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software package requirements

Specifications

	RCMDVI101
Connectors	
Console Ports	2 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Mini-B Female
Power	2 x DC Jack
Serial Port	2 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard/Mouse	USB
LEDs	
Power	1 (Green)
Video	
	1920 x 1200 @ 60 Hz
Power Consumption	
	DC5V: 5.55W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.84 kg (1.85 lb)
Dimensions (L x W x H)	20.00 x 15.49 x 2.85 cm (7.87 x 6.1 x 1.12 in.)

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-11
USB HDMI to DVI-D Single Link KVM Cable	2L-7D02DH (1.8 m)	17-11

RCMVGA101

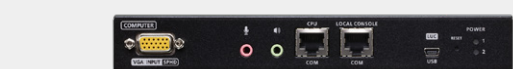
1-Local/Remote Share Access Single Port VGA KVM over IP Switch



RCMVGA101



Front



Rear



Highlights

- Supports ATEN Access Control Box for on-site enabling / disabling of remote control privilege
- Supports customizable API Panel Array by system integrators to monitor all machines for operators
- Supports exclusive integrated RCM OCR API with various function for system integrators
- OSD title bar notification – instantly notifies users if any urgent event occurs
- Local console priority – gives the local console the priority over remote consoles to access the connected server
- Provides an FPGA graphics processor for better image quality
- A mini USB port on the front panel serves as a Laptop USB Console (LUC) port
- Dual power supply to ensure seamless connectivity
- Audio support – microphone and speakers are supported on the local and remote console
- Supports 5-pin Relay/DI control Terminal for environment monitoring and control
- Supports Legacy PS/2 keyboard and mouse

Specifications

RCMVGA101	
Connectors	
Console Ports	2 x USB Type A Female (White) 1 x VGA Female (Blue) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x SPHD Female (Yellow) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
LAN Ports	2 x RJ-45 Female
LUC Port	1 x USB Mini-B Female
Power	2 x DC Jack
Serial Port	2 x RJ-45 Female
Control Port	1 x PS/2 Female
Switches	
Reset	1 x Semi-recessed pushbutton (Black)
Emulation	
Keyboard/Mouse	USB
LEDs	
Power	2 (Green)
Video	
	1920 x 1200 @ 60 Hz
Power Consumption	
	DC5V:7.46W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.86 kg (1.89 lb)
Dimensions (L x W x H)	20.00 x 15.41 x 2.85 cm (7.87 x 6.07 x 1.12 in.)

Optional Accessories

Type	Part No. / Spec.	Page No.
USB KVM Cables	2L-5201U (1.2 m), 2L-5202U (1.8 m), 2L-5203U (3 m), 2L-5205U (5 m)	17-10
PS/2 KVM Cables	2L-5201P (1.2 m), 2L-5202P (1.8 m), 2L-5203P (3 m), 2L-5206P (6 m)	17-9
PS/2-USB VGA KVM Cables	2L-5301UP (1.2 m), 2L-5302UP (1.8 m), 2L-5303UP (3 m)	17-10

RCM416 / RCM464V

The Remote Control & Monitoring (RCM) Series of KVM over IP Switches



RCM416



Front



Rear



Highlights

- Supports ATEN Access Control Box for on-site enabling / disabling of remote control privilege
- Supports self-design Panel Array Mode or ATEN software to monitor all machines for operators with multiple RCM products
- Supports exclusive integrated RCM API (DLL) interface with various function for system integrators
- Supports OCR API (DLL) interface for optical character recognition

RCM Series Exclusive

- Supports ATEN Access Control Box for on-site enabling / disabling of remote control privilege
- Supports Panel Array to monitor all machines for operators with multiple RCM products
- Supports exclusive integrated RCM API (DLL) interface with various function for system integrators
- Supports OCR API (DLL) interface for optical character recognition
- High grade security – supports FIPS 140-2 level 1 security standards
- Extreme virtual media speed – 2 x faster virtual media transmission speed
- Advanced FPGA graphics processor – with an Full HD resolution of 1920 x 1200
- Simultaneously share one local console and one/two/four/eight independent connection(s) to the attached servers

Hardware

- High port density – RJ-45 connectors and Cat 5e/6 cable for up to 16 ports in a 1U housing
- Laptop USB Console (LUC) – A dedicated USB port directly connects to a laptop for easy console operation
- One/two/four/eight separate buses for remote KVM over IP access
- Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation
- Blade server support
- Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
- Local console provides USB keyboard and mouse support
- Supports multiplatform server environments: Windows, Mac OS X, Sun, Linux and VT100 based serial devices
- Audio enabled
- High video resolution – up to 1920 x 1200 @ 60Hz with 24-bit color depth at the switch's local console and on remote session displays
- Monitor and control up to 16/64 computers on a single level, or control up to 512 computers in a cascade*

* Cascade-compatible KVM Switches include the following: CS9134, CS9138, CS1308, CS1316, KH1508A, and KH1516A

Management

- Up to 64 user accounts – up to 32 users simultaneously share the control
- Green IT-Fan speed varies according to temperature
- Event logging and Windows-based Log Server support
- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Customizable events notification
- Firmware upgradeable
- Out-of-Band Access-Modem dial-in/dial-out/dial-back support
- Adapter ID Function: Stores port information allowing administrators to relocate the servers to different ports, without having to re-configure the adapters and switches

- Port Share Mode allows multiple users to gain access to a server simultaneously
- Power Association enables the switch's KVM ports to be associated with ATEN PDUs power outlets for remote power management
- IPv6 capable

Easy-to-Use Interface

- ATEN Exclusive Panel Array Mode™ simultaneously monitoring for both local console operators and remote access users
- Local Console, browser-based, and AP GUIs offer a unified Multilanguage interface to minimize the user training time and increase productivity
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera, Mozilla, Netscape
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software package required
- Users can launch multiple virtual remote desktop sessions to control multiple servers during the same login
- Full-screen or sizable and scalable Virtual Remote Desktop
- Keyboard/Mouse Broadcast – keyboard and mouse inputs can be duplicated on all the attached servers
- Video syncing with the local console – local console monitor's EDID information stored on the KVM Adapter Cables for display resolution optimization

Advanced Security

- Remote authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates to secure users log in from browser
- Flexible encryption design allows users to choose any combination of 56-bit DES, 168-bit 3DES, 256-bit AES, 128-bit RC4, or Random for independent KB/Mouse, video, and virtual media data encryption
- Support for IP/MAC Filter
- Configurable user and group permissions for server access and control
- Automated CSR creation utility and third party CA certificate authentication

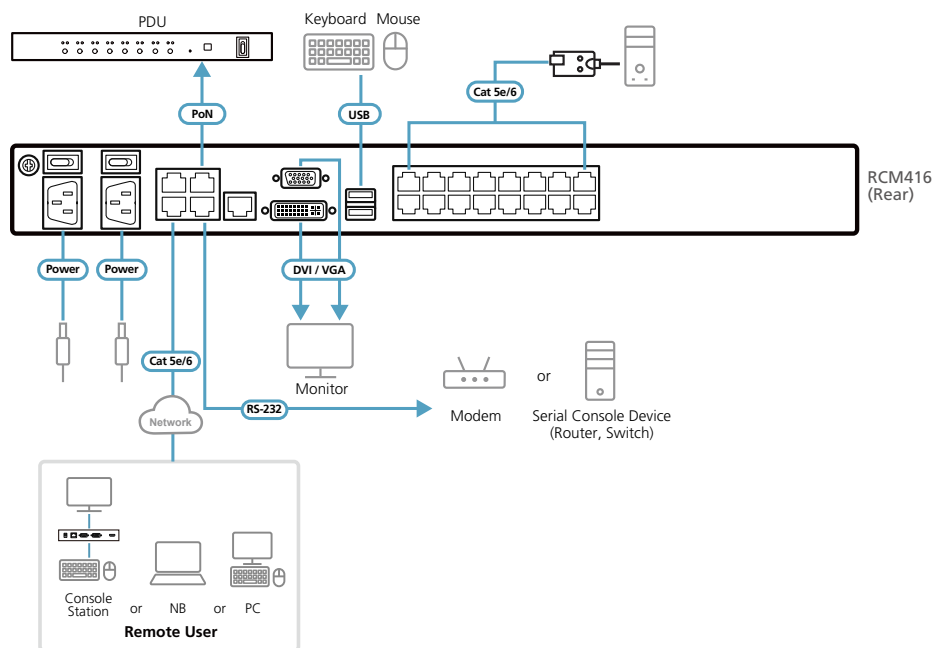
Virtual Media

- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Support DVD/CD drives, USB mass storage devices, PC hard drives and ISO images

Virtual Remote Desktop

- Video quality can be adjusted to optimize data transfer speed; monochrome color depth setting, threshold and noise settings for compression of the data bandwidth in low bandwidth situations
- Full screen video display or scalable video display
- Message Board for communication among remote users
- Mouse DynaSync-automatically synchronizes the local and remote mouse movements
- Exit Macros support
- On-screen keyboard with multi-language support
- BIOS-level access for trouble shooting

Setup >



Specifications

	RCM416	RCM464V
Console Connections		
Local	1	1
Remote	4	4
Computer Connections		
Direct	16	64
Maximum	512 (via Cascade)	
Port Selection	Pushbuttons, Hotkeys, GUI	
Connectors		
Console Ports	2 x USB Type-A Female (White); 1 x DVI-D Female (White); 1 x VGA HDB-15 (Blue); 1 x RJ-45 Female (Black)	
USB Port	3 x USB Type-A Female	
Audio	2 x Audio Jack Female	
Laptop USB Console (LUC) Port	1 x USB Mini-B Female	
KVM Ports	16 x RJ-45 Female	64 x RJ-45 Female
Serial	1 x RJ-45 Female	
PON	1 x RJ-45 Female	
LAN Ports	2 x RJ-45 Female	
Power	1 x IEC 60320/C14	2 x IEC 60320/C14
Switches		
Port Selection	2 x Pushbuttons	
Reset	1 x Semi-recessed Pushbutton	
Power	1 x Rocker Switches	2 x Rocker Switches
LEDs		
Online / Selected	16 (Green/Orange)	64 (Green/Orange)
Link 10 / 100 / 1000 Mbps	2 (Red/Orange/Green)	
Power	1 (Blue)	2 (Blue)
Emulation		
Keyboard / Mouse	PS/2; USB	
Video		
Local	1920 x 1200 @ 60Hz	
Remote	1920 x 1200 @ 60Hz	
Scan Interval	1 – 255 Sec	
Maximum Input Power Rating	100–240V~ ; 50-60Hz; 1A	
Power Consumption	AC110V:40.5W AC220V:39.6W	AC110V:49.4W:268BTU AC220V:47.3W:258BTU
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	5.38 kg (11.85 lb)	7.00 kg (15.42 lb)
Dimensions (L x W x H)	43.36 x 41.21 x 4.40 cm (17.07 x 16.22 x 1.73 in.)	43.36 x 41.26 x 8.80 cm (17.07 x 16.24 x 3.46 in.)

Included Accessories

	RCM416	RCM464V
Power Cord	•	2
Lok-U-Plugs	•	2
Lok-U-Plug Installation Tool	•	•
Mounting Kit	•	•
Foot Pad Set (4 pcs.)	•	•

Optional Accessories

Description	Page No.
KVM Adapter Cables	Please refer to page 17-13
Management Software	Please refer to page 9-1
KVM over IP Console Stations	Please refer to page 7-9

KA7174

KVM Adapter Module with USB, PS/2, and RS-232 Local Console

KA7174



Front



Rear

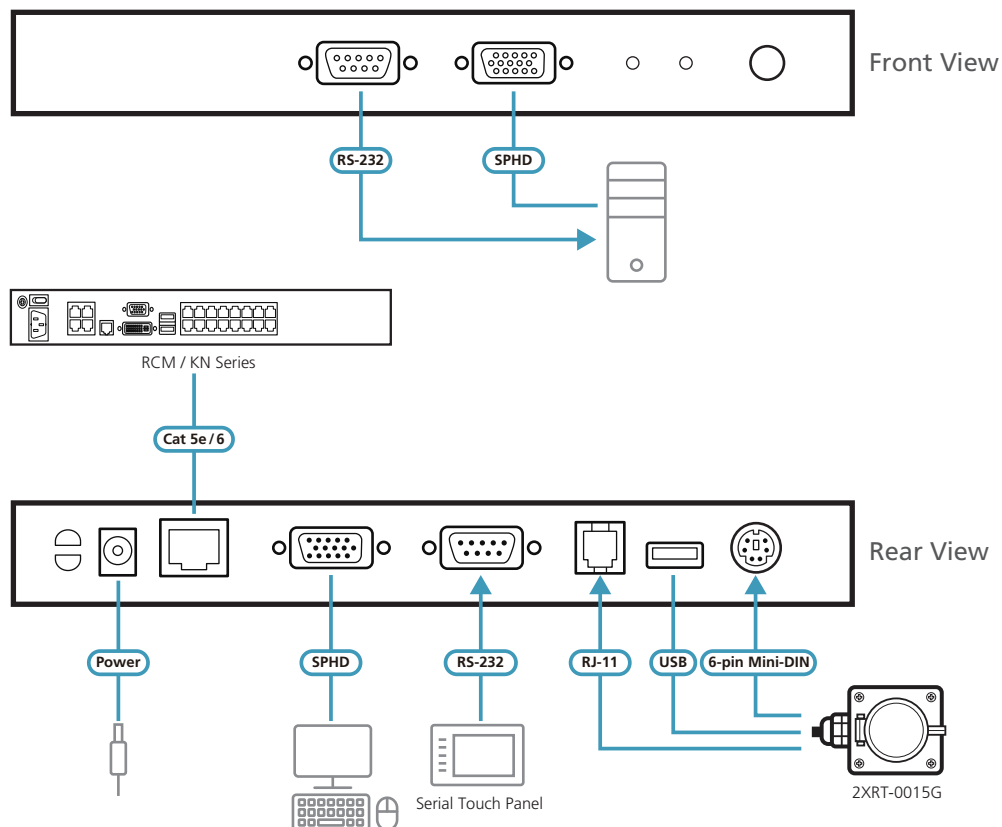


Highlights

- Compatible with ATEN 2XRT-0015G KVM over IP Access Control Box to grant users at the local console full control of access to servers
- Cat 5e/6 cable connects the device and KVM switch
- Supports computers with PS/2 or USB keyboards and mice
- Local console operation – control your system from the extended USB keyboard, USB mouse, and monitor via local console
- Pushbutton operating mode selection for privileged console control
- Built-in ASIC for greater reliability and compatibility
- USB overcurrent detection and prevention
- Built-in ESD protection and surge protection
- Superior video quality – supports resolution up to 1920 x 1200 (Reduced blanking)*
- Supports VGA , SVGA , SXGA , UXGA , WUXGA and multisync monitors; local monitor supports DDC; DDC2; DDC2B
- Easy to install – no software required - connecting cables to the devices is all it takes

Note: *This maximum resolution may vary depending on the transmission distance. For more details, please refer to the product pages of the connected KVM switches.

Setup >



Specifications

	KA7174
Connectors	
Console Ports	1 x SPHD Male (Yellow)
KVM Ports	1 x SPHD Female (Yellow)
Power	1 x DC Jack (Black)
Control	1 x 6-pin Mini-DIN Female (Purple)
	1 x RJ-11 Female + 1 x USB Type-A Female (Black)
RS-232	1 x DB-9 Male (Black)
	1 x DB-9 Female (Black)
Link	1 x RJ-45 Female (Black)
Pushbuttons	
Operating Mode Selection	1 x Pushbutton
LEDs	
Local	1 (Green)
Remote	1 (Green)
Emulation	
Keyboard / Mouse	PS/2, USB
Video	Up to 1920 x 1200 @ 60 Hz
Power Consumption	DC 5 V : 1.57 W : 30 BTU
Environmental	
Operating Temperature	0 – 50 °C
Storage Temperature	-20 – 60 °C
Humidity	0–95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.49 kg (1.08 lb)
Dimensions (L x W x H)	20.30 x 8.64 x 2.50 cm (7.99 x 3.40 x 0.98 in.)

CS261TK

USB DVI Computer Sharing Device and Access Control Box Kit



CS261TK



Highlights

- Supports Access Control Box which allows users to enable/disable remote control privilege
- Expands control of a DVI computer with shared access between two user consoles (one at a time)
- Superior video quality – supports resolutions up to 1080p, 1920 x 1200, and 4K @ 30 Hz¹
- Supports 2.1 channel stereo sound and high definition audio²
- HDCP compliant – supports HDCP-enabled devices
- EDID Expert™ – selects optimum EDID settings for smooth power up, highquality display and use of the best resolution across different monitors
- Exclusive Console Modes:
 - Auto: Computer access switches to a console on a first come first serve basis
 - Manual: Computer access switches to a console using the front panel pushbutton or a hotkey
- No software required – eliminates incompatibility and installation issues and the need to configure software

Note:

1. 4K @ 30 Hz is supported when using a DVI to HDMI cable.
2. High definition audio can be converted using a DVI to HDMI cable.

Specifications

	CS261TK
Computer Connections	1
Console Selection	Pushbutton, RS-232, Hotkey*
Connectors	
Console Ports	4 x USB Type A Female 2 x DVI-D Female (White) 2 x 3.5mm Audio Jack Female (Green) 2 x 3.5mm Audio Jack Female (Pink)
KVM Ports	1 x USB Type B Female 1 x DVI-D Female (White) 1 x 3.5mm Audio Jack Female (Green) 1 x 3.5mm Audio Jack Female (Pink)
RS-232	1 x RJ-11 Female
Power	1 x DC Jack (Black)
Switches	
Mode Selection	1 x Pushbutton
Reset	1 x Semi-recessed Pushbutton
DIP	1 x 4 pin
LEDs	
Selected	2 (Green)
Manual	1 (Orange)
Video	3840 x 2160 @ 30Hz
Power Consumption	DC 5V: 2.4W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.72 kg (1.59 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)

Note:

*Selecting the console via hotkeys only works in Manual Mode.

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI to DVI-D KVM Cable	2L-7D02DH (1.8 m)	17-11
USB DVI-D Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	17-11
HDMI to DVI Adapter	2A-128G	17-12
DVI to HDMI Adapter	2A-127G	
Access Control Box	2XRT-0015G	5-39

Secure Device Servers

SN3001 / SN3002 / SN3001P / SN3002P

The ATEN SN3000 series of Secure Device Server products are external IP-based network devices that securely connect legacy serial (RS-232) devices to an Ethernet network and can be accessed remotely from a computer located anywhere, allowing you to expand the number of serial ports for any host computer that supports the TCP/IP protocol.

The SN3000 series is especially suited for industrial process control applications due to the fact that the Supervisory Control and Data Acquisition (SCADA) systems used across many industries collect data from PLCs, meters, and sensors via serial ports. The SN3000 series bi-directionally translates data between the serial and Ethernet formats, and facilitates access to the data from all data collection instruments at remote sites or local ones, as long as they connected to the Ethernet network.

The SN3000 series has a number of useful operation modes.

In particular, the SN3000 series supports Secure TCP Server, Secure TCP Client, Secure Serial Tunneling, Secure Real COM, and Console Management modes for security-critical applications, such as telecom, access control, and remote site management. Furthermore, IEEE 802.3af-compliant models are available, which can be powered by a PoE PSE device without an additional power supply.



Serial-to-Ethernet Connectivity

The SN3000 series make serial devices network-ready in an instant and can be deployed in a wide range of commercial applications in industrial process automation environments that require serial device connectivity, including industrial control, data acquisition, device management, environment monitoring, sensor monitoring, remote site management, and more.

Versatile Operation Modes

To meet a broad range of application requirements, the SN3000 series offers a wide range of secure operation modes, including Secure Real COM, Secure TCP Server/Client, Secure Serial Tunneling, Console Management (SSH), and Console Management Direct (SSH), as well as versatile standard operation modes, including Real COM, TCP Server/Client, Serial Tunneling, UDP, Console Management (Telnet), and Console Management Direct (Telnet), so with the SN3000 series, users can rest assured that serial data is transmitted securely over both private and public networks.

Secure Data Transmission

In addition to transmitting serial data securely with secure operation modes, the SN3000 series can be managed via secure browser access (HTTPS) and secure console access (SSH). Moreover, IP address filtering can prevent malicious attacks for extra security protection.

Centralized Authentication and Authorization

In addition to internal user authentication, SN3000 devices are equipped with external user authentication methods to support third-party centralized authentication servers. Furthermore, SN3000 devices support port-specific access rights. The administrator may set different port access rights to specific users on a port-by-port basis.

Easy Management

The SN3000 series is straightforward and easy to set up and use. Browser access is supported via an intuitive GUI that facilitates a quick setup and control of the devices in a few easy steps. A web-based quick setup wizard is provided for fast configuration, while terminal-based access with a menu-driven UI via Telnet/SSH is also available.

Troubleshooting Tools

For 24-7 serial device status monitoring, SN3000 series can automatically send event notifications when the connected serial devices are offline – such as during a power failure – and for easy troubleshooting, SN3000 series supports instant system event notifications. Port logs are saved to internal memory or Syslog server, while support for SNMP agent and event notification provides convenient notifications via SMTP email and SNMP Trap.

Redundant Power and Surge Protection

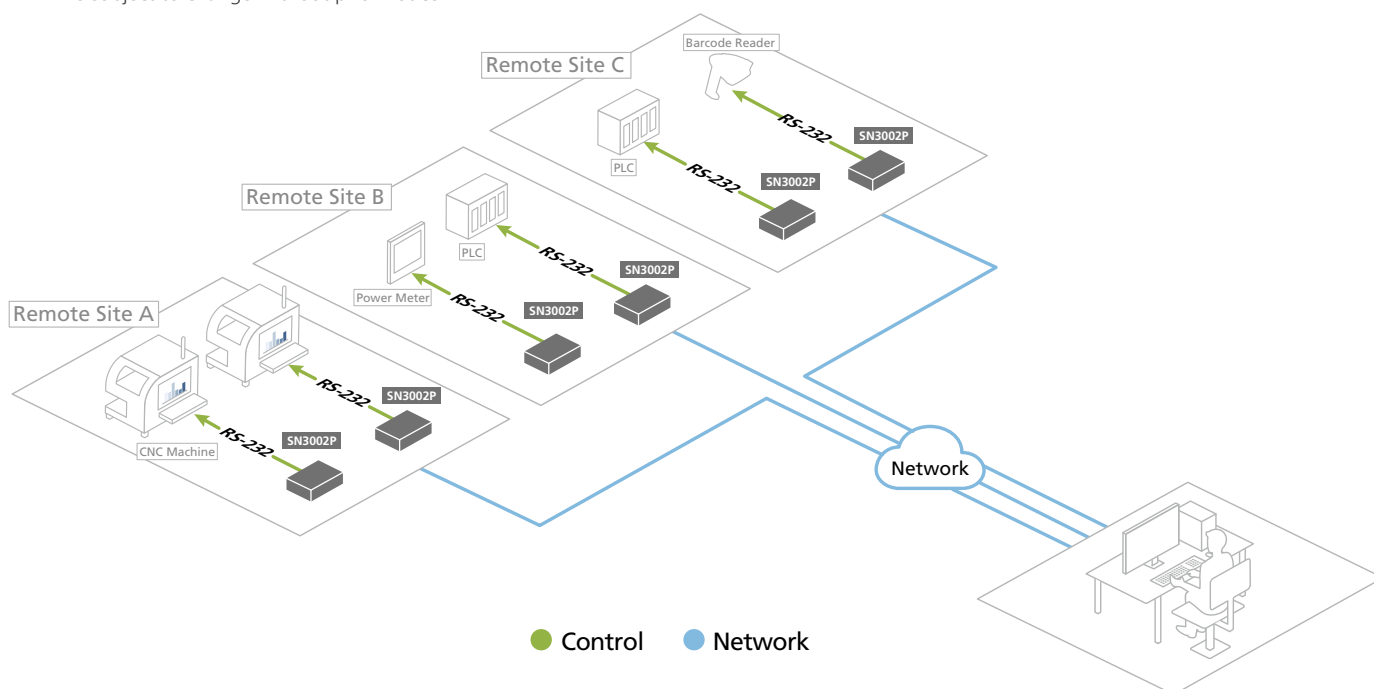
Industrial control applications are reliant on maintaining power, so the SN3000 series provides redundant power input (power Jack and terminal block) for fail-safe power at all times. Furthermore, IEEE 802.3af-compliant models (SN3001P, SN3002P) are available, which can be powered by a PoE PSE device without an additional power supply. In addition, to protect devices from voltage spikes and withstand electrically noisy environments, the SN3000 series features surge protection for serial, Ethernet, and power.

Zero Data Loss

The SN3000 series provides the reliability required for secure serial-to-Ethernet data transmission even when the network connection fails. SN3000 devices queue all data in an internal 64 KB port buffer for release as soon as the network connection is re-established.

Note:

The features highlighted above are not available on all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Comparison

Model	SN3001/SN3002	SN3001P/SN3002P
Serial Ports	1 x DB-9 Male (Black) / 2 x DB-9 Male (Black)	1 x DB-9 Male (Black) / 2 x DB-9 Male (Black)
Serial Standard	RS-232	RS-232
LAN Ports	1 (10/100M)	1 (10/100M)
Power	AC / DC	AC / DC / PoE (IEEE 802.3af)
Operating Temp.	0 to 60°C (32 to 140°F)	0 to 60°C (32 to 140°F)
Standard Operation Modes	Real COM, TCP Server/Client, Serial Tunneling, UDP, Console Management (Telnet), and Console Management Direct (Telnet)	Real COM, TCP Server/Client, Serial Tunneling, UDP, Console Management (Telnet), and Console Management Direct (Telnet)
Secure Operation Modes	Secure Real COM, Secure TCP Server/Client, Secure Serial Tunneling, Console Management (SSH), and Console Management Direct (SSH)	Secure Real COM, Secure TCP Server/Client, Secure Serial Tunneling, Console Management (SSH), and Console Management Direct (SSH)

SN3001 / SN3002 SN3001P / SN3002P

1/2-Port RS-232 Secure Device Server

1/2-Port RS-232 Secure Device Server with PoE



SN3002P



Front



Rear



Highlights

- Connect legacy serial (RS-232) devices to an Ethernet network
- Secured operation modes – Secured Real COM, Secured TCP Server/Client, Secured Serial Tunneling, Console Management (SSH), and Console Management Direct (SSH)
- Surge protection for serial, Ethernet, and power
- Redundant power input (power jack and terminal block) for fail-safe power
- Support Power over Ethernet (PoE) function – compliant with the IEEE 802.3af (SN3001P, SN3002P)

Serial-to-Ethernet Connectivity

- 1 or 2 RS-232 serial ports for secured serial data over Ethernet transmission
- Secured operation modes – Secured Real COM, Secured TCP Server/Client, Secured Serial Tunneling, Console Management (SSH), and Console Management Direct (SSH)
- Standard operation modes – Real COM, TCP Server/Client, Serial Tunneling, UDP, Console Management (Telnet), and Console Management Direct (Telnet)
- Real COM, Real TTY, and Fixed TTY drivers for Windows, Linux, and UNIX
- Convenient console management access via Java viewer (SSH/Telnet) or third-party clients such as PuTTY
- Easy console port access via Java viewer and Sun Solaris ready (“break-safe”)
- Multiple users can simultaneously access the same port – up to 16 connections per port

Hardware

- Redundant power input (power jack and terminal block) for fail-safe power
- IEEE 802.3af-compliant PoE power device equipment (SN3001P, SN3002P)
- Surge protection for serial, Ethernet, and power
- DIN-rail mounting, wall mounting, rack mounting, and desktop installation available
- Supports baud rates of 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230.4k, 460.8k, 921.6k bps

Security

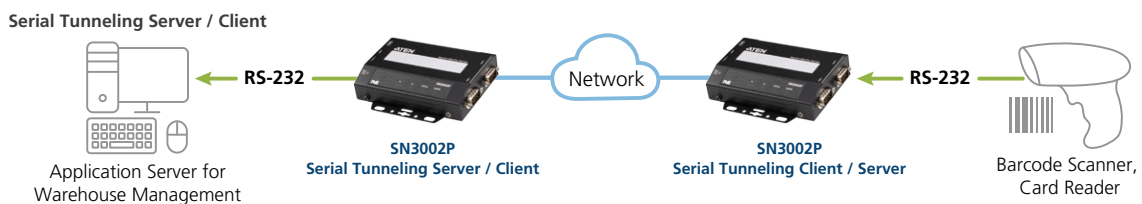
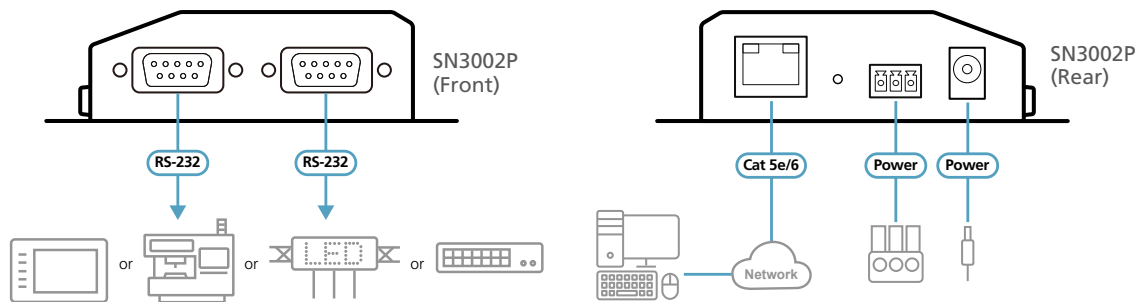
- Supports secured login from browsers with TLS 1.2 data encryption and RSA 2048-bit certificates
- Configurable user permissions for port access and control
- Local and remote authentication and login
- Third-party authentication (e.g. RADIUS)
- IP address filter for security protection

System Management

- Browser access with an intuitive GUI
- Web-based quick setup wizard for fast configuration
- Terminal-based access with a menu-driven UI via Telnet/SSH
- Online/Offline detection of connected serial devices (including terminal blocks) – automatically send event notifications when the devices are offline (e.g. power failure) for device status monitoring

- System event logs will be saved to internal memory or Syslog server
- Port logs will be saved to internal memory or Syslog server
- SNMP agent (v1/v2c)
- Event notification – supports notification of SMTP email and SNMP Trap (v1/v2c)
- Backup / Restore system configuration and upgradeable firmware
- 64 Kbyte port buffer prevents data loss when the network is down
- NTP for time server synchronization
- Multi-language web-based GUI

Setup >



● Control ● Network

Specifications

	SN3001	SN3002	SN3001P	SN3002P
Connectors				
Serial	1 x DB-9 Male	2 x DB-9 Male	1 x DB-9 Male	2 x DB-9 Male
Network	1 x RJ-45 Female		1 x RJ-45 Female	
Power	1 x DC Jack 1 x 3-pole Terminal Block		1 x DC Jack 1 x 3-pole Terminal Block 1 x RJ-45 (PoE, IEEE 802.3af)	
LEDs				
Power	1 (Green)		1 (Green)	
Status	1 (Yellow Green/Red)		1 (Yellow Green/Red)	
10/100 Mbps	2 (Green/Orange)		2 (Green/Orange)	
Ports	1 (Green/Orange)	2 (Green/Orange)	1 (Green/Orange)	2 (Green/Orange)
Input Voltage	DC Jack: 9VDC Terminal Block: 9-48VDC		DC Jack: 9VDC (Optional Power Adapter) Terminal Block: 9-48VDC PoE: 48VDC	
Power Consumption	DC9V:0.634W; DC48V:0.804W	DC9V:0.769W; DC48V:0.939W	DC9V:0.805W DC48V:0.975W; POE:1.22W	DC9V:0.94W DC48V:1.11W; POE:1.39W
Interfaces				
Serial	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Baud Rate: 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230400, 460800, 921600 bps Data Bits: 5, 6, 7, 8 Parity: None, Even, Odd, Space, Mark Stop Bits: 1, 1.5, 2 Flow Control: RTS/CTS, DTR/DSR, XON/XOFF			
Network	10/100 Base TX Built-in 1.5 kV Magnetic Isolation Protection			
Compliance	EMC: EN 55032/35 EMI: CISPR 32, FCC Part 15B Class A EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV (Power Adapter), 1kV (Terminal Block); Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 10 MHz: 3 V/m; 10 kHz to 30 MHz: 3 to 1 V/m; 30 kHz to 80 MHz: 1 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs RoHS			
Environmental				
Operating Temperature	0 – 60°C			
Storage Temperature	-40 – 75°C			
Humidity	5 – 95% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	0.20 kg (0.44 lb)	0.21 kg (0.46 lb)	0.21 kg (0.46 lb)	0.22 kg (0.48 lb)
Dimensions (L x W x H)	9.80 x 11.70 x 2.60 cm (3.86 x 4.61 x 1.02 in.)			
Installation	Desktop, Wall Mounting, Din-Rail Mounting, Rack Mounting (with VE-RMK1U)* *Rack mounting kit (VE-RMK1U) is sold separately.			
Carton Lot	10 pcs			

Included Accessories

	SN3001	SN3002	SN3001P	SN3002P
Power Adapter	•	•	N/A	N/A
DC Terminal Connector	•	•	•	•
Foot Pad Set (4 pcs)	•	•	•	•
DIN-Rail Mount Kit	•	•	•	•

Optional Accessories

Description	Part No. / Spec.	Page No.
2X-051G DIN-Rail Mount Kit	Please refer to www.aten.com for more details.	
VE-RMK1U Extender Rack Mount Kit		
Power Adapter (9VDC, 100-240VAC, 50-60Hz, 0 to 40°C operating temperature)		

2X-051G Installation Diagram

Perpendicular Installation

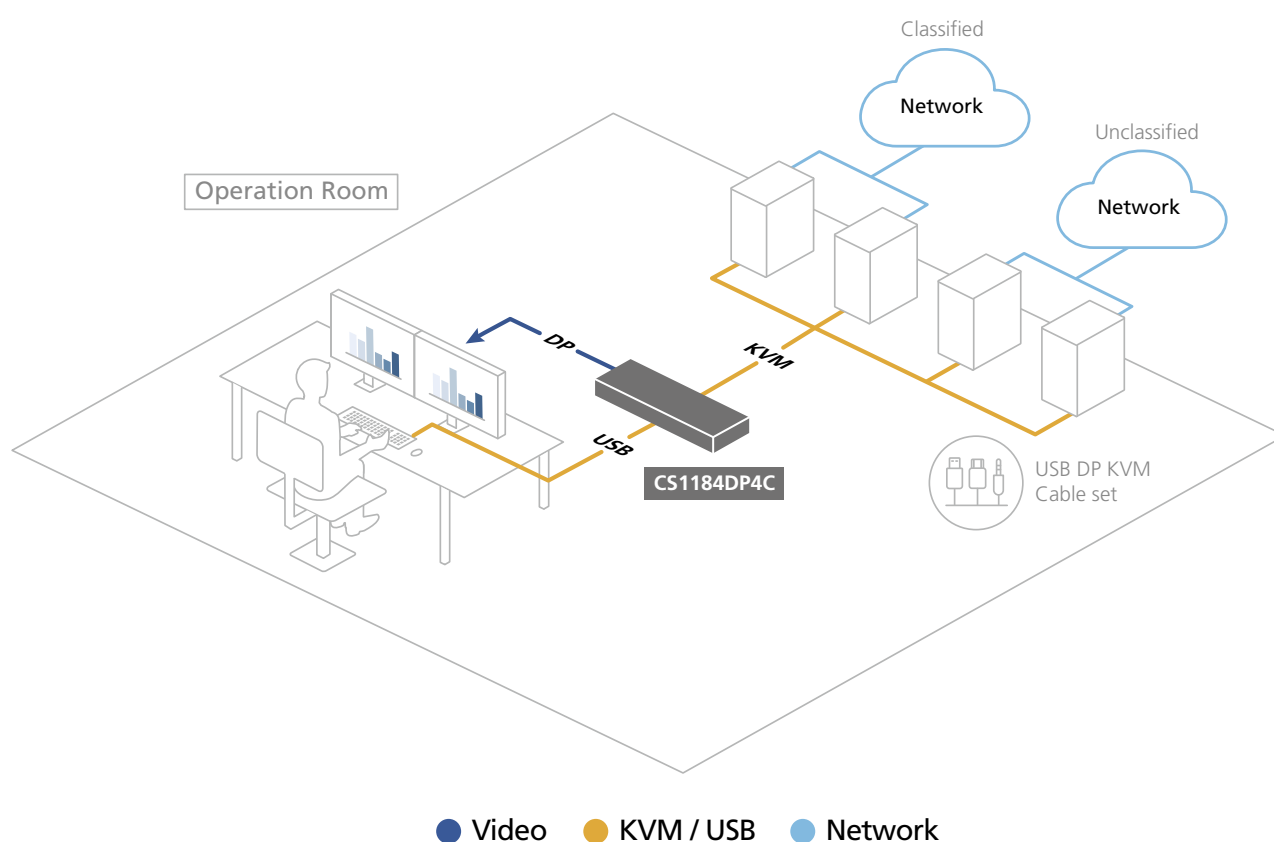


Parallel Installation



Secure KVM Switches

ATEN Secure KVM Switches are compliant with Common Criteria and NIAP Protection Profile (PSD PP v4.0, PSS PP v3.0) and specifically designed to enforce stringent desktop security by keeping sensitive assets isolated while providing advanced user data protection and flexible administrative security management features. They are suitable for deployment in any industry that needs to handle sensitive, confidential, or proprietary information, or implement multi-level security on separate networks, such as government and military agencies, healthcare providers, banking & finance institutions, and more.



PSD PP v4.0 Secure KVM Switch Series



2/4/8-Port USB DVI / HDMI / DisplayPort

Single / Dual Display Secure KVM Switch Series



Front

- CS1144H4C



- CS1148D4C



- CS1148DP4C



Rear

- CS1144H4C



- CS1148D4C



- CS1148DP4C



NIAP Common Criteria Compliant

- Compliant with PSD PP v4.0 (Protection Profile for Peripheral Sharing Device, Version 4.0) security requirements

Multi-Layered Security

- Always-on chassis intrusion detection – renders the ATEN PSD PP v4.0 Secure KVM Switch series inoperable when physical tampering is detected
- Tamper-evident labels – provides visual indication of any attempt to access the ATEN PSD PP v4.0 Secure KVM Switch's internal components
- Non-reprogrammable firmware – prevents reprogramming the ATEN PSD PP v4.0 Secure KVM Switch's firmware
- Restricted peripheral connectivity – non-authorized HIDs (Human Interface Devices), video, or authentication device connections are rejected
- Strict audio filtration protects against audio leakage

Data Channel Isolation and Unidirectional Data Flow

- True data path isolation – data cannot be transferred between computers
- The ATEN PSD PP v4.0 Secure KVM Switch controls and isolates data flow between the console devices and connected computers
- Unidirectional data flow between console devices and the selected computer is ensured

User Data Protection

- The ATEN PSD PP v4.0 Secure KVM Switch's keyboard/mouse data is automatically deleted after transmission and automatically purged when the KVM port focus is switched

Security Management

- Supports administrative configuration of CAC Port filtering to accept or reject specific USB authentication devices
- Supports administrative configuration of Keyboard/Mouse Ports filtering to reject specific USB HID devices
- Provides administrative functions for authorized administrators to audit KVM log data

Features

- Superior video quality – up to 4K (3840 x 2160 @ 60Hz)¹
- Port selection via pushbuttons / Remote Port Selector (RPS) only to enhance security²
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources
- Supports enable/disable CAC function by port
- LED indicators for peripheral filtering and KVM security status
- Rugged metal enclosure
- Built-in internal power
- Supports analog audio (speaker only)³

Note: 1. HDMI Secure KVM Switch series supports console video output resolutions up to 3840 x 2160 @ 60 Hz.
DisplayPort Secure KVM Switch series supports console video output resolutions up to 3840 x 2160 @ 30 Hz.
DVI Secure KVM Switch series offers up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors / computers with ATEN DVI-to-HDMI KVM cables.
2. Remote Port Selector is not supplied in the package and requires a separate purchase.
3. Only analog speaker data input is supported.

Specifications

	CS1182DP4C	CS1184DP4C	CS1188DP4C	CS1142DP4C	CS1144DP4C	CS1148DP4C
Ports	2	4	8	2	4	8
PC Video Connector	DisplayPort					
Console Video Connector	DisplayPort					
Number of Displays	Single display			Dual display		
Video	Max. 3840 x 2160 @ 30Hz (UHD)					
Console Keyboard / Mouse Interface	USB					
CAC Port	Yes					
Audio	analog speaker only					
Remort Selector Port	Yes					
Keyboard / Mouse Emulation	USB					
I/P Rating	100~240V~ ; 50-60 Hz; 1A					
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

	CS1182DP4	CS1184DP4	CS1188DP4	CS1142DP4	CS1144DP4	CS1148DP4
Ports	2	4	8	2	4	8
PC Video Connector	DisplayPort					
Console Video Connector	DisplayPort					
Number of Displays	Single display			Dual display		
Video	Max. 3840 x 2160 @ 30Hz (UHD)					
Console Keyboard / Mouse Interface	USB					
CAC Port	N/A					
Audio	analog speaker only					
Remort Selector Port	Yes					
Keyboard / Mouse Emulation	USB					
I/P Rating	100–240V~ ; 50-60 Hz; 1A					
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

	CS1182H4C	CS1184H4C	CS1142H4C	CS1144H4C
Ports	2	4	2	4
PC Video Connector	HDMI			
Console Video Connector	HDMI			
Number of Displays	Single display		Dual display	
Video	Max. 3840 x 2160 @ 60Hz (UHD); 1920 x 1080 (FHD)			
Console Keyboard / Mouse Interface	USB			
CAC Port	Yes			
Audio	analog speaker only			
Remort Selector Port	Yes			
Keyboard / Mouse Emulation	USB			
I/P Rating	100~240V~ ; 50-60 Hz; 1A			
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Carton Lot	3 pcs			
Included Accessories	1x Power Cord			

	CS1182H4	CS1184H4	CS1142H4	CS1144H4
Ports	2	4	2	4
PC Video Connector	HDMI			
Console Video Connector	HDMI			
Number of Displays	Single display		Dual display	
Video	Max. 3840 x 2160 @ 60Hz (UHD); 1920 x 1080 (FHD)			
Console Keyboard / Mouse Interface	USB			
CAC Port	N/A			
Audio	analog speaker only			
Remort Selector Port	Yes			
Keyboard / Mouse Emulation	USB			
I/P Rating	100–240V~ ; 50-60 Hz; 1A			
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Carton Lot	3 pcs			
Included Accessories	1x Power Cord			

	CS1182D4C	CS1184D4C	CS1188D4C	CS1142D4C	CS1144D4C	CS1148D4C
Ports	2	4	8	2	4	8
PC Video Connector	DVI					
Console Video Connector	DVI					
Number of Displays	Single display			Dual display		
Video	3840 x 2160 @ 30Hz*; DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200 DVI-A: 2048 x 1536					
Console Keyboard / Mouse Interface	USB					
CAC Port	Yes					
Audio	analog speaker only					
Remort Selector Port	Yes					
Keyboard / Mouse Emulation	USB					
I/P Rating	100–240V~ ; 50-60 Hz; 1A					
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

	CS1182D4	CS1184D4	CS1188D4	CS1142D4	CS1144D4	CS1148D4
Ports	2	4	8	2	4	8
PC Video Connector	DVI					
Console Video Connector	DVI					
Number of Displays	Single display			Dual display		
Video	3840 x 2160 @ 30Hz*; DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200 DVI-A: 2048 x 1536					
Console Keyboard / Mouse Interface	USB					
CAC Port	N/A					
Audio	analog speaker only					
Remort Selector Port	Yse					
Keyboard / Mouse Emulation	USB					
I/P Rating	100–240V~ ; 50-60 Hz; 1A					
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

Note: * DVI Secure KVM Switch series offer up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors / computers with ATEN DVI-to-HDMI KVM cables.

PSS PP v3.0 Secure KVM Switch Series



2/4/8-Port USB DVI / HDMI / DisplayPort

Single / Dual Display Secure KVM Switch Series



Front

- CS1182DP



- CS1184H



- CS1148D



Rear

- CS1182DP



- CS1184H



- CS1148D



NIAP Common Criteria Compliant

- Compliant with PSS PP v3.0 (Protection Profile for Peripheral Sharing Switch, Version 3.0) security requirements

Multi-Layered Security

- Always-on chassis intrusion detection – renders the ATEN PSS PP v3.0 Secure KVM Switch series inoperable when physical tampering is detected
- Tamper-evident labels – provides visual indication of any attempt to access the ATEN PSS PP v3.0 Secure KVM Switch's internal components
- Non-reprogrammable firmware – prevents reprogramming the ATEN PSS PP v3.0 Secure KVM Switch's firmware
- Restricted peripheral connectivity – non-authorized HIDs (Human Interface Devices), video, or authentication device connections are rejected

Data Channel Isolation and Unidirectional Data Flow

- True data path isolation – data cannot be transferred between computers
- The ATEN PSS PP v3.0 Secure KVM Switch controls and isolates data flow between the console devices and connected computers
- Unidirectional data flow between console devices and the selected computer is ensured

User Data Protection

- The ATEN PSS PP v3.0 Secure KVM Switch's keyboard/mouse data is automatically deleted after transmission and automatically purged when the KVM port focus is switched

Security Management

- Supports administrative configuration of CAC Port filtering to accept or reject specific USB authentication devices
- Provides administrative functions for authorized administrator to audit KVM log data

Features

- Superior video quality – up to 4K (3840 x 2160 @ 30Hz)¹
- Port selection via pushbuttons only to enhance security
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes resolutions when switching among different sources
- Supports enable/disable CAC function by port
- LED indicators for peripheral filtering and KVM security status
- Rugged metal enclosure
- Built-in internal power
- Supports analog audio (speaker only)²

Note: 1. HDMI and DisplayPort Secure KVM Switch series support console video output resolutions up to 3840 x 2160 @ 30 Hz. DVI Secure KVM Switch series offers up to 3840 x 2160 @ 30 Hz video output on compatible HDMI-interfaced monitors / computers with ATEN DVI-to-HDMI KVM cables.

2. Only analog speaker data input is supported.

Specifications

	CS1182DP	CS1184DP	CS1188DP	CS1142DP	CS1144DP	CS1148DP
Ports	2	4	8	2	4	8
PC Video Connector	DisplayPort					
Console Video Connector	HDMI					
Number of Displays	Single display			Dual display		
Video	Max. 3840 x 2160 @ 30Hz (UHD)					
Console Keyboard / Mouse Interface	PS/2, USB					
CAC Port	Yes					
Audio	analog speaker only					
Keyboard / Mouse Emulation	USB					
I/P Rating	100–240V AC; 50-60Hz; 1A					
Power Consumption	AC110V: 3.8W; AC220V: 3.8W	AC110V: 5W; AC220V: 4.7W	AC110V: 9.7W; AC220V: 9.7W	AC110V: 5.5W; AC220V: 5.3W	AC110V: 8.2W; AC220V: 8W	AC110V: 15.8W; AC220V: 15.3W
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Weight	1.76 kg (3.88 lb)	1.81 kg (3.99 lb)	3.30 kg (7.27 lb)	2.13 kg (4.69 lb)	2.18 kg (4.8 lb)	3.22 kg (7.09 lb)
Dimensions (L x W x H)	33.50 x 16.43 x 4.40 cm (13.19 x 6.47 x 1.73 in.)	33.50 x 16.43 x 4.40 cm (13.19 x 6.47 x 1.73 in.)	43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)	43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.)
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

	CS1182H	CS1184H	CS1188H	CS1142H	CS1144H	CS1148H
Ports	2	4	8	2	4	8
PC Video Connector	HDMI					
Console Video Connector	HDMI					
Number of Displays	Single Display			Dual Display		
Video	Max. 3840 x 2160 @ 30Hz (UHD); 1920 x 1080 (FHD)					
Console Keyboard / Mouse Interface	PS/2, USB					
CAC Port	Yes					
Audio	analog speaker only					
Keyboard / Mouse Emulation	USB					
I/P Rating	100–240V AC; 50-60Hz; 1A					
Power Consumption	AC110V: 2.8W; AC220V: 2.4W	AC110V: 3W; AC220V: 3.1W	AC110V: 5.7W; AC220V: 5.7W	AC110V: 4.5W; AC220V: 4.2W	AC110V: 3.9W; AC220V: 3.6W	AC110V: 6.1W; AC220V: 5.9W
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Weight	1.76 kg (3.88 lb)	1.76 kg (3.88 lb)	3.30 kg (7.27 lb)	2.06 kg (4.54 lb)	2.11 kg (4.65 lb)	3.21 kg (7.07 lb)
Dimensions (L x W x H)	33.50 x 16.39 x 4.40 cm (13.19 x 6.45 x 1.73 in.)	33.50 x 16.43 x 4.40 cm (13.19 x 6.47 x 1.73 in.)	43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)	43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.)
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

	CS1182D	CS1184D	CS1188D	CS1142D	CS1144D	CS1148D
Ports	2	4	8	2	4	8
PC Video Connector	DVI					
Console Video Connector	DVI					
Number of Displays	Single Display			Dual Display		
Video	3840 x 2160 @ 30 Hz*; DVI Dual Link: 2560 x 1600; DVI Single Link: 1920 x 1200; DVI-A: 2048 x 1536					
Console Keyboard / Mouse Interface	PS/2, USB					
CAC Port	Yes					
Audio	analog speaker only					
Keyboard / Mouse Emulation	USB					
I/P Rating	100–240V AC; 50-60Hz; 1A					
Power Consumption	AC110V: 4.4W; AC220V: 4.4W	AC110V: 5.4W; AC220V: 5.4W	AC110V: 8.3W; AC220V: 8.2W	AC110V: 5.8W; AC220V: 5.6W	AC110V: 8.2W; AC220V: 7.8W	AC110V: 17.6W; AC220V: 17.7W
Environmental						
Operating Temperature	0 – 50°C					
Storage Temperature	-20 – 60°C					
Humidity	0 – 80% RH, Non-condensing					
Physical Properties						
Housing	Metal					
Weight	1.79 kg (3.94 lb)	1.80 kg (3.96 lb)	3.35 kg (7.38 lb)	2.14 kg (4.71 lb)	2.18 kg (4.8 lb)	3.34 kg (7.36 lb)
Dimensions (L x W x H)	33.50 x 16.43 x 4.40 cm (13.19 x 6.47 x 1.73 in.)	33.50 x 16.43 x 4.40 cm (13.19 x 6.47 x 1.73 in.)	43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)	33.50 x 16.39 x 6.55 cm (13.19 x 6.45 x 2.58 in.)	43.24 x 20.49 x 6.55 cm (17.02 x 8.07 x 2.58 in.)
Carton Lot	3 pcs					
Included Accessories	1x Power Cord					

Note: * DVI Secure KVM Switch series offers up to 3840 x 2160 @ 30Hz video output on compatible HDMI-interfaced monitors/ computers with ATEN DVI-to-HDMI KVM cables.

Secure KVM Accessories

Image	Part No.	Product Name	Compatible products
	2L-7D02DHX2	1.8M USB HDMI to DVI-D Secure KVM Cable Kit	CS1188D, CS1184D, CS1182D, CS1188D4C, CS1184D4C, CS1182D4C, CS1188D4, CS1184D4, CS1182D4
	2L-7D02UDX2	1.8M USB DVI-D Dual Link Secure KVM Cable Kit	CS1188D, CS1184D, CS1182D, CS1188D4C, CS1184D4C, CS1182D4C, CS1188D4, CS1184D4, CS1182D4
	2L-7D03UDX4	3M USB DVI-D Dual Link Secure KVM Cable Kit	CS1188D, CS1184D, CS1182D, CS1188D4C, CS1184D4C, CS1182D4C, CS1188D4, CS1184D4, CS1182D4
	2L-7D02UDX3	1.8M USB DVI-D Dual Link Dual Display Secure KVM Cable Kit	CS1148D, CS1144D, CS1142D, CS1148D4C, CS1144D4C, CS1142D4C, CS1148D4, CS1144D4, CS1142D4
	2L-7D03UDX5	3M USB DVI-D Dual Link Dual Display Secure KVM Cable Kit	CS1148D, CS1144D, CS1142D, CS1148D4C, CS1144D4C, CS1142D4C, CS1148D4, CS1144D4, CS1142D4
	2L-7D02UDPX4	1.8M USB DisplayPort Secure KVM Cable Kit	CS1188DP, CS1184DP, CS1182DP, CS1188DP4C, CS1184DP4C, CS1182DP4C, CS1188DP4, CS1184DP4, CS1182DP4
	2L-7D03UHX4	3M USB HDMI Secure KVM Cable Kit	CS1188H, CS1184H, CS1182H, CS1184H4C, CS1182H4C, CS1184H4, CS1182H4
	2L-7D02UHX5	1.8M USB HDMI Dual Display Secure KVM Cable Kit	CS1148H, CS1144H, CS1142H, CS1144H4C, CS1142H4C, CS1144H4, CS1142H4
	2L-7D03UHX5	3M USB HDMI Dual Display Secure KVM Cable Kit	CS1148H, CS1144H, CS1142H, CS1144H4C, CS1142H4C, CS1144H4, CS1142H4

Image	Part No.	Product Name	Compatible products
	2L-7D02UDPX4	1.8M USB DisplayPort Secure KVM Cable Kit	CS1188DP, CS1184DP, CS1182DP, CS1188DP4C, CS1184DP4C, CS1182DP4C, CS1188DP4, CS1184DP4, CS1182DP4
	2L-7D03UDPX4	3M USB DisplayPort Secure KVM Cable Kit	CS1188DP, CS1184DP, CS1182DP, CS1188DP4C, CS1184DP4C, CS1182DP4C, CS1188DP4, CS1184DP4, CS1182DP4
	2L-7D02UDPX5	1.8M USB DisplayPort Dual Display Secure KVM Cable Kit	CS1148DP, CS1144DP, CS1142DP, CS1148DP4C, CS1144DP4C, CS1142DP4C, CS1148DP4, CS1144DP4, CS1142DP4
	2L-7D03UDPX5	3M USB DisplayPort Dual Display Secure KVM Cable Kit	CS1148DP, CS1144DP, CS1142DP, CS1148DP4C, CS1144DP4C, CS1142DP4C, CS1148DP4, CS1144DP4, CS1142DP4
	2X-045G	2/4-Port Single Display Secure KVM Rack Mount Kit	CS1182DP, CS1184DP, CS1182H, CS1184H, CS1182D, CS1184D, CS1182DP4C, CS1184DP4C, CS1182H4C, CS1184H4C, CS1182D4C, CS1184D4C, CS1182DP4, CS1184DP4, CS1182H4, CS1184H4, CS1182D4, CS1184D4
	2X-046G	2/4-Port Dual Display Secure KVM Rack Mount Kit	CS1142DP, CS1144DP, CS1142H, CS1144H, CS1142D, CS1144D, CS1142DP4C, CS1144DP4C, CS1142H4C, CS1144H4C, CS1142D4C, CS1144D4C, CS1142DP4, CS1144DP4, CS1142H4, CS1144H4, CS1142D4, CS1144D4
	2X-047G	8-Port Single/Dual Display Secure KVM Rack Mount Kit	CS1188DP, CS1148DP, CS1188H, CS1148H, CS1188D, CS1148D, CS1188DP4C, CS1148DP4C, CS1188D4C, CS1148D4C, CS1188DP4, CS1148DP4, CS1188D4, CS1148D4
	2XRT-0019G	ATEN PP4.0 Secure KVM Remote Port Selector	CS1188D4C, CS1184D4C, CS1182D4C, CS1188D4, CS1184D4, CS1182D4, CS1148D4C, CS1144D4C, CS1142D4C, CS1148D4, CS1144D4, CS1142D4, CS1184H4C, CS1182H4C, CS1184H4, CS1182H4, CS1144H4C, CS1142H4C, CS1144H4, CS1142H4, CS1188DP4C, CS1184DP4C, CS1182DP4C, CS1188DP4, CS1184DP4, CS1182DP4, CS1148DP4C, CS1144DP4C, CS1142DP4C, CS1148DP4, CS1144DP4, CS1142DP4

Serial Console Servers

SN0108CO / SN0116CO / SN0132CO / SN0148CO

SN9108CO / SN9116CO

14

Serial Console Servers

ATEN Serial Console Server products are control units that provide both in-band and out-of-band (OOB) remote serial access to up to 48 serial devices (network switches, routers, servers, power management devices, and more) via a Telnet or SSH connection. With dual power / LAN models, they integrate cutting edge technologies to provide convenient installation, secure serial device access, easy management and comprehensive control for data centers.

The Serial Console Server's support for OOB management provides the means to access the console port of a network switch while its Ethernet management port is down, providing remote serial access and modem access to critical infrastructure outside of the production network. Models in the Serial Console Server series also provide military-grade encrypted connections while accessing devices remotely and fully support AD, LDAP, RADIUS, and more, for centralized authentication and authorization. They also support tight privilege controls for multiple users, concurrent sessions and port-level permissions.



No Rollover Cables Needed

ATEN Serial Console Servers with Cisco pinouts and auto-sensing DTE/DCE feature support a direct connection to Cisco network switches (and other compatible devices) without the need for rollover cables for even more convenient IT infrastructure deployment.

Serial Device Online Detection

The serial console server supports online detection of connected serial devices, including terminal blocks for device status monitoring to ensure that the connected devices are always running. A notification email alert will be sent to the administrator when connected devices are offline.

Virtual Port Management

ATEN Serial Console Server products offer Real COM Port support. Devices connected to this type of virtual port appear as if they were directly connected to a COM port on the local computer. Data transmission between the device and the local computer takes place over the virtual COM port to the Serial Console Server device. This mode is especially convenient for use with POS terminals, barcode readers, serial printers, etc.

Simultaneous Control

Multiple users can log in at the same time via a TCP/IP connection from any computer connected to the Internet. Since the first 8/16/32/48 users are able to control separate ports, all attached devices (up to 8/16/32/48) can be accessed concurrently. The other concurrent login users may view the port's video output.

Alert Settings Support

Serial Console Server products can inform you via email about problems that have occurred on the devices that are connected to them. Up to 10 keywords or phrases for each port can be emailed to you. For example, when a device encounters a problem – such as a critical error that requires a reboot – a debug message is sent through its COM port. When the Serial Console Server device receives the message, it sends an email to inform the user.

Multiple Communication Modes

The Serial Console Server supports a wide variety of serial communication modes, such as Real COM, TCP Server, TCP Client, UDP, and Serial Tunnel – offering versatile and diversified serial data access methods to meet a broad range of application requirements.

System Access Availability

The serial console servers offer various access methods such as direct console connection from a local computer, USB console connection from a laptop, PSTN connection via modem, or hybrid network connection via the dual LAN ports (one connected to the production network and the other connected to the management network).

Advanced Security Features

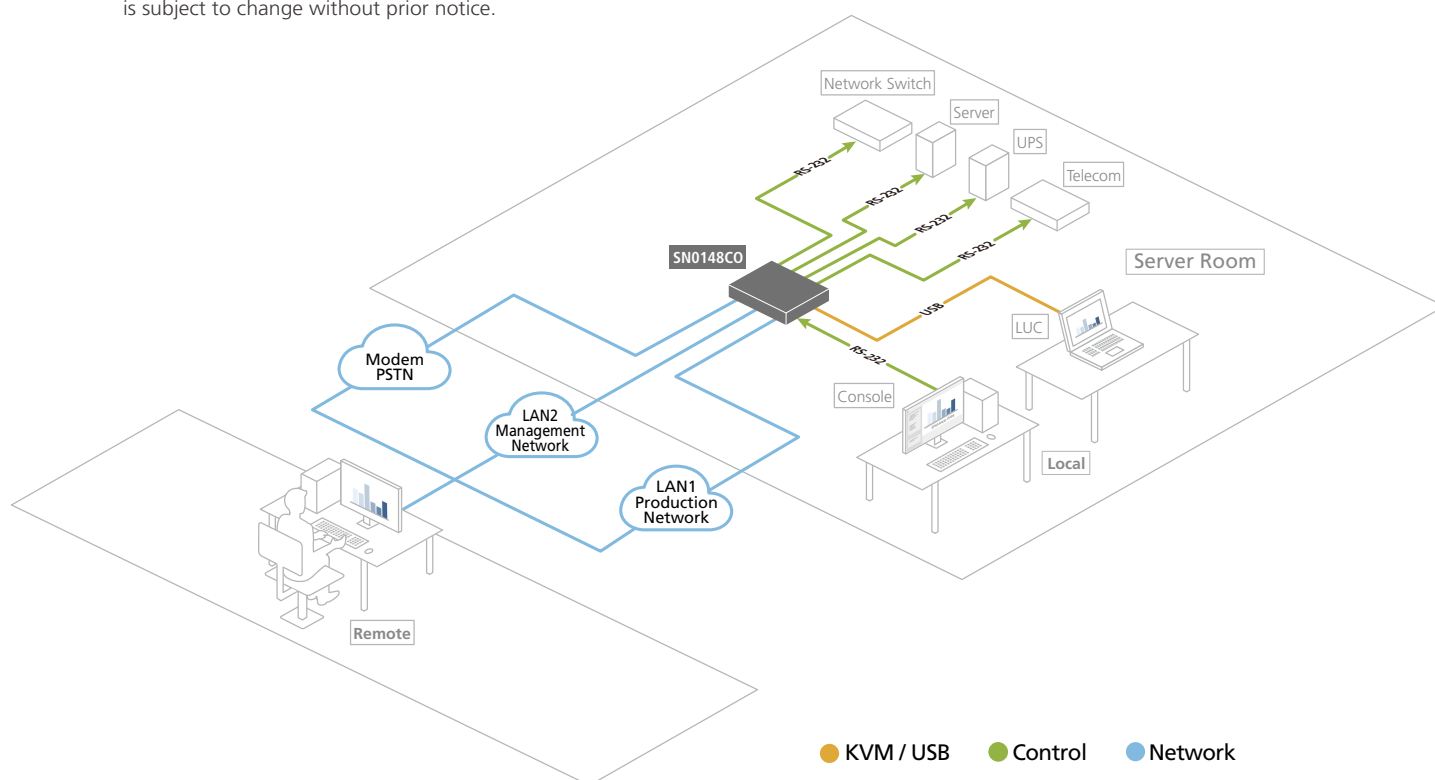
Serial Console Server devices are equipped with internal and external user authentication methods and port specific access rights. The administrator may set different port access rights to specific users on a port-by-port basis, allowing for customized security. Each port can be accessed individually by up to eight or sixteen users. Login security is port-specific and supports secure multi-user and multi-level login.

ANMS and Centralized Management

ANMS (Authentication Network Management Service) supports login authorization management from external sources, including RADIUS, LDAP(s), TACACS+, Kerberos, and AD settings. The serial console server also integrates into CC2000 and CCVSR software for centralized data center management and user session recording.

Note:

The features highlighted above are not available on all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Comparison

Model		SN0108CO / SN0116CO SN0132CO / SN0148CO	SN9108CO / SN9116CO
Device Connection		8 / 16 32 / 48	8 / 16
Concurrent Access		8 / 16 32 / 48	8 / 16
Device	Interface	Serial (RS-232)	Serial (RS-232)
	Connector	RJ-45	RJ-45
Remote Access		•	•
Support Straight-through cable with Cisco Network Switches		•	•
LAN Connection		RJ-45	RJ-45
Out of Band Configuration		•	•
Power		AC / DC*	AC
Communication Modes		Console management, Console management Direct, Real COM, TCP Server, TCP Client, UDP, Serial Tunnel, and Virtual Modem	

Note: *DC power is available for the SN0108COD / SN0116COD / SN0132COD / SN0148COD models upon request.

SN0108CO / SN0116CO / SN0132CO / SN0148CO

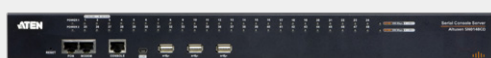
8/16/32/48-Port Serial Console Server with Dual Power / LAN



SN0148CO



Front



Rear



Highlights

- Secure in-band and out-of-band network access to serial consoles
- Supports a direct connection to Cisco network switches without rollover cables for more convenient deployment
- Online/Offline detection of connected serial devices for device status monitoring
- Convenient and simple access via browser or Telnet / SSH client
- Comprehensive logging and event notification
- Integrates with CC2000 for centralized data center management
- Extra Laptop USB Console (LUC) port and USB ports for USB storage and USB-based PC cards
- FIPS 140-2 compliant cryptography
- Dual Ethernet ports for failover or for dual IP addresses access
- Dual power supply for power redundancy

System Accessibility and Availability

- Secure in-band and out-of-band remote serial console access
- Browser access with an intuitive GUI
- Terminal-based access with a menu-driven UI
- Modem dial-in / dial-back / dial-out access
- Front USB ports for storage or USB-based PC cards
- Laptop USB Console (LUC) port for local console access via laptop
- Dual Ethernet ports allow fail control or dual IP address access
- Dual power supply

Serial Console Management

- Auto-sensing DTE/DCE feature supports a direct connection to Cisco network switches (and other compatible devices) without rollover cables for more convenient IT infrastructure deployment
- Online/Offline detection of connected serial devices (including terminal blocks) – automatically send event notifications when the devices are offline (e.g. power failure) for device status monitoring
- Response Check – checks the system status of the connected serial devices, and sends a notification if the check fails (e.g. system crash)
- Convenient and simple serial device access via selectable Telnet/SSH and third-party clients such as PuTTY
- Easy port access via selectable ActiveX or Java serial viewer
- Comprehensive viewer functions – copy/paste, logging, data import, macros, broadcasting and message board
- Sun Solaris ready – Sun “break-safe”
- Alert Strings – whenever one of the pre-defined strings matches the message sent from the serial devices, you will be informed by serial console server via SNMP Trap alert and/or an email
- Command filter – administrators can restrict users to execute only pre-defined commands
- Multiple users can simultaneously access the same port – up to 16 connections per port
- Modes for simultaneous access – Exclusive/Occupy/Share
- Integrates with ATEN PDU products for power management of each port

Security

- Supports secure login from browsers with TLS 1.2 data encryption and RSA 2048-bit certificates
- Configurable user permissions for port access and control
- Local and remote authentication and login
- Third-party authentication via RADIUS, TACACS+, LDAP/AD and Kerberos
- IP and MAC address filter for enhanced security protection
- High-Grade Security – supports FIPS 140-2 level 1 security standards that use an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1747, #2398, #2473)
- Supports security level configuration – High, Medium-high, Medium or Custom, to ensure a fine granularity of network access control

System Management

- System configuration via web browser, Telnet/SSH client and local console
- System log and event login
- System logs can be saved to internal memory, Log server, Syslog server, and USB drive
- Port logs can be saved to internal memory, NFS, Syslog server, or USB drive
- SNMP Trap supports SNMP v1/v2c.
- SNMP Agent supports SNMP v1/v2c/v3
- Event notification – supports notification of SMTP email, SNMP Trap, and SMS (with additional mobile devices)
- Backup / Restore system configuration and upgradeable firmware
- Multi-browser support – Internet Explorer, Chrome, Firefox
- NTP for time server synchronization
- IPv4 / IPv6 support
- Integrates into CC2000 software for centralized data center management
- Integrates into CCVSR software for user session recording

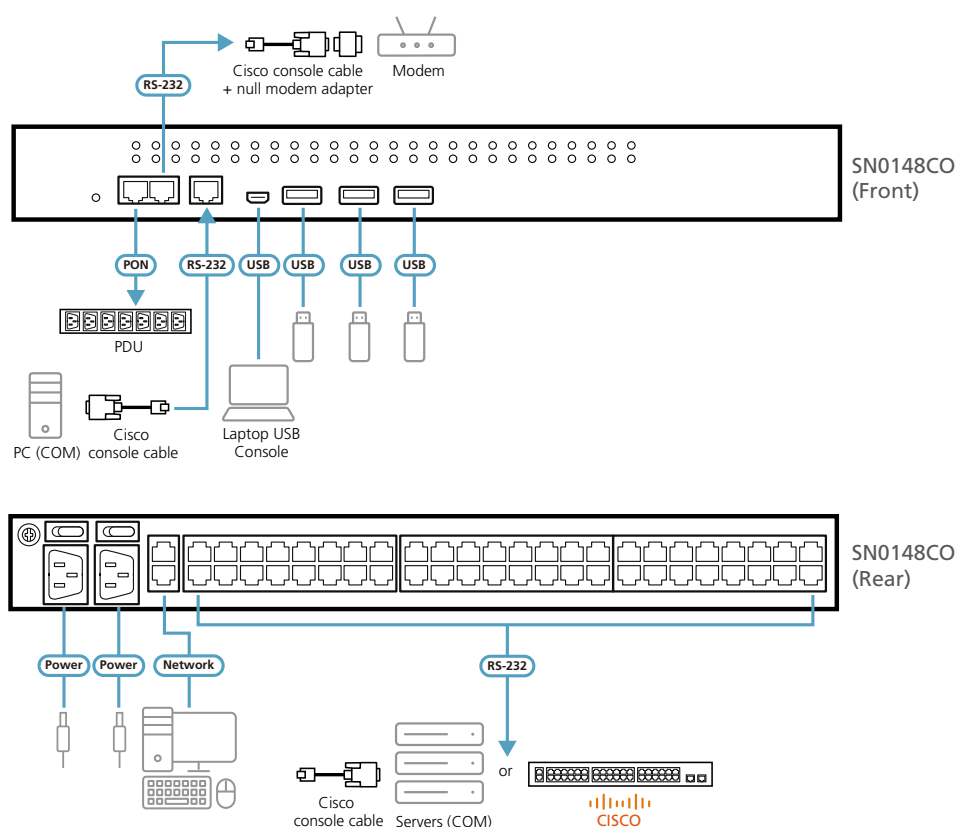
Serial Device Management

- Versatile serial operating modes – Console Management, Console Management Direct, Real COM Port, TCP Server/Client, UDP Server/Client, and Virtual Modem
- Real COM driver for Windows 2000 or higher and Windows Server 2003/2008
- Real TTY driver for Linux
- Fixed TTY driver for UNIX*
- Supports baud rates of 300, 600, 1200, 1800, 2400, 4800, 9600, 19200, 28800, 38400, 57600, 115200, 230400 bps

Note:

*Fixed TTY Driver Supports 1) OpenServer (Sco Unix); 2) UnixWare 7, SVR 5; 3) UnixWare 2.1, SVR 4.2; 4) QNX 4.25, QNX 6; 5) FreeBSD; 6) Solaris 10; 7) AIX 5.x; 8) HP-UX 11i

Setup >



Specifications

	SN0108CO	SN0116CO	SN0132CO	SN0148CO
Connection	8	16	32	48
Connectors				
Serial	8 x RJ-45 Female	16 x RJ-45 Female	32 x RJ-45 Female	48 x RJ-45 Female
LAN Ports	2 x RJ-45 Female			
Power	2 x IEC 60320/C14*			
Local Console	1 x RJ-45 Female			
Modem	1 x RJ-45 Female			
PON	1 x RJ-45 Female			
Laptop USB Console (LUC) Port	1 x Mini USB			
USB Port	3 x USB Type A Female			
LEDs				
Serial	8 (Green)	16 (Green)	32 (Green)	48 (Green)
10/100/1000 Mbps	2 (Red / Orange / Green)			
Power	2 (Blue)			
Maximum Input Power Rating	100-240V~, 1A, 50/60Hz		100-240V~, 1.8A, 50/60Hz	
Power Consumption	AC110V: 14.1W; AC220V: 14.0W	AC110V: 15.4W; AC220V: 14.9W	AC110V: 20.2W; AC220V: 21W	AC110V: 25.8W; AC220V: 26.2W:
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	4.45 kg (9.8 lb)	4.48 kg (9.87 lb)	4.84 kg (10.66 lb)	4.92 kg (10.84 lb)
Dimensions (L x W x H)	43.72 x 32.98 x 4.40 cm (17.21 x 12.98 x 1.73 in.)		43.84 x 32.77 x 4.40 cm (17.26 x 12.9 x 1.73 in.)	
Carton Lot	1 pc			

Note:

*DC power is available for the SN0108COD / SN0116COD / SN0132COD / SN0148COD models upon request.

Included Accessories

	SN0108CO / SN0116CO	SN0132CO / SN0148CO
Power Cords	2	2
Laptop USB Console Cable	•	•
Mounting Kit	•	•
Lok - U - Plugs	2	N/A
Lok - U - Plug Installation Tool	•	N/A
Foot Pad Set (4 pcs)	•	•

SN9108CO / SN9116CO

8/16-Port Serial Console Server with Single Power / LAN



SN9116CO



Front



Rear



Highlights

- Secure in-band and out-of-band network access to serial consoles
- Supports a direct connection to Cisco network switches without rollover cables for more convenient deployment
- Online/Offline detection of connected serial devices for device status monitoring
- Convenient and simple access via browser or Telnet / SSH client
- Comprehensive logging and event notification
- Integrates with CC2000 for centralized data center management

System Accessibility and Availability

- Secure in-band and out-of-band remote serial console access
- Browser access with an intuitive GUI
- Terminal-based access with a menu-driven UI
- Modem dial-in / dial-back / dial-out access

Serial Console Management

- Auto-sensing DTE/DCE feature supports a direct connection to Cisco network switches (and other compatible devices) without rollover cables for more convenient IT infrastructure deployment
- Online/Offline detection of connected serial devices (including terminal blocks) – automatically send event notifications when the devices are offline (e.g. power failure) for device status monitoring
- Response Check – checks the system status of the connected serial devices, and sends a notification if the check fails (e.g. system crash)
- Convenient and simple serial device access via selectable Telnet/SSH and third-party clients such as PuTTY
- Easy port access via selectable ActiveX or Java serial viewer
- Comprehensive viewer functions – copy/paste, logging, data import, macros, broadcasting and message board
- Sun Solaris ready – Sun “break-safe”
- Alert Strings – whenever one of the pre-defined strings matches the message sent from the serial devices, you will be informed by serial console server via SNMP Trap alert and/or an email
- Command filter – administrators can restrict users to execute only pre-defined commands
- Multiple users can simultaneously access the same port – up to 16 connections per port
- Modes for simultaneous access – Exclusive/Occupy/Share

Security

- Supports secure login from browsers with TLS 1.2 data encryption and RSA 2048-bit certificates
- Configurable user permissions for port access and control
- Local and remote authentication and login
- Third-party authentication via RADIUS, TACACS+, LDAP/AD and Kerberos
- IP and MAC address filter for enhanced security protection
- High-Grade Security – supports FIPS 140-2 level 1 security standards that use an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1747, #2398, #2473)
- Supports security level configuration – High, Medium-high, Medium or Custom, to ensure a fine granularity of network access control

System Management

- System configuration via web browser, Telnet/SSH client and local console
- System log and event login
- System logs can be saved to internal memory, Log server, and Syslog server
- Port logs can be saved to internal memory, NFS, or Syslog server
- SNMP Trap supports SNMP v1/v2c.
- SNMP Agent supports SNMP v1/v2c/v3
- Event notification – supports notification of SMTP email, SNMP Trap, and SMS (with additional mobile devices)
- Backup / Restore system configuration and upgradeable firmware
- Multi-browser support – Internet Explorer, Chrome, Firefox
- NTP for time server synchronization
- IPv4 / IPv6 support
- Integrates into CC2000 software for centralized data center management
- Integrates into CCVSR software for user session recording

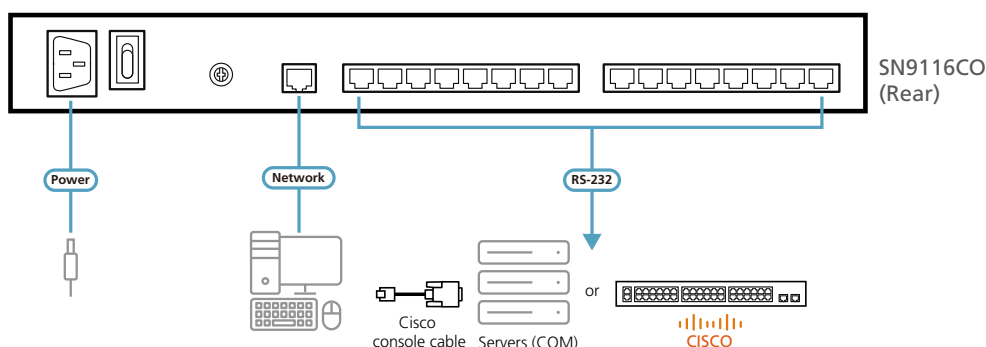
Serial Device Management

- Versatile serial operating modes – Console Management, Console Management Direct, Real COM Port, TCP Server/Client, UDP Server/Client, and Virtual Modem
- Real COM driver for Windows 2000 or higher and Windows Server 2003/2008
- Real TTY driver for Linux
- Fixed TTY driver for UNIX*
- Supports baud rates of 300, 600, 1200, 1800, 2400, 4800, 9600, 19200, 28800, 38400, 57600, 115200, 230400 bps

Note:

*Fixed TTY Driver Supports 1) OpenServer (Sco Unix); 2) UnixWare 7, SVR 5; 3) UnixWare 2.1, SVR 4.2; 4) QNX 4.25, QNX 6; 5) FreeBSD; 6) Solaris 10; 7) AIX 5.x; 8) HP-UX 11i

Setup >



Specifications

	SN9108CO	SN9116CO
Connection	8	16
Connectors		
Serial	8 x RJ-45 Female	16 x RJ-45 Female
LAN Ports	1 x RJ-45 Female	
Power	1 x IEC 60320/C14	
LEDs		
Serial	8 (Green)	16 (Green)
10/100/1000 Mbps	1 (Red / Orange / Green)	
Power	1 (Blue)	
Maximum Input Power Rating	100-240V~, 1A, 50/60Hz	
Power Consumption	AC110V: 9.7W; AC220V: 9.6W	AC110V: 10.9W; AC220V: 11.6W:
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	3.12 kg (6.87 lb)	3.16 kg (6.96 lb)
Dimensions (L x W x H)	43.72 x 21.76 x 4.40 cm (17.21 x 8.57 x 1.73 in.)	
Carton Lot	3 pcs	

Included Accessories

	SN9108CO / SN9116CO
Power Cord	•
Mounting Kit	•
Lok - U - Plug	•
Lok - U - Plug Installation Tool	•
Foot Pad Set (4 pcs)	•

USB Peripherals

ATEN offers a range of Thunderbolt and USB connectivity solutions to suit a wide variety of users and their applications. Our USB products give you the freedom to connect high-speed devices, such as external storage drives, optical drives, printers, and more.



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USB Peripherals

- **Content Creation**

Hardware and software that empower creators to produce high-quality, professional video content.

- **Docking Stations**

Connect your laptop to a docking station and turn it into a multitasking workstation. ATEN's range of docking stations offer USB-C to Thunderbolt 3 support and expand connectivity with USB 3.2 Gen 1, HDMI, VGA, DisplayPort, Ethernet, audio, and power delivery. With these docking stations, you can spend more time working, playing and less time worrying about setup.

- **USB Converters**

ATEN USB-to-serial and USB-to-parallel converters aid in the transition to USB by allowing devices with traditional interfaces to communicate over USB interfaces. These converters help extend the useful life of your peripheral devices, thereby protecting your investment.

- **Docking Switches**

ATEN Thunderbolt and USB dock switches allow 2 computers to share the use of USB peripherals, including all necessary connectivity through a Thunderbolt / USB Type-C connection with one simple click.

- **Sharing Switches**

ATEN USB Sharing switches allow 2 to 4 computers to share the use of USB 3.2 Gen 2 / 3.2 Gen 1 / 2.0 peripheral devices on a one-at-a-time basis.

- **USB Hubs**

ATEN offers 4 port compact USB hubs for desktop and laptop computers. These are ideal for users who need to connect multiple devices, such as keyboards, mice, printers, scanners, and flash drives.

- **USB Extenders**

USB extender cables allow you to extend the distance between your computer and USB peripheral devices by several meters. These cables correct and transmit the signals as necessary to ensure optimal signal integrity. ATEN USB Extenders support USB 2.0 to USB 3.2 Gen 1 standard. They also extend the distance between your computer and USB peripheral over 100 m.

Note: The features highlighted above are not available in all products. Please refer to each product page for more details.

Product information is subject to change without prior notice.

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Feature Comparison

Type	Model No.	Max. Video Input Resolution	Max. Video Output Resolution	Video Output Format	HDMI Loop-through	Analog Audio Input	Multiplatform Support
Content Creation	UC8000	N/A	N/A	N/A	N/A	2 x XLR Combo in, 1 x Line in, 1 x USB-C UAC in	Windows / Mac
	UC9040	3840 x 2160	1080p60	RTMP 1080p30	Yes	2 x Mic	RTMP / RTMPS
	UC9020	3840 x 2160	1080p60	RTMP 1080p30	Yes	1 x Mic, 1 x Line in	RTMP / RTMPS
	UC3020	1920 x 1080	1080p60	UVC	N/A	N/A	Windows / Mac / Android
	UC3021	3840 x 2160	1080p60	UVC	Yes	N/A	Windows / Mac / Android
	UC3022	3840 x 2160	1080p60	UVC	N/A	1 x Mic, 1 x Line in	Windows / Mac / Android

Type	Model No.	Max. Video resolution	Dual Display	Video Interface	Memory Card Slot	USB-C PD	Power Adapter	Multiplatform Support
Docking Stations	UH3233	3840 x 2160	1080p	HDMI x 2	N/A	N/A	N/A	Windows / Mac
	UH3234	3840 x 2160	1080p	DisplayPort, HDMI, VGA	•	•	N/A	Windows / Mac
	UH3235	3840 x 2160	N/A	HDMI	N/A	•	N/A	Windows / Mac / iPad Pro / Switch
	UH3237	3840 x 2160	1080p	HDMI x 2, VGA	•	•	N/A	Windows / Mac
	UH3238	3840 x 2160	N/A	HDMI	N/A	•	N/A	Windows / Mac / iPad Pro
	UH3239	3840 x 2160	N/A	HDMI	•	•	N/A	Windows / Mac / iPad Pro
	UH7230	5160 x 2880	4K	DisplayPort, Thunderbolt 3	N/A	•	•	Windows / Mac

Type	Model No.	Host	Upstream	Port	Downstream	Power Mode
USB Converters	UC1284B	N/A	USB 2.0	N/A	C-36 Parallel	Bus-powered
	UC2322	1	USB 2.0	2	RS-232 (DB9)	• (Optional)
	UC2324	1	USB 2.0	4	RS-232 (DB9)	• (Optional)
	UC4852	1	USB 2.0	2	RS-485 (DB9)	• (Optional)
	UC4854	1	USB 2.0	4	RS-485 (DB9)	• (Optional)
	UC3238	1	USB-C 3.2 Gen 1	1	HDMI	Bus-powered
	UC3008A1	1	USB-C 3.2 Gen 1	1	HDMI	Bus-powered
	UC3002A	1	USB-C 3.2 Gen 1	1	VGA	Bus-powered
	UC232B	1	USB 2.0	1	RS-232 (RJ-45)	Bus-powered
	UC232A / UC232A1	1	USB 2.0	1	RS-232 (DB9)	Bus-powered
	UC485	1	USB 2.0	1	RS-485 (DB9 / Terminal Block)	Bus-powered
Docking Switches	US3310	2	USB-C 3.2 Gen 1	3	HDMI, USB 3.2 Gen 1 Type-A	• (Optional)

Type	Model No.	Host	Upstream	Port	Downstream	Power Mode
Sharing Switches	US3342	2	USB-C 3.2 Gen 2	4	USB-C 3.2 Gen 2	• (Optional)
	US3324* / US234	2	USB 3.2 Gen 1	4	USB 3.2 Gen 1 Type-A	• (Optional)
	US3344* / US434	4	USB 3.2 Gen 1	4	USB 3.2 Gen 1 Type-A	• (Optional)
	US3344I	4	USB 3.2 Gen 1	4	USB 3.2 Gen 1 Type-A	Bus-powered
	US224	2	USB 2.0	4	USB 2.0 Type-A	• (Optional)
	US424	4	USB 2.0	4	USB 2.0 Type-A	• (Optional)
	US221A	2	USB 2.0	1	USB 2.0 Type-A	Bus-powered
	US421A	4	USB 2.0	1	USB 2.0 Type-A	Bus-powered
USB Hubs	UH275	1	USB 2.0	4	USB 2.0 Type-A	• (Optional)
	UH284	1	USB 2.0	4	USB 2.0 Type-A	• (Optional)

* Additional USB 3.2 Gen 1 Type-B to Type-C cable included in the US3324 / US3344 package.

Type	Model No.	Distance	Ports	Protocol	Additional Feature	Power Mode
USB Extenders	UE350A	5 m	1	USB 3.2 Gen 1	N/A	Self-Powered
	UE3310	10 m	1	USB 3.2 Gen 1	Cable Lock	Self-Powered
	UE3315A	15 m	1	USB 3.2 Gen 1	Cable Lock	Self-Powered
	UE250	5 m	1	USB 2.0	N/A	Self-Powered
	UE2120	12 m	1	USB 2.0	Cable Lock	• (Optional)
	UE2120H	12 m	4	USB 2.0	Hub	• (Optional)
	UCE3250	50 m	4	USB 2.0	Hub	Self-Powered
	UCE60	60 m	1	USB 2.0	N/A	• (Optional)
	UCE260	60 m	1	USB 2.0	N/A	Self-Powered
	UCE32100	100 m	4	USB 2.0	N/A	• (Optional)
	UEH4002A	100 m	4	USB 2.0	Hub	Self-Powered
	UEH4102	>100 m	4	USB 2.0	Hub	Self-Powered

Content Creation



15

USB Peripherals

ATEN provides hardware and software that allows the highest quality video to be simple and affordable to every content creator, so that post production and livestreaming can become truly creative.

- **All-in-one AV Mixer**

The powerful all-in-one AV mixer integrates a 1080p video capture, video switch, stream broadcaster, video converter, video splitter, and audio mixer, while the accompanying innovative app enables creators to capture, stream, and switch between video inputs over the internet and instantly take the video production and livestreaming to next level.

- **Video Capture**

ATEN HDMI UVC Video Capture devices allow you to send unencrypted HDMI video to your USB-C or Thunderbolt 3 laptop for video editing or livestreaming with various popular third-party video-editing software/platforms. It's compliant with the latest USB 3.2 Type-C specification and designed to plug & play.

- **Control App**

The ATEN control app turns an iPad into a touch interface for controlling, preview monitoring, real-time editing, and program mixing, and combines with an AV mixer to create an easy-to-use solution for creating pro-level livestreaming content.

- **AI Audio Mixer**

The world's first AI-powered audio mixer as it adopts machine-learning techniques to deliver localization, acoustic detection, and acoustic fingerprinting to optimize the voice recording experience.

Pro-level Live Productions for Different Applications



Churches



Education



Live Events



Meetings and
Presentations



Podcasts

MicLIVE™ 6-CH (UC8000)

Podcast AI Audio Mixer



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USB Peripherals



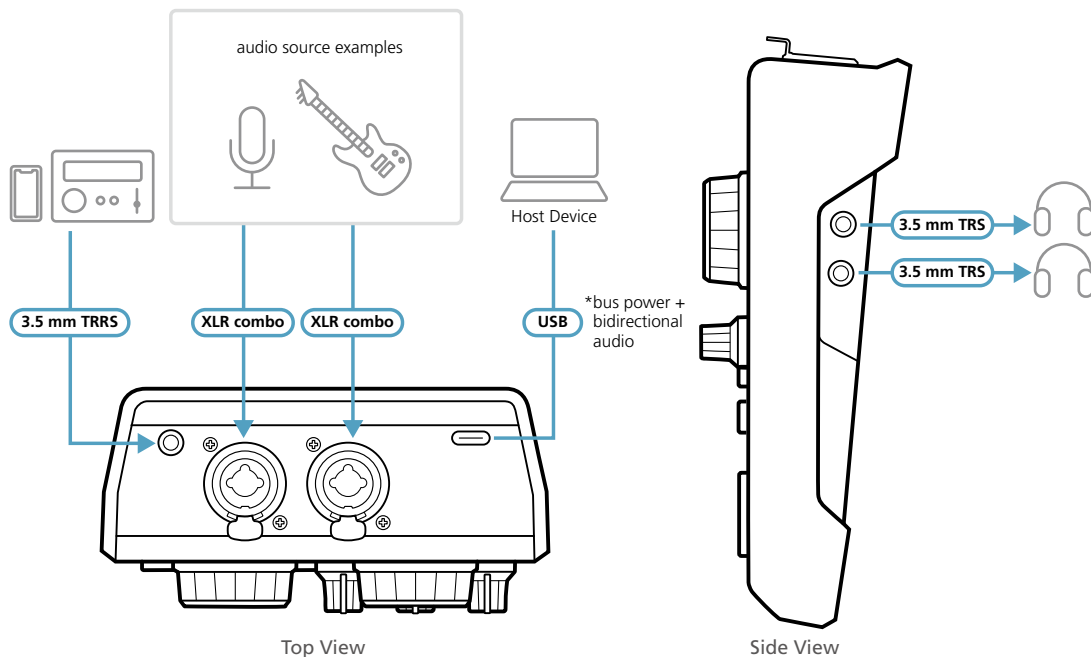
Rear



Features

- All-in-one design simplifies audio mixing workflow for podcasting – offers up to 6-channel audio inputs, DSP and AD / DA converter, and adds audio up to 24-bit / 96 kHz to any USB-C-enabled laptop or tablet
- The industry's first AI-optimized audio mixer – enhances microphone audio quality with enhanced acoustic models, SmartEQ, so anyone can have a real-time, high-quality recording
- Jingle pads save up to 8 sound effects that can be customized from audio sources from a computer, microphone, and other audio inputs for a professional radio programming experience
- Contains 24 Voice FX programs, including 6 adjustments in reverb mode, 6 in pitch mode, and 12 in gender mode
- The auto ducking function lowers background music anytime one speaks, ensuring the speaker's voice is always heard, loud and clear, during broadcasting
- Diversified input interface options – supports audio media from professional XLR combo microphones, musical instruments, USB audio sources, and phone-in for mixing
- Built-in preamp that provides gain for instruments and the microphone's signal, and a phantom power supply that delivers reliable +48V phantom power for condenser microphones
- Intuitive OnAir Audio software gives users complete control over every parameter while allowing them to simply assign audio from their computers, as well as edit audio and customize sound effects through an intuitive interface

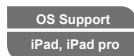
Setup > UC8000



Specifications

MicLIVE™ 6-CH (UC8000)	
Audio Inputs	
Interfaces	XLR Combo: 2 x XLR-3-31(1:GND, 2:HOT, 3:COLD) or 6.3mm (1/4") standard TRS stereo jack (T:HOT (L) R: COLD (R), R:GND) Line-in: via 1/8" 4-pole TRRS phone female (T:HOT (L) R: COLD (R), R:GND, S: MIC. CTIA standard) USB Audio-in: via USB Type-C
Audio Outputs	
Interfaces	Line-out: via 1/8" 4-pole TRRS phone female (T:HOT (L) R: COLD (R), R:GND, S: MIC. CTIA standard) Headphone Monitoring: 2 x 1/8" TRS phone female (for headset) USB Audio-out: via USB Type-C 24-bit / 96 kHz
Audio Sampling	
Connection	1x USB Type-C female, USB bus-powered
Microphone Inputs	
Frequency Response	20 Hz - 20 kHz
Dynamic Range	90 dB
THD+N	82 dB
Maximum Input Level	12.5 mVrms
Gain Range	40 dB (for Dynamic Microphone), 30 dB (for Condenser Microphone)
Impedance	3 K Ω (Typ)
Phantom power	+48 VDC
Instrument Inputs	
Frequency Response	20 Hz - 20 kHz
Dynamic Range	82 dB
THD+N	80 dB
Maximum Input Level	440 mVrms
Impedance	1 M Ω
Line Inputs	
Frequency Response	20 Hz - 20 kHz
Dynamic Range	95 dB
THD+N	90 dB
Maximum Input Level	1 Vrms
Impedance	2.5 K Ω (Typ)
Line Outputs	
Frequency Response	20Hz - 20 kHz
Maximum output Level	1 Vrms
Impedance	200 Ω
Headphone Outputs	
Frequency Response	20 Hz - 20 kHz
Maximum output Level	2 Vrms
Impedance	10 Ω
Digital Audio	
ADC Dynamic Range	92 dB (A-weighted)
DAC Dynamic Range	95 dB (A-weighted)
Maximum Input Level	+4 dBu
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-condensing
OS Support	System requirements for PC and Mac: <ul style="list-style-type: none"> Intel i3-series 2 GHz multicore processor (or AMD , Apple M1 equivalent) or faster 2 GB RAM (8 GB or more recommended) USB-C interface with USB 3.0 or higher compatibility Windows 10 or higher, macOS 10.11 or higher System requirements for iPads: <ul style="list-style-type: none"> iPad Pro (3rd gen or later) • iPad Air (4th gen or later) • iPad Mini (6th gen or later) with USB-C interface iPad Pro (1st and 2nd gen) • iPad (5th gen or later) • iPad Air (3rd gen) iPad Mini (5th gen) with Phone Jack or adapter OnAir Audio Software: <ul style="list-style-type: none"> Windows 10 or higher (64-bit only)
Power Consumption	DC5V:2.55W:12BTU
Physical Properties	
Housing	Plastic
Weight	0.42 kg
Dimensions (L x W x H)	13.05 x 18.09 x 6.27 cm
Carton Lot	5 pcs
Included Accessories	1x USB-C Cable

StreamLIVE™ PRO (UC9040) StreamLIVE™ HD (UC9020) Multi-Channel AV Mixer



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USB Peripherals

- UC9040



- UC9020



Rear

- UC9040



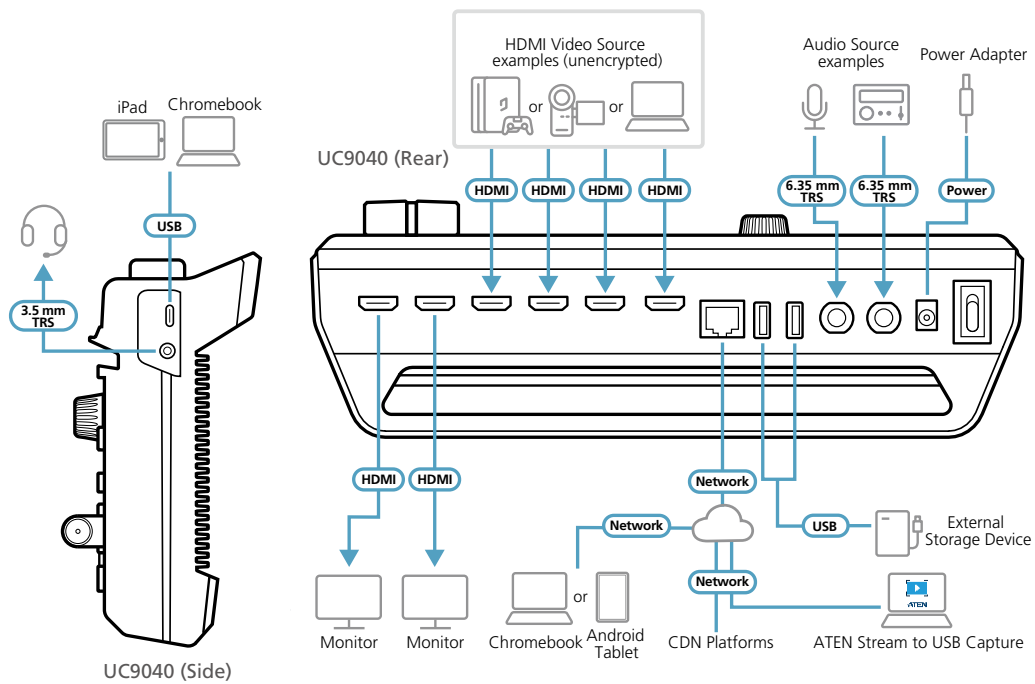
- UC9020



Features

- All-in-one design to simplify streaming workflow – integrates 1080p video capture, video recorder, video switch, streaming encoder, video converter, video splitter, and audio mixer
- Professional-quality live streaming everywhere – compatible with every major platform and can livestream to two platforms at the same time from virtually anywhere
- 1080p recording – features a media recording that can be used to record a program and save recordings directly to a connected external hard drive via USB
- Compact mixer control panel – switches & mixes between multiple video & audio sources with the help of easily identifiable luminous keys
- Intuitive and powerful app – presets up to 8 scenes with custom video layout, preview and full screen program monitoring, real-time editing, transitions in stunning DVE (UC9040), PbP or PiP visual effects, and graphic and text overlays for a professional finish
- DVE (Digital Video Effect) Video Transitions (UC9040) – Including circle drop, window slice, polka dot, circle open, fade, heart, cross hatch and random square
- Storyboard-like management – quick and smooth transitions control for professional programming during live events
- Audio Management – Multi-channel audio mixing with faders, meters, and balance for every input
- Fanless and optimized thermal air flow system for quiet operation
- Multitask designed handle-stand to enhance portability and ergonomic comfort angle
- Supports iPads / Android (UC9040) tablets with an ATEN app installed
- Works with ATEN Stream to USB Capture software – converts streams from multiple devices into USB webcam signals for delivering remote presentations on Skype, Zoom, MS Teams, OBS and more

Setup > UC9040



Livestreaming Made Easier than Ever

Streaming, switching, and recording in a compact box



*iPad not included

Specifications

	StreamLIVE™ PRO (UC9040)	StreamLIVE™ HD (UC9020)
Video Input		
Interfaces	1 x 4K HDMI Type-A Female (up to 2160p60, unencrypted) 3 x HDMI Type-A Female (up to 1080p60, switcher, unencrypted)	1 x 4K HDMI Type-A Female (up to 2160p60, unencrypted) 2 x HDMI Type-A Female (up to 1080p60, switcher, unencrypted)
Video Output		
Interfaces	1 x 4K Loop-Thru HDMI Type-A Female (up to 2160p60, unencrypted) 1 x PGM HDMI Type-A Female (up to 1080p60, unencrypted)	1 x 4K Loop-Thru HDMI Type-A Female (up to 2160p60, unencrypted) 1 x PGM HDMI Type-A Female (up to 1080p60, unencrypted)
Video Sampling	4:2:2 8-bit	
Color Space	4:2:2 YUV	
Video Resolution	HDMI 1 Input: VGA(640x480@60), 480p60/50/30/25, SVGA(800x600@60), XGA(1024x768@60), 720p60/50/30/25, SXGA(1280x1024@60), WXGA+(1440x900@60), UXGA(1600x1200@60 RB), WUXGA+(1680x1050@60), 1080p60/50/30/25, 2160p60/50/30/25	
	HDMI 2/3/4 Input (UC9040) / HDMI 2A/2B Input* (UC9020): VGA(640x480@60), 480p60/50/30/25, SVGA(800x600@60), XGA(1024x768@60), 720p60/50/30/25, SXGA(1280x1024@60), WXGA+(1440x900@60), UXGA(1600x1200@60 RB), 1080p60/50/30/25	
	*Only selected port show video, another one show non-video photo or graph.	
	SRC/PGM HDMI Output: 480p60/50/30/25, 576p60/50/30/25, 720p60/50/30/25, 1080p60/50/30/25	
	HDMI Loop-Through Output: VGA(640x480@60), 480p60/50/30/25, SVGA(800x600@60), XGA(1024x768@60), 720p60/50/30/25, SXGA(1280x1024@60), WXGA+(1440x900@60), UXGA(1600x1200@60 RB), WUXGA+(1680x1050@60), 1080p60/50/30/25, 2160p60/50/30/25	
Audio Inputs		
Interfaces	HDMI captured inputs (stereo) ; 2 x 1/4" TRS jack (dual mono)	HDMI captured inputs (stereo) ; 1 x Mic input, 1/4" TRS jack (dual mono) ; 1 x Line input, RCA jack, signal level: -10 dBV
Audio Outputs		
Interfaces	HDMI outputs (stereo) ; 1x 1/8" TRS jack (stereo)	HDMI outputs (stereo) ; 1x 1/8" TRS jack (stereo)
Network Protocol	Dual-stream encoder supports direct live streaming to CDN server over ethernet using Real Time Messaging Protocol (RTMP/RTMPS)	
	Video Encoding Format: H.264 Bit rate: 512Kbps~10Mbps Color Format: YUV420 Resolution: 1080p30/25, 720p60/50/30/25, 480p60/50/30/25	
	Audio Encoding Format: AAC Sampling rate: 48kHz Bit rate: 128kbps	
Recording Storage	Max. video resolution: 1080p30/25 File format : MP4	
	Support media: USB 3.x compatible mobile drive (HDD / SSD), at least 32GB of free space	
Connection	2x USB 3.2 Gen1 Type-A Female (Blue) 1x USB Type-C 1x GbE LAN port	1x USB 3.2 Gen1 Type-A Female (Blue) 1x USB2.0 Type-A (White) 1x GbE LAN port
Environmental		
Operating Temperature	0 - 40 °C	
Storage Temperature	-20 – 60 °C	
Humidity	0 - 80% RH, Non-Condensing	
OS Support	System requirements for iPads: • iPad Pro (3rd gen or later) with iOS 11 and above The following iPad with iOS 11 and above (Additional Apple Lightning USB 3 Adapter is required): • iPad Pro (1st and 2nd gen) • iPad (5th gen or later) • iPad Air (3rd gen or later) • iPad Mini (5th gen or later)	
	System requirements for Android tablets: • Android 9 and above • Octa-Core ARM Cortex grade CPU and above • Minimum 2.75GB system RAM • UC9040 with Firmware Ver.1.1.109 is also required	
	System requirements for Chromebook: • Chromebook with Android APP support • UC9040 with Firmware Ver.1.3.121 is also required	
Power		
Maximum Input Power Rating	DC1 2V: 7.5A	IEC C14, 100-240 Vac (w/250V fuse)
Power Consumption	DC 12V: 17.37W	AC110V: 12.9W; AC220V: 12.7W
Physical Properties		
Housing	Metal	
Weight	1.85 kg (4.07 lb)	1.89 kg (4.16 lb)
Dimensions (L x W x H)	28.85 x 18.99 x 9.66 cm (11.36 x 7.48 x 3.8 in.)	28.85 x 18.99 x 9.66 cm (11.36 x 7.48 x 3.8 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x USB-C to USB-A Cable (parts no.: LIN6-11B1-C11G); 1x USB-C to USB-C Cable (parts no.: LIN6-22B1-B12G); 1x AC Power Cable	1x USB-A to USB-C Cable (parts no.: LIN6-09B1-C11G); 1x USB-A to USB-A Cable (parts no.: LIN5-04U1-U1HG); 1x AC Power Cable

CAMLIVE™ (UC3020)

HDMI to USB-C UVC Video Capture



OS Support
Win, Mac, Android

USB-C

1080P
Capture



Features

- Captures unencrypted HDMI video signal from camcorder or DSLR up to 1080p @ 60*
- Supports live video streaming, webcasting and video conferencing
- Compatible with popular streaming software, such as OBS, Xsplit, YouTube, Facebook and Twitch
- Ideally suited for high-quality live streaming or video editing such as web conference, education, worship, and live events
- Plug and Play – supports UVC/UAC v1.1
- Compatible with USB 3.2 Gen 1 Type-C standard
- Works with all major operating systems: Windows®, OS X® and Android®

*CAMLIVE™ cannot display or capture HDCP protected content

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USB Peripherals

Specifications

	CAMLIVE™ (UC3020)
Connectors	
Video In	1 x HDMI Type A Female (Black)
USB Port	USB 3.2 Gen1 Type-C Male (White) (USB-C to USB-A adapter package included, Black)
Video Resolution	Video input: 1080p60, 720p60, 480p60, HDMI support (unencrypted)
Audio Sampling	16-bit PCM audio, 44.1KHz and 48KHz
Output	Uncompressed 1080p, 720p60 and 480p60 UVC video stream with UAC audio (Uncompressed video stream is only available on USB3.2 connection)
Power Consumption	DC5V: 1.5W
Minimum Hardware Requirements	PC/Mac: CPU: Intel® i3 Dual Core 2.8Ghz or higher RAM: 4GB or more One USB-C interface or USB-A interface Smartphone: Android device with UVC support and USB-C interface* *Latest UC3020 FW upgrade for smartphone support is required. For detail UVC compatible device list, please refer to following info revealed by third party App. https://www.camerafi.com/supported-devices/
OS Support	Windows 10 and above* Mac OS X 10.13 and above Android 5.0.1 and above with UVC support *Window 7 requires driver installation
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Aluminum
Weight	0.04 kg (0.09 lb)
Dimensions (L x W x H)	4.20 x 7.30 x 1.40 cm (1.65 x 2.87 x 0.55 in.)
Carton Lot	10 pcs
Included Accessories	1x USB-C to USB-A Adapter

CAMLIVE™+ (UC3021)

HDMI to USB-C UVC Video Capture with PD 3.0 Power Pass-Through



USB-C

Resolution
1080P

Power
Pass-Thru

PD3.0

OS Support
Win, Mac, Android



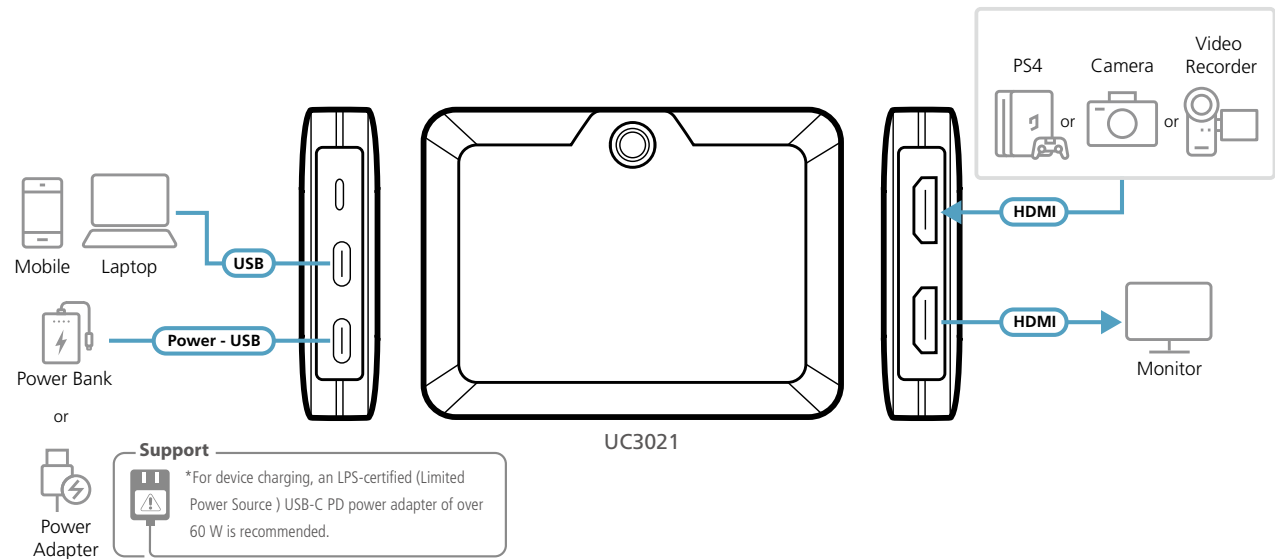
Rear



Features

- Supports unencrypted 4K video input for 1080P capture
- Software free –plug & play designed for PC, Mac and Android platform
- HDMI loop-out –supports real-time HDMI video preview
- Up to 60W power charging capability for laptop or Android phone – supports USB-C PD3.0. Power profile include 5V/9V/15V/20V (additional USB-C power adapter is needed)
- Ideally suited for high-quality live streaming or video editing such as web conference, education, worship, and live events
- Camera mount adapter makes the installation easier and stable
- Compatible with USB & Thunderbolt 3 (USB-C) specification

Setup > UC3021



Specifications

CAMLIVE™+ (UC3021)	
Connectors	
Video In	1 x HDMI Type A Female (Black)
Video Output	1 x HDMI Type A Female (Video Loop-out , Black)
USB Port	USB 3.2 Gen1 Type-C Female (Black) (USB-C to USB-C and USB-C to USB-A Cable package included)
Power (Optional)	1 x USB-C Female Support Power Delivery 3.0 for laptop charging up to 60W. Power profiles include 5V, 9V, 12V, 15V, 20V (Additional USB-C power adapter needed)* *For device charging, a Limited Power Source (LPS) certified single port USB-C PD Power Adapter is recommended.
Video Resolution	Video input: 2160p60, 1080p60, 720p60 and 480p60, HDMI support (Unencrypted) Video Loop-out: 2160p60, 1080p60, 720p60 and 480p60, HDMI support (Unencrypted)
Audio Sampling	16-bit PCM audio, 44.1KHz and 48KHz
Output	Uncompressed 1080p60, 720Pp60 & 480p60 UVC video stream with UAC audio (Uncompressed video stream is only available on USB3.1 connection)
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Minimum Hardware Requirements	PC/Mac: CPU: Intel® i3 Dual Core 2.8Ghz or higher RAM: 4GB or more One USB-C interface or USB-A interface Smartphone: Android device with UVC support and USB-C interface* *For detail UVC compatible device list, please refer to following info revealed by third party App. https://www.camerafi.com/supported-devices/
OS Support	Windows 10 and above Mac OS X 10.13 and above Android 5.0.1 and above with UVC support
Physical Properties	
Housing	Plastic
Weight	0.09 kg (0.2 lb)
Dimensions (L x W x H)	11.49 x 8.49 x 2.00 cm (4.52 x 3.34 x 0.79 in.)
Carton Lot	10 pcs
Included Accessories	1x USB-C to USB-A Cable; 1x USB-C to USB-C Cable; 1x Camera Mount Adapter; 1x Warranty Card

CAMLIVE™ PRO (UC3022)

Dual HDMI to USB-C UVC Video Capture



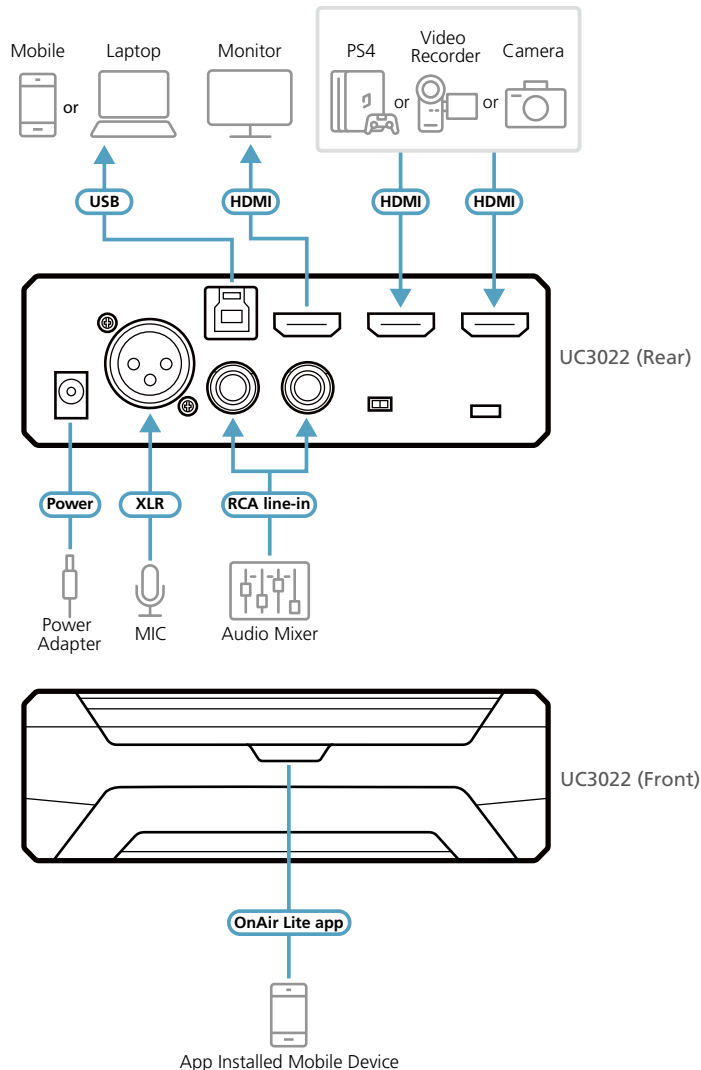
Rear



Features

- Mixes and captures two non-HDCP 4K live videos at 1080P UVC format on PC or mobile device via USB 3.x interface with seamless transition
- Intuitive Android / iOS App control – sets up your camera gear and direct your show from anywhere
- Supports real-time HDMI program video preview
- Easily identifiable chroma keys – can make the video look like you are anywhere by changing the background
- Ideally suited for high-quality live streaming or video editing such as web conference, education, worship, and live events
- Provides audio mixer with additional dual analog audio inputs
- Supports protected video switching mode for regular event usage
- Compatible with USB & Thunderbolt 3 (USB-C) specification

Setup > UC3022



Specifications

CAMLIVE™ PRO (UC3022)	
Connectors	
Video In	2 x HDMI Type A Female (Black)
USB Port	USB 3.x Gen1 Type-B Male (Blue) (USB-B to USB-C and USB-B to USB-A cable are included in the package)
Video Output	1 x HDMI Type A Female (PGM Video, Black)
Audio Inputs	1 x balanced analog audio via XLR connectors 1 x unbalanced audio via RCA connectors
Video Resolution	Video input: 2160p30/25/24, 1080p60/50/30/25/24, 720p60/50, HDMI support PGM video out: 1080p60/50/30/25/24, 720p60/50, HDMI support (unencrypted) (Support encrypted PGM output at 2160p30/25/24, 1080p60/50/30/25/24, 720p60/50 with UVC capture disabled)
Audio Sampling	16-bit PCM audio, 44.1KHz and 48KHz
Output	720p60 & 1080p60 UVC video stream with UAC audio (Uncompressed video stream is only available on USB 3.x connection)
Minimum Hardware Requirements	PC/Mac: CPU: Intel® i3 Dual Core 2.8Ghz or higher RAM: 4GB or more One USB-C interface or USB-A interface Smartphone*: Android device with UVC support and USB-C interface *For detail UVC compatible device list, please refer to following info revealed by third party App. https://www.camerafi.com/supported-devices/
Connection	Bluetooth Low Energy(BLE) technology
OS Support	Windows 10 and above* Mac OS X 10.13 and above Android 5.x and above or iOS 10.1 and above , with Bluetooth 4.2 or higher supporting Bluetooth Low Energy (BLE) *Window 7 requires driver installation
Power Consumption	DC5V: 4.4W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.68 kg (1.5 lb)
Dimensions (L x W x H)	13.00 x 15.18 x 4.25 cm (5.12 x 5.98 x 1.67 in.)
Carton Lot	5 pcs
Included Accessories	1x USB-B to USB-C Cable; 1x USB-B to USB-A Cable; 1x Power Adapter

Docking Stations




15

USB Peripherals

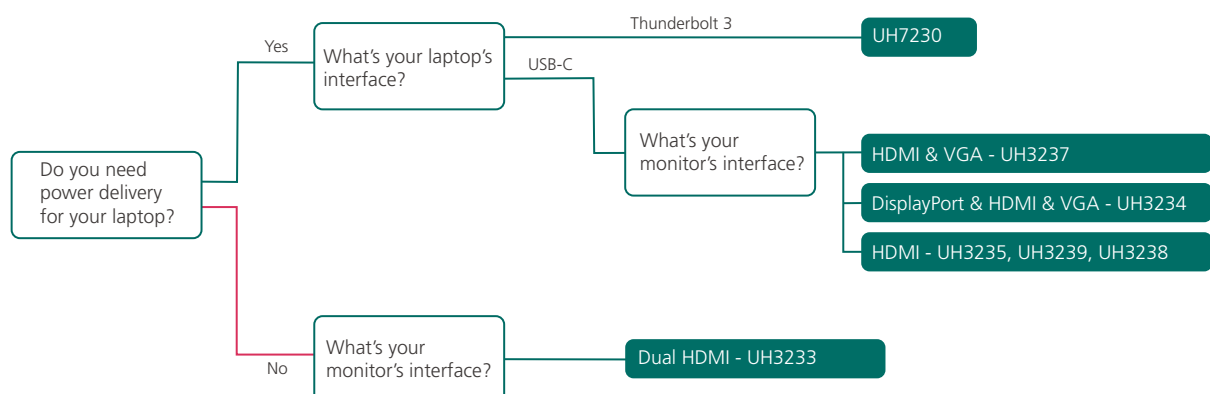


ATEN provides a full range of docking stations that are designed to expand connectivity and create simplified and productive workspaces for any desktop environment. Whatever your desktop needs, ATEN has the best docking stations for any budget. Enjoy the stations's ergonomic design while boosting productivity and charging your laptop at the same time.

To utilize the full power of your docking station, we suggest your laptop meets the following system requirements:

Windows USB-C enabled Laptop			Multiplatform Support
<ol style="list-style-type: none"> 1. Windows® 10 (32-bit / 64-bit) and above. 2. Intel 7th-Generation Core Processor and above. 3. For video output to work through a USB-C port, it must support DP Alt Mode. <p>To identify the right products, look for the below logos.</p>			<ol style="list-style-type: none"> 1. MacBook 2015 and later 2. MacBook Pro 2016 and later 3. Mac OS X 10.12 and above
• SuperSpeed USB Trident Logo + DisplayPort Logo	• SuperSpeed USB Power Delivery Trident Logo + DisplayPort Logo	• SuperSpeed USB 10 Gbps Power Delivery Trident Logo + DisplayPort Logo	
			

Docking Station Selection Map



UH3239

USB-C Multiport Mini Dock with Power Pass-Through



PD2.0



Features

- 6-in-1 Multi-function Dock – includes an HDMI, SD/Micro SD card reader, USB-C PD port and two USB 3.2 Gen1 Type-A ports
- Supports USB Power Delivery 2.0 for laptop charging up to 60W via USB-C PD power adapter - power profiles include 5V, 12V, 15V, 20V
- Supports up to 4K resolution – up to 3840 x 2160 @ 30Hz for superior video output
- Plug and Play – no drivers needed
- Works with all major operating systems: Windows®, OS X® and iPad Pro® (USB-C)
- Compatible with Thunderbolt 3 (USB-C)

Specifications

	UH3239
Computer Connections	1
Cable Length	55cm
Connectors	
Computer	USB 3.2 Gen1 Type-C Male Cable
Device	2 x USB 3.2 Gen 1 Type-A Female (Blue)
Power	1 x USB Type-C Female (supports USB 3.2 Gen1 Type-C Port data transfer) Supports Power Delivery 2.0 for laptop charging up to 60W. Power profiles include 5V, 12V, 15V, 20V (additional USB-C power adapter is needed)
Video Output	1 x HDMI Female (Black)
Performance	
Flash Memory	Supports SD V1.0/ V1.1/ V2.0/ V3.01 and V5.0 SD (Capacity up to 2GB) SDHC (Capacity up to 32GB) SDXC (Capacity up to 2TB)
Video Resolution	3840 x 2160@30Hz
Power Consumption	DC5V: 15W
System Requirements	• Windows 10 and above, USB-C enabled computer with DP Alt Mode*
	*With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html • Mac OS X 10.12 and above, USB-C enabled computer • iPadOS 13.1 and above, iPad Pro (USB-C)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Aluminum
Weight	0.08 kg
Dimensions (L x W x H)	13.30 x 3.60 x 1.10 cm
Carton Lot	20 pcs

UH3238

USB-C Travel Dock with Power Pass-Through



OS Support
Win, Mac, iPad Pro

USB 3.2
Gen 1

Power
Pass-Thru

PD3.0



Features

- 5-in-1 Travel Dock – includes an HDMI port, Audio Jack, USB-C port and two USB 3.2 Gen 1 Type-A ports
- Supports USB Power Delivery 3.0 for charging up to 92W via USB-C PD power adapter - power profiles include 5V, 9V, 15V, 20V
- Supports DP1.4 Alt mode with up to 4K (3840 x 2160) @60Hz resolution for superior video output
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compliant
- Compact Design
- Plug and Play – no drivers needed
- Works with all major operating systems: Windows®, OS X®, iPad Pro® (USB-C), and Android
- Compatible with Thunderbolt 3 (USB-C)

Specifications

	UH3238
Computer Connections	1
Connectors	
Computer	USB 3.2 Gen 1 Type-C
Device	2 x USB 3.2 Gen 1 Type-A Female (Blue)* 1 x USB 3.2 Gen 1 Type-A Female (Black)* *a. 1 x USB 3.2 Gen 1 Type-A supports BC 1.2 (5V, 7.5W) *b. 1 x USB 3.2 Gen 1 Type-A supports 5V, 4.5W *c. The total output of 2 x USB-A ports is max. 5V, 9W *d. 1 x USB 3.2 Gen 1 Type-C supports 5V, 7.5W *e. The total output of 3 x USB (2A+1C) ports is max. 5V, 7.5W
Video Output	1 x HDMI Female (Black)
Audio	1 x 3.5mm stereo 4-pole microphone and headphone jack
Power	1 x USB Type-C Female (support USB 3.2 Gen 1 Data transfer)* *Supports Power Delivery 3.0 for laptop charging up to 92W. Power profiles include 5V, 9V, 15V, 20V (additional USB-C power adapter is needed)
Video Resolution	3840 x 2160@60Hz* *To get max bandwidth, upstream should support standard DP1.4 Alt mode with DSC3:1 and HBR3. When connecting a DP1.2 Alt mode supported upstream, the max resolution of HDMI is 4k@30Hz due to bandwidth limitation
Power Consumption	DC5V: 8W
System Requirements	• Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html • Mac OS X 10.12 and above, USB-C enabled computer • iPadOS 13.1 and above, iPad Pro (USB-C) • Android 8.0 and later, USB-C enabled Smartphone with DP Alt Mode
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Aluminum
Weight	0.04 kg
Dimensions (L x W x H)	9.00 x 3.20 x 0.82 cm
Carton Lot	20 pcs

UH3235

USB-C 4K Ultra Mini Dock with Power Pass-Through



Front



Rear



Features

- A multifunctional USB-C mini dock for laptop, smartphone and USB-C game console
- Supports USB Power Delivery 2.0 for charging up to 60W (additional USB-C PD power adapter is needed)
- Supports 4K resolutions – up to 3840 x 2160 @ 30Hz
- Supports Samsung DeX mode or Huawei Desktop mode
- Lightweight and card case-sized design – stylish and ultra mini design for easy carrying
- Compatible with Thunderbolt 3 (USB-C)

Specifications

	UH3235
Computer Connections	1
Cable Length	50 cm
Connectors	
Computer	1 x USB-C Female (Black)
Device	1 x USB 2.0 Type-A Female (Black)* 1 x USB 3.2 Gen 1 Type-A Female (Blue)** *Supports max. 5V, 0.3A output **Supports max. 5V, 0.7A output
Video Output	1 x HDMI Female (Black)
Power	1 x USB-C DC-in Female* *Supports Power Delivery 2.0 for charging up to 60W. Power profiles include 5V, 9V, 15V, 20V (Additional USB-C PD power adapter is needed) *For mobile device charging, a Limited Power Source (LPS) certified single port USB-C PD Power Adapter over 25 Watt is recommended.
Video Resolution	3840 x 2160 @ 30Hz
Power Consumption	DC5V: 7.5W
System Requirements	<ul style="list-style-type: none">• Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html <ul style="list-style-type: none">• Mac OS X 10.12 and above, USB-C enabled computer• Android 8.0 and later, USB-C enabled Smartphone with DP Alt Mode** **Only Samsung and Huawei support PC-like operation, others only support mirror mode. For a list of supporting mobile device, refer to UH3235's user manual. <ul style="list-style-type: none">• iPadOS 13.1 and above, iPad Pro (USB-C)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.05 kg (0.11 lb)
Dimensions (L x W x H)	9.30 x 7.00 x 1.50 cm (3.66 x 2.76 x 0.59 in.)
Carton Lot	20 pcs
Included Accessories	1x USB-C Cable

UH3234

USB-C Multiport Dock with Power Pass-Through



OS Support
Win, Mac, iPad Pro

USB 3.2
Gen 1

DisplayPort

DP HDMI Dual
View

Power
Pass-Thru

PD2.0

Fits 13"
laptops

15

USB Peripherals



Features

- Extends up to 10 devices through a single USB-C cable
- Supports single display output up to 4K @ 30Hz (3840 x 2160 @ 30Hz) or dual display output up to 1080P (1920 x 1080 @ 60Hz)
- Supports USB Power Delivery 2.0 (PD2.0) for laptop charging up to 60W via USB-C power adapter – power profile include 5V, 9V, 12V, 20V
- Enhanced EMI protection by increasing the cable braid density and adding conductive foam
- Stylish and ultra slim design allows user to place the 13" laptop directly on the top of docking station and save space on desk*
- The rear feet of 12" MacBook fit right into the mounting pits on UH3234
- Compatible with Thunderbolt 3 (USB-C)

*Fits 13" laptops with a USB-C port on the left side.



Specifications

	UH3234
Computer Connections	1
Connectors	
Computer	1 x USB-C Male
Device	1 x USB 3.2 Gen1 Type-A Female with BC1.2 (Blue)* 2 x USB 3.2 Gen1 Type-A Female (Blue)* *The total output of 3 USB Ports is max. 5V, 10W.
Video Output	1 x DisplayPort Female 1 x HDMI Female 1 x VGA Female
LAN Ports	1 x Gigabit Ethernet Female
Audio	1 x 3.5mm Stereo 4-pole microphone and headphone jack
Power	1 x USB-C DC-in Female* * Supports USB Power Delivery 2.0 for charging up to 60W. Power profiles include 5V, 9V, 12V, and 20V (Additional USB-C PD power adapter needed). * The minimum system power requirement for basic USB functions and video output should be at least 5V, 15W. * For device charging, a Limited Power Source (LPS) certified USB-C PD power adapter over 65 Watt is recommended.
Power Consumption	DC5V: 15W
System Requirements	<ul style="list-style-type: none"> • Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html <ul style="list-style-type: none"> • Mac OS X 10.12 and above, USB-C enabled computer • iPadOS 13.1 and above, iPad Pro (USB-C)* *iPad Pro only supports single view in mirror mode
Performance	
Flash Memory	1 x SD/SDHC/SDXC card slot 1 x Micro SD/SDHC/SDXC (up to 128 GB) card slot* *SD and Micro SD Card cannot be used at the same time; functionality accords to the order of insertion.
Video Resolution	Single View: DisplayPort – 3840 x 2160 @ 30 HDMI – 3840 x 2160 @ 30 VGA – 1920 x 1200 @ 60 Dual View*: DisplayPort / HDMI – 1920 x 1080 @ 60 DisplayPort / VGA – 1920 x 1080 @ 60 *For Dual-View to work, a computer's graphics card must support MST technology. Mac computers and iPad Pro only support a single-view output.
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-10 – 70°C
Humidity	10 – 90% relative humidity, non-condensing
Physical Properties	
Housing	Aluminum
Weight	0.32 kg (0.7 lb)
Dimensions (L x W x H)	28.00 x 7.50 x 1.45 cm (11.02 x 2.95 x 0.57 in.)
Carton Lot	10 pcs

UH3237

USB-C Multiport Dock with Power Pass-Through



OS Support
Win, Mac, iPad Pro

USB
USB 3.2
Gen 1

Dual View
1080P

Power
Pass-Thru

PD3.0

Fits 15"
laptops

15

USB Peripherals



Features

- Expands up to 13 devices through a single USB-C cable
- Supports single display output up to 4K @ 30Hz (3840 x 2160 @ 30Hz) or dual display output up to 1080P (1920 x 1080 @ 60Hz)
- Supports USB Power Delivery 3.0 (PD3.0) for laptop charging up to 85W via USB-C power adapter - power profile include 5V, 9V, 12V, 15V, 20V
- Stylish and ultra slim design allows user to place the 15" laptop directly on the top of docking station and save more space on desk*
- Enhanced EMI protection by increasing the cable braid density and adding conductive foam
- Compatible with Thunderbolt 3 (USB-C)

*Fits 13"~15" laptops with a USB-C port on the left side.



Specifications

	UH3237
Computer Connections	1
Connectors	
Computer	30 cm USB 3.2 Gen 1 Type-C tethered cable
Device	2 x USB 2.0 Type-A Female (Black)* 3 x USB 3.2 Gen 1 Type-A Female (Blue)* 1 x USB 3.2 Gen 1 Type-C Female (Data Only)* *The total output of 6 USB Ports is max. 5V, 10W.
Video Output	2 x HDMI Female 1 x VGA Female
LAN Ports	1 x Gigabit Ethernet Female (Black)
Audio	1 x 3.5mm Stereo 4-pole microphone and headphone jack 1 x USB Type-C Female*
Power	*Supports USB Power Delivery 3.0 for charging up to 85W. Power profiles include 5V, 9V, 12V, and 20V. *For device charging, a Limited Power Source (LPS) certified single port USB-C PD power adapter over 65 Watt is recommended. *The minimum system power requirement for basic USB functions and video output should be at least 5V, 15W.
Power Consumption	DC5V: 15W
System Requirements	<ul style="list-style-type: none"> • Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html • Mac OS X 10.12 and above, USB-C enabled computer • iPadOS 13.1 and above, iPad Pro (USB-C)* *iPad Pro only supports single view in mirror mode
Performance	
Flash Memory	1 x SD Card Slot (SD/SDHC/SDXC) 1 x Micro SD Card Slot (Micro SD/SDHC/SDXC up to 128G)* *SD and Micro SD Card cannot be used at the same time; functionality accords to the order of insertion.
Video Resolution	Single View: HDMI – 3840 x 2160 @ 30 or VGA – 1920 x 1080 @ 60 Dual View*: 2 x HDMI – 1920 x 1080 @ 60 *For Dual-View to work, a computer's graphics card must support MST technology. Mac computers and iPad Pro only support a single-view output.
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Top Cover – Aluminum Bottom Panel – Plastic
Weight	0.37 kg
Dimensions (L x W x H)	35.03 x 7.50 x 1.48 cm
Carton Lot	10 pcs

UH3233

USB-C Dual-HDMI Mini Dock



HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

OS Support
Win, Mac, iPad Pro

USB
USB 3.2
Gen 1

Dual View
1080P

15

USB Peripherals



Rear



Features

- Connects a USB-C computer to two HDMI monitors with Dual-View output
- Supports 4K (UHD) resolutions via single display output
- Supports dual-display video output up to 1920 x 1080 simultaneously
- USB 3.2 Gen1 port with data transfer rates up to 5 Gbps
- Plug and Play – no drivers or external power adapter needed
- Works with all major operating systems: Windows®, OS X®, and iPad Pro® (USB-C)
- Compatible with Thunderbolt 3 (USB-C)

Specifications

	UH3233
Computer Connections	1
Connectors	
Computer	1 x USB-C Female (Black)
Device	1 x USB 3.2 Gen 1 Type-A Female (Blue)
Video Output	2 x HDMI Female (Black)
LEDs	
Power	1 (Blue / Orange)
Video Resolution	Single View: HDMI – 3840 x 2160 @ 30 Dual View*: HDMI – 1920 x 1080 @ 60 *For Dual-View to work, a computers graphics card must support MST technology. Mac computers and iPad Pro only support single-view output.
Power	
Power Mode	Bus-Powered
Consumption	DC5V: 2W
System Requirements	<ul style="list-style-type: none">• Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html <ul style="list-style-type: none">• Mac OS X 10.12 and above, USB-C enabled computer• iOS 12.1 and above, iPad Pro 3rd generation (2018)** **For better HID experience, iPadOS 13 and above is recommended.
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.10 kg (0.22 lb)
Dimensions (L x W x H)	9.37 x 9.30 x 2.68 cm (3.69 x 3.66 x 1.06 in.)
Carton Lot	20 pcs
Included Accessorie	1x USB-C to USB-C Cable

UH7230

Thunderbolt™ 3 Multiport Dock with Power Charging



Rear



Features

- Supports both Thunderbolt 3 (40Gbps) and USB 3.2 Gen 2 (10Gbps) protocol through a single Thunderbolt 3 cable
- Connects up to 8 devices to a laptop via a single Thunderbolt 3 cable / can daisy-chain 5 additional Thunderbolt devices
- Supports 5K resolution on a single Thunderbolt 3 display or dual 4K resolution on one DisplayPort display and one USB-C / Thunderbolt 3 display
- 85W Universal Power Delivery for charging a Thunderbolt 3 laptop or MacBook pro ; supports 20V/4.25A, 15V/3A, 9V/3A and 5V/3A power specification for the output power
- Compatible with legacy Thunderbolt devices via adapter
- Gigabit Ethernet port
- Audio line-in and line-out
- OS Support: Windows 10 32/64 bit, and OS X Sierra 10.12 later

Specifications

	UH7230
Computer Connections	1 x Thunderbolt Computer
Device Connections	
Direct	1
Maximum	5 Max. (via Thunderbolt Daisy-chaining)
Connectors	
Computer	1 x Thunderbolt 3 (USB-C) Female (Black)
Device	1 x Thunderbolt 3 (USB-C) Female (Black); 2 x USB 3.2 Gen1 Type-A Female (Blue); 1 x USB 3.2 Gen1 Type-C Female (Black, data only)
LAN Ports	1 x Gigabit Ethernet Female (Black)
Audio Inputs	1 x 3.5mm Stereo Input Female (Black)
Audio Outputs	1 x 3.5mm Stereo Output Female (Black)
Power Jack	1
Video Output	1x DisplayPort Female; 1x Thunderbolt 3 (USB-C) Female
Video Resolution	Single View: Thunderbolt 3 (USB-C) Monitor – 5K @ 60; USB-C Monitor – 4096 x 2160 @ 60; DisplayPort Monitor – 4096 x 2160 @ 60 Dual View: Thunderbolt 3 (USB-C) Monitor or USB-C Monitor – 4096 x 2160 @ 60; DisplayPort Monitor – 4096 x 2160 @ 60
Power	
Power Mode	Self-Powered
Consumption	DC20V: 170W
System Requirement	<ul style="list-style-type: none"> • Windows 10 and above, Thunderbolt 3 (USB-C) enabled computer • Mac OS X 10.12 and above, Thunderbolt 3 (USB-C) enabled computer
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Aluminum
Weight	0.37 kg (0.83 lb)
Dimensions (L x W x H)	22.20 x 8.20 x 2.60 cm (8.74 x 3.23 x 1.02 in.)
Carton Lot	3 pcs
Included Accessorie	1x Thunderbolt 3 USB-C Cable; 1x AC Power Adapter with Cable

Docking Switches

15

USB Peripherals



The ATEN Thunderbolt 2.0 / USB-C docking switch is a docking station with sharing switch functionality designed to expand connectivity and share displays and USB devices between different laptops, iPad Pro, or even smartphones, allowing the use of one set of display, keyboard, and mouse to seamlessly control two systems and save desk space.

- **Ultra High Speed**

Supports data transfer rate up to 20Gbps for next-gen versatility.

- **Dual 4K Display Sharing**

Dual 4K output via Thunderbolt™ and HDMI ports for an unrestricted multimedia experience.

- **Key Switch**

With the press of a button on the remote port selector, two computers can share peripherals connected to the docking switch.

- **2-sec Speedy Switch**

Exclusive ATEN technology that eliminates lag and resolution issues, switching between two systems only take two seconds, making workflow more efficient.

- **Power Delivery 3.0 Pass-Through**

The power delivery 3.0 pass-through charges phone and laptop simultaneously and also provides enough power for power-hungry devices such as external hard drives or gaming devices.

- **DeX mode Support**

With smartphone compatibility, the docking switch can dock with a smartphone to build a workstation with an external display in Samsung DeX mode for multitasking.

Note: The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.

US3310

2-Port USB-C Gen 1 Dock Switch with Power Pass-Through



OS Support
Win, Mac,
iPad Pro, Android

Power
Pass-Thru

USB 3.2
Gen 1

PD3.0

DeX mode
support



Front



Rear



Features

- Allows a USB-C laptop and an Android Smartphone to share one HDMI monitor and all connected USB peripherals
- Provides USB Power Delivery 3.0 for laptop charging up to 85W (additional USB-C Power Adapter is needed)
- Supports 4K resolutions – up to 3840 x 2160 @ 30Hz
- Supports Samsung DeX mode or Huawei Desktop mode
- Video DynaSync™ – allows EDID and HDCP monitors and computers to function flawlessly, and provides fast switching such as continuous real-time switching
- Switches device via remote port selector by pressing a button
- Plug and play – no drivers needed
- Multiplatform support – Windows, Mac, Android & iPad Pro (2018)
- Compatible with Thunderbolt 3 (USB-C)

15

USB Peripherals

Specifications

US3310	
Computer Connections	2
Connectors	
Computer	USB 3.2 Gen 1 Type-C Port 1 (Laptop); USB 3.2 Gen 1 Type-C Port 2 (Apple M1 chip)
Device	2 x USB 3.2 Gen 1 Type-A Female
Video Output	1 x HDMI Female
Power	1 x USB-C DC-in Female*
	Port 1 : Supports USB-C PD laptop charging at 5V, 9V, 15V, 20V output*
	Port 2 : Supports max. 5V, 2A output
*Supports maximum 100W USB-C PD power adapter input. *For device charging, a Limited Power Source (LPS) certified single port USB-C PD Power Adapter over 65 Watt is recommended. The minimum system power requirement for basic USB functions and video output should be at least 5V, 3A. *The first 15W will supply the US3310, the next 10W will supply USB-C device connected to Port 2, and the balance power will supply USB-C device connected to Port 1.	
Port Selection	
Input	Remote port selector
Video Resolution	Up to 3840 x 2160 @ 30Hz
System Requirements	• Windows 10 and above, USB-C enabled computer with DP Alt Mode*
	*With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html
	• Mac OS X 10.12 and above, USB-C enabled computer
• Android 8.0 and later, USB-C enabled Smartphone with DP Alt Mode**	
**Only Samsung and Huawei support PC-like operation, others only support mirror mode. For a list of supporting mobile device, refer to US3310's user manual.	
• iPadOS 13.1 and above, iPad Pro (USB-C)*	
*Support video output in mirror mode	
Power Consumption	DC5V: 1.24W
LEDs	
Selected	2 (White)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Aluminum
Weight	0.33 kg (0.73 lb)
Dimensions (L x W x H)	14.30 x 11.90 x 2.38 cm (5.63 x 4.69 x 0.94 in.)
Carton Lot	10 pcs
Included Accessories	2x USB-C Cables; 1x Remote Port Selector

Sharing Switches

US3342

2-Port USB-C Gen 2 Sharing Switch with Power Pass-Through

OS Support

Win, Mac



USB-C



Power
Pass-Thru



USB 3.2
Gen 2

PD 3.0

Seamless
Sharing



Front



Rear



Features

- Enables two USB-C computers to share 4 USB 3.2 Gen 2 peripheral devices with data transfer rates up to 10Gbps
- Supports USB-C Power Delivery 3.0 for laptop charging up to 85W (Additional USB-C Power Adapter is needed)*
- BEZEL X – Enables file transfer function and mice control cross two platforms, Windows and Mac
- Supports power profiles 5V, 9V, 15V, and 20V power specification
- Switches device via Remote Port Selector by pressing a button
- LEDs Console Indicator – Allows users to know which computer is active
- Plug and play – No drivers or external power adapter needed
- Overcurrent protection

*For device charging, a Limited Power Source (LPS) certified USB-C PD Power Adapter over 65W is recommended. The minimum system power requirement for basic USB functions and video output should be at least 5V, 3A.

Specifications

	US3342
Computer Connections	2
Connectors	
Computer	2 x USB 3.2 Gen 2 Type-C Female (Black)
Device	3 x USB 3.2 Gen 2 Type-A Female (Blue) 1 x USB 3.2 Gen 2 Type-C Female (Black)
Power	USB Type-C Female x 1, supports USB PD3.0 at 5V, 9V, 15V and 20V output* *For device charging, a Limited Power Source (LPS) certified single port USB-C PD Power Adapter over 65Watt is recommended. The minimum system power requirement for basic USB functions should be at least 5V, 3A.
Port Selection	
Input	Remote port selector / software
Power	
Power Mode	Bus-Powered
Power Consumption	DC5V: 0.43W
LEDs	
Selected	2 (White)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Aluminum
Weight	0.26 kg (0.57 lb)
Dimensions (L x W x H)	14.30 x 9.00 x 2.38 cm (5.63 x 3.54 x 0.94 in.)
Carton Lot	10 pcs
Included Accessories	2x USB-C 3.2 Gen 2 Cables; 1x Remote Port Selector

US3344I

4 x 4 USB 3.2 Gen 1 Industrial Hub Switch

OS Support

Win, Mac, Linux

USB

USB 3.2
Gen 1

Terminal Block

Data / DC Power

Front



Rear



Features

- Enables four computers to share USB peripheral up to four devices
- Supports USB 3.2 Gen 1 specification, maximum data transfer rates up to 5Gbps
- Multiplatform support - Windows, Mac and Linux
- LED indicators display port focus
- Metal mechanical cassis with wall mountable designs
- Supports aftermarket USB M2 screw locking cable
- Supports port selection via remote controller or RS-422/RS-485 link through 5-pin terminal block
- Hot pluggable
- Supports DC 9-24V power input by terminal block
- Supports Battery Charging V1.2 and overcurrent protection

Specifications

	US3344I
Computer Connections	4
Connectors	
Computer	4 x USB Type-B Female (Blue)
Device	4 x USB Type-A Female (Blue)
Serial	1 x 5-pin Terminal Plug (Green)
Power	1 x 2-pin 9-24V Terminal Plug (Green)
Power (Optional)	1 x 12V DC Jack Female (Black)* *Available for purchase separately from your closest ATEN dealer (Part No.: OAD8-8012-33MG)
Power Mode	Terminal Block / DC Jack Power Adapter
Port Selection	Remote port selector / Serial command
Power	
Power Mode	Bus-Powered
Power Consumption	DC 12V: 0.376W
LEDs	
Selected	4 (Green)
Serial	RS-422 (Orange) RS-485 (Green)
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.51 kg (1.12 lb)
Dimensions (L x W x H)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)
Carton Lot	5 pcs
Included Accessories	2x USB 3.2 Gen 1 Type-B to Type-A Cable 1.2 m; 2x USB 3.2 Gen 1 Type-B to Type-A Cable 1.8 m; 1x Remote Port Selector; 1x Mounting Kit; 1x Terminal Block Adapter Set (an RS-422/RS-485 and a DC terminal block adapter)

US234 / US434 / US3324 / US3344

2 x 4 / 4 x 4 USB 3.2 Gen 1 Peripheral Sharing Switch



Front

- US234 / US434 / US3324 / US3344

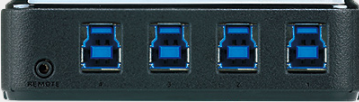


Rear

- US234 / US3324



- US434 / US3344



Features

- Enables 2 (US234 / US3324) / 4 (US434 / US3344) computers to share 4 USB 3.2 Gen 1 devices
- Simple port selection via remote port selector for convenient switch placement
- USB 3.2 Gen 1 compliant, supporting data transfer rates of up to 5Gbps
- LEDs indicate which computer is active
- Overcurrent protection
- Micro USB power jack for additional power supply
- Bus-powered – no external power supply needed
- Plug and Play – no drivers or external power adapter needed
- Multiplatform support – Windows, Linux and Mac
- Additional USB 3.2 Gen 1 Type-B to Type-C cable included in the US3324 / US3344 package

Specifications

	US234	US434	US3324	US3344
Computer Connections	2	4	2	4
Port Selection	Remote port selector			
Connectors				
Computer	2 x USB Type-B Male (Blue)	4 x USB Type-B Male (Blue)	2 x USB Type-B Male (Blue)	4 x USB Type-B Male (Blue)
Device	4 x USB Type-A Female (Blue)			
Power (Optional)	1 x USB micro B Female (Black)			
Cable Length				
USB Cable	2 x USB 3.2 Gen 1 B to A Cable 1.2 m	2 x USB 3.2 Gen 1 B to A Cable 1.2 m / 2 x USB 3.2 Gen 1 B to A Cable 1.8 m	2 x USB 3.2 Gen 1 B to A Cable 1.2 m / 1 x USB 3.2 Gen 1 B to C Cable 1.8 m	2 x USB 3.2 Gen 1 B to A Cable 1.2 m / 2 x USB 3.2 Gen 1 B to A Cable 1.8 m / 2 x USB 3.2 Gen 1 B to C Cable 1.8 m
Remote Port Selector	1.8 m			
Power				
Power Mode	Bus-Powered			
Power Consumption	DC5V: 0.75W			
LEDs				
Selected	2 (White)	4 (White)	2 (White)	4 (White)
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0–80% RH, Non-condensing			
Physical Properties				
Housing	Plastic			
Weight	0.12 kg (0.26 lb)	0.13 kg (0.29 lb)	0.12 kg (0.26 lb)	0.13 kg (0.29 lb)
Dimensions (L x W x H)	9.37 x 9.30 x 2.68 cm (3.69 x 3.66 x 1.06 in.)			
Carton Lot	10 pcs			

US224 / US424

2 x 4 / 4 x 4 USB 2.0 Peripheral Sharing Switch



Features

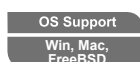
- Simple port selection via remote port selector for convenient switch placement
- Built-in USB ports – all-in-one design allows for a neat and tidy installation that reduces cable clutter
- Enables 2 / 4 computers to share 4 USB devices – a USB keyboard, mouse and up to 2 peripheral devices
- USB 2.0 compliant
- Multiplatform support – Windows, Linux, Mac and Sun
- LED indicators display port focus
- Overcurrent protection
- Bus-powered (supports optional USB power adapter)
- Hot pluggable

Specifications

	US224	US424
Computer Connections	2	4
Port Selection	Remote port selector	
Connectors		
Computer	2 x USB Type-A Male (Black)	4 x USB Type-A Male (Black)
Device	4 x USB Type-A Female (Black)	
Power (Optional)	1 x USB mini B Female (Black)	
Cable Length		
USB Cable	2 x 1.2 m	2 x 1.2 m / 2 x 1.8 m
Remote Port Selector	1.8 m	
Power		
Power Mode	Bus-Powered	
Power Consumption	DC5V: 0.51W	
LEDs		
Selected	2 (Green)	2 (Green / Orange)
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.14 kg (0.31 lb)	0.22 kg (0.48 lb)
Dimensions (L x W x H)	8.24 x 6.65 x 2.53 cm (3.24 x 2.62 x 1 in.)	
Carton Lot	20 pcs	

US221A / US421A

2/4-Port USB 2.0 Peripheral Sharing Switch



• US221A



• US421A



Features

- Auto switch function – no need for print server
- Supports multifunction printers
- Enables 2 / 4 computers share a single USB peripheral device
- Simple port selection via pushbuttons, configuration utility, or auto switch function
- Supports transfer rates up to 480 Mbps
- Multiplatform support – Windows and Mac
- LED indicators display port focus
- Overcurrent protection
- Bus-powered
- Hot pluggable
- Buzzer indicates switching between computers

Specifications

	US221A	US421A
Console Connections	2	4
Port Selection	Pushbuttons, Software, Auto Switch	
Connectors		
Computer	2 x USB Type-B	4 x USB Type-B
Device	1 x USB Type-A	
LEDs		
Devices	1 (Orange)	
Selected	2 (Green)	4 (Green)
Switches	1 x Pushbutton	4 x Pushbutton
Power Mode	Bus-Powered	
Power Consumption	DC5V: 0.4W	DC5V: 0.86W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.06 kg (0.13 lb)	0.10 kg (0.22 lb)
Dimensions (L x W x H)	7.18 x 6.58 x 2.44 cm (2.83 x 2.59 x 0.96 in.)	10.40 x 7.96 x 2.20 cm (4.09 x 3.13 x 0.87 in.)
Carton Lot	20 pcs	
Included Accessories	1x USB Type-A to USB Type-B Cable (1.8m)	

USB Converters

UC3238

2.7 m USB-C to 4K HDMI Converter



Features

- Connects a USB-C enabled laptop or smartphone which utilizes "DP Alt Mode" functionality to an HDMI compatible display using a single cable
- Supports resolution up to 3840 x 2160 @ 60Hz
- Supports a long-distance connectivity of up to 2.7 meters
- No additional dongles and HDMI extension cables needed
- Plug and play – no drivers or external power adapter needed
- Works with all major operating systems: Windows®, OS X®, and iPad Pro® (USB-C)
- Compatible with Thunderbolt 3 (USB-C)

UC3008A1

USB-C to 4K HDMI Adapter



Features

- Transfers high-quality video from a USB-C enabled laptop or smartphone to a HDMI 4K@60Hz (4096 x 2160@60Hz) display, TV or projector
- Premium casing can resist signal interference during video transmission and heat insulation
- Compact and lightweight design
- Works with all major operating systems: Windows®, OS X®, and iPad Pro® (USB-C)
- Plug and Play – no software required

Specifications

	UC3238
Computer Connections	1
Connectors	
USB Port	1 x USB-C Male
Video Output	1 x HDMI Type A Male
Video	
Max. Pixel Clock	594MHz
Max. Resolution	3840 x 2160 @ 60 Hz
Compliance	USB 3.2 Type-C with DP Alt Mode (Thunderbolt™ 3 Compatible), USB Billboard Device Class, HDCP 2.2, HDMI
Audio	
Output	1 x HDMI Type A Male
Power	
Power Mode	Bus-Powered
Consumption	DC5V: 1W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.09kg (0.35lb)
Dimensions (L x W x H)	6.40 x 2.10 x 1.10 cm (2.52 x 0.83 x 0.43 in.)
Carton Lot	20 pcs

Specifications

	UC3008A1
Video Input	
Interfaces	15.4 cm USB 3.2 Gen1 Type-C Cable
Video Output	
Interfaces	1 x HDMI Female
Video	
Max. Pixel Clock	594MHz
Max. Resolution	4096 x 2160 @ 60Hz
Compliance	USB 3.2 Gen 1 Type-C with DP Alt Mode (Thunderbolt™ 3 Compatible) HDMI; HDCP 2.2; USB Billboard Device Class
Audio	
Output	1 x HDMI Female
Power Consumption	DC5V: 1W
System Requirements	Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html Mac OS X 10.12 and above, USB-C enabled computer Android 8.0 and later, USB-C enabled Smartphone with DP Alt Mode iOS 12.1 and above, iPad Pro 3rd generation (2018)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Aluminum
Weight	0.02 kg (0.04 lb)
Dimensions (L x W x H)	4.32 x 1.10 x 2.20 cm (1.70 x 0.43 x 0.87 in.)
Carton Lot	20 pcs

UC3002A

USB-C to VGA Adapter

OS Support Win, Mac, iPad Pro	Video In USB-C	Video Out VGA	Resolution 1920 x 1200	Bus-Powered
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Features

- Compliant with USB Type-C specification
- Transfers high-quality videos from a USB-C enabled laptop or smartphone to a 1920 x 1200@60Hz VGA display, or projector
- Premium casing can resist signal interference during video transmission and heat insulation
- Compact and lightweight design
- Works with all major operating systems: Windows®, OS X®, and iPad Pro® (USB-C)
- Plug-and-Play – no software required

UC485

USB to RS-422/485 Adapter

OS Support Win, Mac, Linux, Vista	USB 2.0	RS-232/485 Functionality	Bus-Powered
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Features

- Converts a USB port to a Legacy RS-422 or RS-485 COM port
- Fast COM Port Transmission – up to 921.6 Kbps
- Package included DB-9 female to terminal block adapter for easy wiring
- Supports Terminal / ECHO mode by mode selector
- Supports Windows Vista / 7 and above, Mac and Linux
- Plug and Play – no power supply needed

Specifications

	UC3002A
Video Input	
Interfaces	1 x USB-C Male (Black)
Video Output	
Interfaces	1 x HDB-15 Female (Black)
Video	
Max. Pixel Clock	148.5MHZ
Max. Resolution	1920 x 1200 @ 60Hz
Compliance	USB 3.2 Gen 1 Type-C with DP Alt Mode (Thunderbolt™ 3 Compatible) USB Billboard Device Class
Power Consumption	
	DC5V: 0.68W
System Requirements	
	Windows 10 and above, USB-C enabled computer with DP Alt Mode* *With Intel 7th-Generation Core Processor (Kaby-Lake) and above. More info about CPU generation, please find: https://www.intel.com/content/www/us/en/processors/processor-numbers.html Mac OS X 10.12 and above, USB-C enabled computer Android 8.0 and later, USB-C enabled Smartphone with DP Alt Mode iOS 12.1 and above, iPad Pro 3rd generation (2018)
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Aluminum
Weight	0.02 Kg (0.06 lb)
Dimensions (L x W x H)	3.95 x 1.40 x 9.60 cm (1.56 x 0.55 x 3.78 in.)
Carton Lot	20 pcs

Specifications

	UC485
Connectors	
USB Port	1 x USB Type-A Male (White)
Serial	1 x DB-9 Male (Silver)
Data Rate	
	Up to 921.6 Kbps
Cable Length	
	1.2 m
LEDs	
	Power Status / RS-422 (Orange), RS-485 (Green)
Power Mode	
	Bus-Powered
USB Specification	
	USB Compliant
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Dimensions (L x W x H)	0.09 kg (0.2 lb)
Weight	9.53 x 4.10 x 2.20 cm (3.75 x 1.61 x 0.87 in.)
Carton Lot	40 pcs
Included Accessories	
	1x Terminal Adapter

UC232B

USB to RJ-45 (RS-232) Console Adapter



Features

- Converts a USB port to RJ-45 Console port (RS-232)
- Supports straight RJ-45 cable, no need to use Rolled RJ-45 Cable for connecting Networking Router, modem or network switch for configuration
- Fast COM Port Transmission – up to 921.6 Kbps data transfer rate
- COM retention saves the assigned port settings for the device
- OS Compatibility: Windows, Mac, Linux
- Plug-and-Play – Small and lightweight make it a perfect travel companion
- No external power supply needed

Specifications

	UC232B
Connectors	
USB Port	1 x USB Type-A Male (White)
Serial	1 x RJ-45 Female (Silver)
Data Rate	Up to 921.6 Kbps
Cable Length	1.2 m
LEDs	Power Status
Power	
Power Mode	Bus-Powered
Consumption	DC5V: 0.2W
USB Specification	USB Compliant
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.06 kg (0.13 lb)
Dimensions (L x W x H)	2.56 x 5.84 x 2.23 cm (1.01 x 2.3 x 0.88 in.)
Carton Lot	20 pcs

UC232A / UC232A1

USB to RS-232 Adapter (35 cm) / USB to RS-232 Adapter (100 cm)



Features

- Supports the RS-232 Serial interface
- Up to 921.6 Kbps data transfer rate
- Full compliance with the USB specification
- OS Compatibility: Windows, Mac, Linux
- Works with cellular phones, PDAs, digital cameras, modems or ISDN terminal adapter

Specifications

	UC232A		UC232A1	
Connectors				
USB Port	1 x USB Type-A Male (White)			
Serial	1 x DB-9 Male (Silver)			
Data Rate	Up to 921.6 Kbps			
Cable Length	35 cm		1 m	
LEDs	Power (Orange)			
Power Mode	Bus-Powered			
USB Specification	USB Compliant			
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Plastic			
Weight	0.04 kg (0.09 lb)		0.06 kg (0.13 lb)	
Dimensions (L x W x H)	6.59 x 3.40 x 1.60 cm (2.59 x 1.34 x 0.63 in.)			
Carton Lot	40 pcs			

UC2322 / UC2324 / UC4852 / UC4854

2/4-Port USB to RS-232/RS-485/RS-422 Hub

OS Support

Win, Linux



Bus-Powered

Front

- UC2322 / UC4852

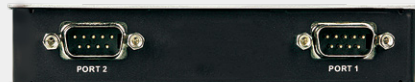


- UC2324 / UC4854



Rear

- UC2322 / UC4852



- UC2324 / UC4854



Features

- Easy way to add 2/4 serial ports
- Up to 115.2 Kbps data transfer rate for each serial port
- Supports RS-232 serial interface (UC2322 / UC2324)
- Supports RS-422 / RS-485 serial interface (UC4852 / UC4854)
- Dual data buffers for each upstream and downstream data transfer
- No IRQ, DMA, I/O address resources required
- Supports automatic handshake mode
- Supports both bus power and external power
- USB 2.0 compatible
- Supports hot-swapping and plug-and-play
- Built-in 16KV ESD protection
- Works with mobile phones, digital cameras, modems and ISDN terminal adapters
- OS support - Windows 2000 / 2003 / XP / NT

Specifications

	UC2322	UC2324	UC4852	UC4854
Device Connections	2	4	2	4
Connectors				
USB Port	1 x USB Type-B Female (White)			
Power	1 x DC Jack			
Serial	2 x DB-9 Male (Black)	4 x DB-9 Male (Black)	2 x DB-9 Male (Black)	4 x DB-9 Male (Black)
LEDs				
Ports	2 (Green)	4 (Green)	2 (Green)	4 (Green)
Power	1 (Orange)			
Data Rate	115.2 Kbps (max.)			
USB Specification	USB 2.0 Compatible			
Power Mode	Bus-Powered / Self-Powered by Optional Power Adapter			
Power Consumption	DC5V: 0.46W	DC5V: 0.4W	DC5V: 0.22W	DC5V: 0.50W
Environmental				
Operating Temperature	0 – 50°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Metal			
Weight	0.30 kg (0.66 lb)	0.32 kg (0.7 lb)	0.30 kg (0.66 lb)	0.32 kg (0.7 lb)
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)			
Carton Lot	20 pcs			
Included Accessories	1x USB Cable; 1x Installation Disk			

UC1284B

USB to IEEE1284 Printer Adapter (1.8 m)

OS Support

Win

 Bus-Powered



Features

- Converts the USB on PCs, laptop PCs and handheld computing devices into a parallel port for printer connection
- Fully bi-directional to ensure compatibility with today's latest printers
- 1 USB Type-A connector for standard USB cable connection
- 1 C-36 parallel connector
- Bus-powered
- Max. throughput: 1.2 Mbits / Sec (ECP Mode)
- OS Support: Windows 2000 / Windows XP / Windows Vista and Windows 7

Specifications

	UC1284B
Connectors	
USB Port	1 x USB Type-A Male (White)
Printer	1 x C-36 Male
Data Rate	1.2 Mbits / Sec
Cable Length	1.8 m
LEDs	N/A
Power	
Power Mode	Bus-Powered
Consumption	DC5V: 0.1W
USB Specification	USB Compliant
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Dimensions (L x W x H)	0.11 kg (0.24 lb)
Weight	5.30 x 4.30 x 1.95 cm (2.09 x 1.69 x 0.77 in.)
Carton Lot	40 pcs

USB Hubs

UH275 / UH284

4-Port USB 2.0 Hub

4-Port USB 2.0 Hub with Magnetic

OS Support

Win



USB 2.0



Bus-Powered

• UH275



• UH284



Features

- Compact design, easy to store anywhere
- Built-in magnet pad for quick mount and easy movement (UH284)
- Available in silver, black and burgundy (UH284)
- Provides 4 additional USB 2.0 ports to existing USB Systems
- 4 independent, fully functional, 480 Mbps downstream ports
- USB specification version 2.0 compliant
- Supports transfer rates of 1.5 / 12 / 480 Mbps
- Overcurrent protection
- Plug-and-play

Specifications

	UH275	UH284
Connectors		
USB Port	1 x USB Type-A Male (White)	1 x USB Mini Type-B Female (Black)
Downstream	4 x USB Type-A Female (White)	
Power	1x DC Jack (Black), optional	
USB Specification	USB 2.0 for High / Full speed	
LEDs		
Power	1 (Green)	
Output Voltage (Per Port)	DC 5V	
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.04 kg (0.09 lb)	
Dimensions (L x W x H)	9.00 x 3.85 x 1.20 cm (3.54 x 1.52 x 0.47 in.)	8.30 x 3.40 x 1.47 cm (3.27 x 1.34 x 0.58 in.)
Carton Lot	20 pcs	40 pcs
Included Accessories	1x Power Adapter*	1x USB Cable

Note: *Model with power adapter included only

HDMI Cables

High Speed True 4K HDMI Cable with Ethernet

ATEN's High Speed HDMI cable with Ethernet supports 18 Gbps data transfer rate, 4K UHD video resolution, 32 channels and HDR, and is HDCP 2.2 compliant, providing users with superior video and audio quality. The cable is compliant with the Premium 4K HDMI standard and is suitable for any device with an HDMI interface, whether it is a DVD player, set-top box, gaming computer or any HDMI display.



4K
Ultra HD

Superior Video
Quality

12:9

Wide-angle
Cinema



32 Audio
Channels

Enjoy Now

Create a High-Quality
Home Theater

CA101
1.2m

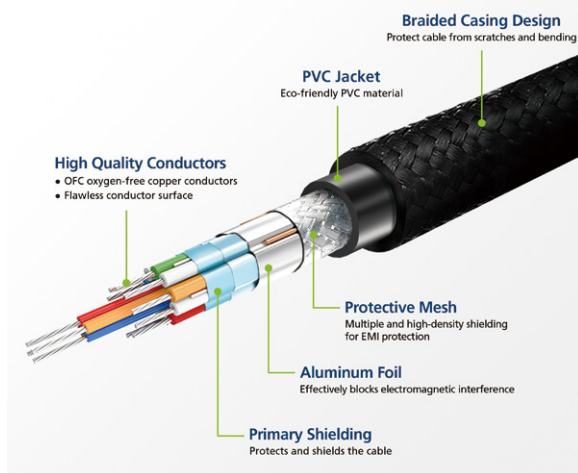
CA102
2m

CA103
3m

Ingenious Crafting of Mechanical Design



Ultra High Quality Comes from Design



CA101 / CA102 / CA103

High Speed HDMI Cable with Ethernet (1.2, 2, 3 m)



Features

- Superior video quality - up to True 4K (4096 x 2160 @ 60 Hz 4:4:4)
- HDMI Ethernet Channel functionality - additional dedicated data channel that supports networking*
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compliant
- Offers True 4K HDR visuals and true-to-life surround sound
- Supports bandwidth up to 18 Gbps
- Supports ARC (Audio Return Channel) to facilitate equipment installation and reduce the number of cables
- Supports 32 audio channels at sample rates up to 1536 kHz
- Gold-plated connectors for reliable data transmissions
- Multiple and high-density shielding for EMI protection
- Available in lengths from 1.2 to 3 m
- RoHS compliant

Note: The feature is only available if the connected devices are HDMI Ethernet Channel enabled.

Specifications

	CA101	CA102	CA103
Max. Video Resolution	4096 x 2160 @ 60Hz		
Physical Properties			
Cable Length	1.2 m	2 m	3 m
Cable Color	Black		
Cable Outer Dimension	6.0 ± 0.15mm		
Conductor Gauge	30AWG		
Conductor Material	Tinned Copper		
Connector Plating	Gold		
Connector Type	HDMI (19pin) Male to Male		
Cable Shield Type	Aluminum Foil		
Cable Jacket Type	PVC with braided clothing		
Environmental			
Operating Temperature	80°C		
Rating	UL VW-1 (Flame rate), CSA		

USB Extenders

UE3310 / UE3315A

10 m / 15 m USB 3.2 Gen 1 Extender

OS Support
Win, Mac

USB 3.2
Gen 1

10 m
Long
Distance
Transmission

15 m
Long
Distance
Transmission

Bus-
Powered



Features

- Daisy-chainable, maximum distance of up to 50 m (UE3310) / 30 m (UE3315A)
- USB 3.2 Gen 1 and 2.0 compatible
- Ultra slim design and unique locker head design
- Multiplatform support – Windows and Mac
- Additional power adapter included

UE350A

5 m USB 3.2 Gen 1 Extender

OS Support
Win, Mac

USB 3.2
Gen 1

Bus-
Powered



Features

- Extends the distance of one USB device up to 5 m
- USB 3.2 Gen 1 and 2.0 compatible
- Supports USB super-speed (5 Gbps)
- Plug and play – no additional software installation required
- Multiplatform support – Windows and Mac
- Bus-Powered*

Note: * Some USB devices may require a separate power adapter

Specifications

	UE3310		UE3315A	
Connectors				
USB Port	1 x USB 3.2 Gen 1 Type-A (Male)			
Downstream	1 x USB 3.2 Gen 1 Type-A (Female)			
USB Specification	USB3.2 Gen1 / 2.0 / 1.1 for Super / High / Full speed			
Cable Length	10 m		15 m	
Data Rate	Up to 5 Gbps			
Power				
Power Mode	Bus-Powered / Self-Powered			
Consumption	DC5V: 0.6W			
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Plastic			
Weight	0.76 kg (1.67 lb)		1.19 kg (2.62 lb)	
Dimensions (L x W x H)	8.19 x 2.22 x 1.75 cm (3.22 x 0.87 x 0.69 in.)		8.19 x 2.22 x 1.75 cm (3.22 x 0.87 x 0.69 in.)	
Carton Lot	5 pcs			
Included Accessories	1x AC Power Adapter; 1x USB Extension Cable			

Specifications

	UE350A
Connectors	
USB Port	1 x USB Type-A Male
Downstream	1 x USB Type-A Female
USB Specification	USB 3.2 Gen 1 / 2.0 for High / Full speed
Cable Length	5 m
Data Rate	Up to 5 Gbps
Power	
Power Mode	Bus-Powered
Power Consumption	DC5V: 0.24W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.22 kg (0.48 lb)
Dimensions (L x W x H)	6.02 x 4.00 x 2.40 cm (2.45 x 1.57 x 0.94 in.)
Carton Lot	10 pcs

UE250

5 m USB 2.0 Extender (Daisy-chaining up to 25 m)



Features

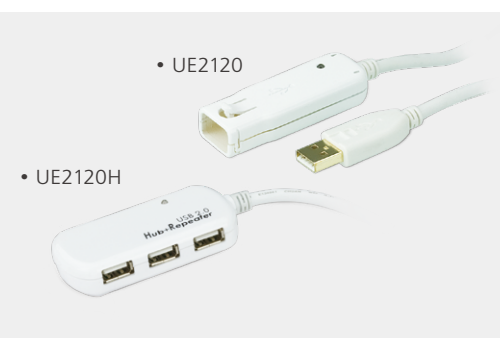
- Extends one USB device up to 5 m
- USB 2.0 compliant
- USB IF approved
- Fully compliant with USB electrical and timing specs for USB hubs
- Multiplatform support – Windows and Mac
- Bus-powered

Specifications

	UE250
Connectors	
Device	USB Type-A Male; USB Type-A Female
LEDs	
Link	1 (Green)
Overcurrent	1 (Red)
USB Specification	USB 2.0 for High / Full speed
Driver Support	Native Driver Support
Power	
Power Mode	Bus-Powered
Power Consumption	DC5V: 0.23W
Data Rate	Up to 480 Mbps
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.20 kg (0.44 lb)
Dimensions (L x W x H)	6.02 x 4.00 x 2.40 cm (2.45 x 1.57 x 0.94 in.)
Carton Lot	20 pcs

UE2120 / UE2120H

12 m USB 2.0 Extender (Daisy-chaining up to 60 m) 12 m 4-Port USB 2.0 Extender (Daisy-chaining up to 60 m)



Features

- Extends USB device up to 12 m
- 12M 4-port USB 2.0 Extender (Daisy-chaining up to 60m)
- Up to 4 extender cables (UE2120) and 1 Extender Hub (UE2120H) can be chained for a distance of up to 60 meters
- 4 downstream USB 2.0 ports (UE2120H only)
- Lockable mechanical design for secure connection (UE2120 only)
- Bus powered – no power adapter required
- Multiplatform support – Windows and Mac
- Plug and play – no additional driver required

Specifications

	UE2120		UE2120H	
Connectors				
USB Port	1 x USB Type-A Male			
Downstream	1 x USB Type-A Female	4 x USB Type-A Female		
LEDs	1 (Green)			
USB Specification	USB 2.0 for High / Full Speed			
Cable Length	12 m			
Power Mode	Bus-Powered			
Environmental				
Operating Temperature	0 – 40°C			
Storage Temperature	-20 – 60°C			
Humidity	0 – 80% RH, Non-condensing			
Physical Properties				
Housing	Plastic			
Weight	0.56 kg (1.23 lb)	0.63 kg (1.39 lb)		
Dimensions (L x W x H)	6.40 x 2.20 x 1.30 cm (2.52 x 0.87 x 0.51 in.)	8.20 x 4.10 x 1.70 cm (3.23 x 1.61 x 0.67 in.)		
Carton Lot	20 pcs			

UCE32100

4-Port USB 2.0 Cat 5 Extender (100 m)

OS Support
Win, Mac, Linux

USB 2.0

USB
Lossless

Transparent
USB Support



Features

- True USB 2.0 transparent extension over CAT 5 cabling up to 100 meters
- Supports all USB 2.0 devices up to 480Mbps
- USB Lossless – Higher compatibility of remote USB devices
- An integrated four port hub allows for extension of up to four USB devices without the need for an additional hub
- Power supply for remote unit to ensure power delivery to multiple devices at once
- Compact size with wall mounting and din rail included for flexible installation
- DC jack lock kit included to ensure durable power adapter connection
- Supports Windows®, OS X®, and Linux®
- Plug and play – no additional driver required

UCE260

USB 2.0 Cat 5 Extender (up to 60 m)

OS Support
Win, Mac

USB 2.0



Features

- Extends signal transmission distance of a USB devices up to 60 m via a Cat 5 / 5e / 6 cable
- USB specification version 2.0 compliant
- Supports hot plug and no software driver required
- The most cost-effective USB extender solution
- Includes an AC adapter to stabilize power supply

Specifications

	UCE32100
Local Unit	
Upstream Port	1 x USB Type-B Female
Downstream Port	1 x RJ-45 Female; 1 x Micro USB Female
Power	1 x DC Jack
Remote Unit	
Upstream Port	1 x RJ-45 Female
Downstream Port	4 x USB Type-A Female; 1 x Micro USB Female
Power	1 x DC Jack
USB Specification	USB 2.0 High-Speed
Cable Type	Cat 5 UTP Cable
Signal Range	100 m
LEDs	2 x LED
Power Consumption	DC5V: 1.708W; DC5V: 1.649W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 70°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.21 kg (0.46 lb)
Dimensions (L x W x H)	10.15 x 7.90 x 2.44 cm (4 x 3.11 x 0.96 in.)
Carton Lot	5 sets
Included Accessories	1x USB 2.0 Type-A Male to Type-B Male Cable; 1x Power Adapter; 1x Power Cord; 4x Mounting Kit; 2x Din Rail; 2x DC Jack Lock Kit; 2x Rubber Feet Sets

Specifications

	UCE260L	UCE260R
Connectors		
USB Port	1 x USB Type-A Male	1 x USB Type-A Female
Link	1 x RJ-45 Female	
Power	N/A	1 x DC Power Jack
USB Specification	USB 2.0 for High / Full speed	
USB Devices Supported	N/A	1 Device
Power Consumption	DC5V: 0.65W	DC5V: 0.95W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.04 kg (0.09 lb)	0.02 kg (0.05 lb)
Dimensions (L x W x H)	6.30 x 3.10 x 2.19 cm (2.48 x 1.22 x 0.86 in.)	6.30 x 3.10 x 2.19 cm (2.48 x 1.22 x 0.86 in.)
Carton Lot	20 pcs	
Included Accessories	1x Power Adapter (5V, 2.6A);1x Remote Unit	

UCE60

USB Cat 5 Extender (up to 60 m)



Features

- Extends one USB device up to 60 m via a Cat 5 / Cat 5e / 6 cable
- USB 2.0 full speed compliant
- Provides support for any full-speed (12 Mb/s) or low speed (1.5 Mb/s) USB devices
- LED indicates when additional external power supply needed
- Embedded USB transceivers prevent signal loss
- Lowest cost solution for extending USB signals
- No additional installation software required
- Multiplatform support – Windows and Mac

UCE3250

4-Port USB 2.0 Cat 5 Extender (up to 50 m)



Features

- Extension distance of up to 50 m over a Cat 5 / 5e / 6 cable
- USB specification version 2.0 compliant
- USB Lossless-Higher compatibility of remote USB devices
- Metal mechanical with wall mount design supports industrial deployment
- Supports Windows®, OS X®, and Linux®
- Plug and play

Specifications

	UCE60L	UCE60R
Connectors		
USB Port	1 x USB Type-A Male (White)	1 x USB Type-A Female (White)
Link	1 x RJ-45 Female	
Power	N/A	1 x DC Jack (Optional)
USB Specification2.0 Full / Low Speed		
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-40 – 85°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.03 kg (0.09 lb)	0.02 kg (0.05 lb)
Dimensions (L x W x H)	6.30 x 3.10 x 2.19 cm (2.48 x 1.22 x 0.86 in.)	6.30 x 3.10 x 2.19 cm (2.48 x 1.22 x 0.86 in.)
Carton Lot	20 pcs	

Specifications

	UCE3250L	UCE3250R
Connectors		
USB Port	1 x USB Type-B Female	4 x USB Type-A Female
Link	1 x RJ-45 Female	
Power	N/A	1 x DC Jack
USB Specification	USB 2.0 for High / Full speed	
USB Devices Supported	N/A	4 Devices
Power Consumption	Bus-Powered	Self-Powered; DC5V: 13W
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 70°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.09 kg (0.2 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	6.70 x 6.02 x 2.37 cm (2.64 x 2.37 x 0.93 in.)	6.33 x 11.04 x 2.41 cm (2.49 x 4.35 x 0.95 in.)
Carton Lot	5 sets	
Included Accessories	1x USB Type-A Male to Type-B Male Cable; 1x Power Adapter	

UEH4102

4-Port USB 2.0 Cat 5 Extender over LAN



Features

- Extends USB transmission over a Gigabit Ethernet Local Area Network (LAN)
- ExtremeUSB® – supports transparent USB 2.0 signals and true plug-and-play (no software or drivers required)
- Pre-paired networked configuration through MAC Address for simple installation. No pairing action required
- Supports automatic connection link between Local and Remote units through DHCP
- Up to 100 m between extender and switch and between switches over Cat 5e / 6 / 7 cables
- Operates with all USB peripherals - flash drives, keyboards, mice, webcams, interactive whiteboards, and more
- Works with all major operating systems: Windows®, OS X®, and Linux®

Specifications

	UEH4102L	UEH4102R
Connectors		
USB Port	1 x USB Type-B Female	4 x USB Type-A Female
Link	1 x Gigabit Ethernet Female	
Power	N/A	1 x DC Power Jack
USB Specification	USB 2.0 High/Full/Low Speed	
USB Devices Supported	N/A	4 USB Devices
Power Consumption	Bus-Powered	DC5V: 15W
Network Protocol	10/100/1000BASE-T Ethernet (recommend 1000BASE-T Ethernet for best performance)	
Environmental		
Operating Temperature	0 – 50° C	
Storage Temperature	-20 – 70°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.19 kg (0.42 lb)	0.19 kg (0.42 lb)
Dimensions (L x W x H)	10.00 x 7.60 x 2.60 cm (3.94 x 2.99 x 1.02 in.)	
Carton Lot	5 sets	
Included Accessories	1x Power Adapter; 1x USB 2.0 Type-A to Type-B Cable	

UEH4002A

4-Port USB 2.0 Cat 5 Extender (up to 100 m)



Features

- Extends USB transmission distance up to 100 m
- Supports all USB 2.0 devices
- ExtremeUSB® – supports transparent USB 2.0 signals and true plug-and-play (no software or drivers required)
- Fully compliant with USB Electrical and timing specs for USB hubs
- Works with all major operating systems: Windows®, OS X®, and Linux®

Specifications

	UEH4002AL	UEH4002AR
Connectors		
USB Port	1 x USB Type-B Female	4 x USB Type-A Female
Link	1 x RJ-45 Female	
Power	N/A	1 x DC Power Jack
USB Specification	USB 2.0 High / Full Speed	
USB Devices Supported	N/A	4 USB Devices
Power Mode	Bus-Powered	DC5V:15W
Signal Range	100 m	
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 70°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	
Weight	0.38 kg (0.84 lb)	
Dimensions (L x W x H)	10.00 x 7.60 x 2.60 cm (3.94 x 2.99 x 1.02 in.)	
Carton Lot	5 sets	
Included Accessories	1x Power Adapter; 1x USB 2.0 Type-A to Type-B Cable (1.8 m)	

Data Communication

Creating a connection between two interfaces is no longer a problem with the ATEN range of reliable, cost-efficient, bi-directional converters. These are extremely useful in situations in which the only port available uses an interface that is different from the device to which you need to connect.



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Data Communication

• Printer Network

Simultaneous printing capability.

• RS-232 to RS-422 / RS-485 Bi-Directional Converter

RS-232 to RS-422/RS-485 converters for data transmission.

• Serial PCI Card

RS-232 / RS-422 / RS-485 converters and extenders are heavily represented in many enterprise fields.

- Telecommunications industry
- Automated teller machines
- Airport check-in and flight schedule display systems
- Automatic postal machines

Note:

The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.

Feature Comparison

Model No.	IC164T	IC164R
Input	1 x DB-25	1 x RJ-11 (F, 6P4C)
Output	1 x RJ-11 (F, 6P4C)	1 Centronics C-36
Output Port Selection	N/A	N/A
Timeout Selection (Sec.)	N/A	N/A
Signal Range	400 m	400 m
First-Come-First-Served	N/A	N/A
Bus-Powered	•	•
Baud Rates	21 K	21 K

Model No.	IC485S	IC485SI	IC485SN
Input	1 x DB-25	1 x DB-25	1 x DB-25
Output	RS-485 / RS-422 Four Terminal Block		
RJ-11 Connector	•	N/A	•
Grounding Tab	N/A	•	N/A
DCE / DTE Selectable	•	•	•
Monitor Configuration	•	N/A	N/A
Signal / Power Isolation	N/A	•	N/A
2000V Surge Protection	N/A	N/A	N/A
Operation Mode	Point to Point, Multidrop, Simplex		
Bus-Powered	N/A	N/A	•
Signal Range	1200 m	1200 m	1200 m
Baud Rates	115.2 K	115.2 K	115.2 K

IC164

Non-Powered / High Speed Parallel Data Extender



Features

- Extends the distance between your parallel peripherals and the PC up to 400 m
- Uses RJ-11 cable to connect the transmitter and receiver units
- Easy to install and operate
- No external power adapter required
- Compact size

Specifications

	IC164R (Receiver)	IC164T (Transmitter)
Connectors	1 x C-36 Male 1 x RJ-11 Jack Female	1 x DB-25 Male 1 x RJ-11 Jack Female
Power (Optional)	DC9V: 0.4W (Min.)	
Data Rate	21 Kbytes / Sec.	
Cable Type	4 Wire Telephone Line	
Cable Length	400 m [1300'] (Max.)	
Power (Optional)	DC9V: 0.4W (Min.)	
Environmental		
Operating Temperature	0 – 50°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-condensing	
Physical Properties		
Housing	Plastic	
Weight	0.05 kg (0.11 lb)	
Dimensions (L x W x H)	7.60 x 6.20 x 2.68 cm (2.99 x 2.44 x 1.06 in.)	
Carton Lot	20 sets	
Included Accessories	1x RJ-11 4-wire telephone cable	

IC485S / IC485SI / IC485SN

RS-232 / RS-485 Interface Converter

OS Support

Win



Bus-Powered

(IC485SN)



- ### Features
- Monitor configuration support (IC485S)
 - Signal and power isolation support (IC485SI)
 - Non-powered operation (IC485SN)
 - Data transmission controlled by the RTS signal
 - DCE / DTE selectable
 - Point-to-Point, multidrop and simplex / duplex link selection
 - Compact size
 - Cable distance up to 1200 m
 - Supports baud rates up to 115.2 Kbps

Specifications

	IC485S	IC485SI	IC485SN
Connectors	1 x DB-25 Female (RS-232) RS-485 / RS-422 Four Terminal Block 1x RJ-11 Female	1 x DB-25 Female (RS-232) RS-485 / RS-422 Four Terminal Block Grounding Tab	1 x DB-25 Female (RS-232) RS-485 / RS-422 Four Terminal Block 1x RJ-11 Female
Power Consumption	DC9V: 0.82W	DC9V: 0.81W	DC9V: 0.03W
Data Rate	Up to 100 Kbps under 1200 m [4000']		
Signal Range	1200 m [4000'] (Max.)		
Environmental			
Operating Temperature	0 – 50°C		
Storage Temperature	-20 – 60°C		
Humidity	0 – 80% RH, Non-condensing		
Physical Properties			
Housing	Plastic		
Weight	0.05 kg (0.11 lb)	0.06 kg (0.13 lb)	
Dimensions (L x W x H)	7.90 x 5.45 x 2.10 cm (3.11 x 2.15 x 0.83 in.)		
Carton Lot	20 pcs		10 pcs
Included Accessories	1x Power Adapter		N/A

KVM Modules & Included Accessories

Converters / Emulators

ATEN provides a series of KVM switches that feature multiplatform support. In addition, we offer a host of converters to enable your KVM switches to support Windows, Linux, and Mac computers. By using ATEN converters, you eliminate the high cost and downtime associated with replacing KVM switches.

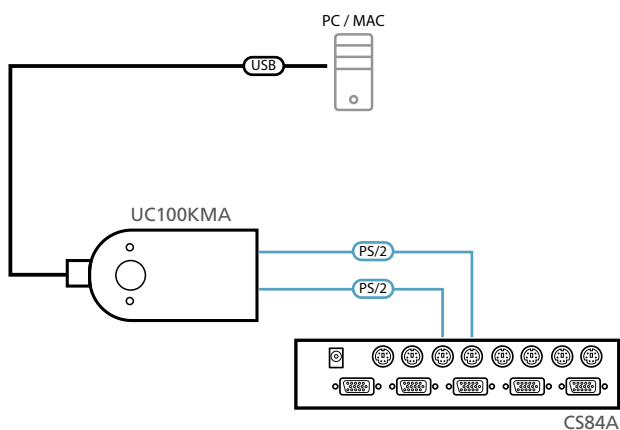


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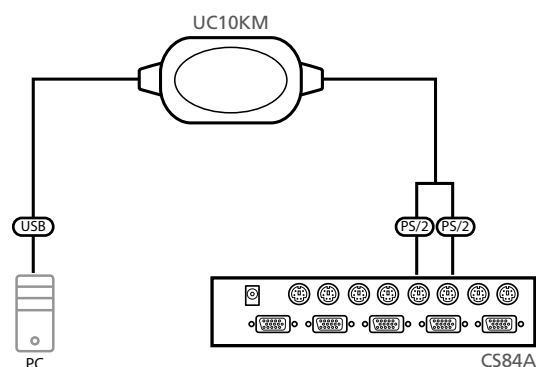
KVM Modules & Included Accessories

• USB Converters

For PC / Mac / Sun >



For PC only >



Note :

* Custom KVM cables are available in various lengths. Please refer to page 17-9

CV10KM

USB to PS/2 Converter



Features

- Converts USB keyboard and mouse signals into PS/2 signals
- Compatible with all KE / CN / RCM series transmitters
- USB 2.0 compliant
- Embeds pushbutton for firmware upgrade
- Multiplatform support – Windows and Linux
- Bus Powered (via the USB and PS/2 cables)
- Plug and play

CV190

DisplayPort Console Converter



Features

- Compatible with SPHD-interfaced KVM switch to work with DisplayPort and USB-enabled target computers
- Supports high video resolution – up to 1920 x 1080 @ 60Hz
- DisplayPort 1.1 compliant
- Supports USB keyboard and mouse
- Bus-powered – no external power adapter required
- Easy installation – no software required

Specifications

	CV10KM
Connectors	
Keyboard	1 x PS/2 6-pin Mini-DIN Male (Purple) 1 x USB Type A Female (Purple)
Mouse	1 x PS/2 6-pin Mini-DIN Male (Green) 1 x USB Type A Female (Green)
Power (Optional)	1 x USB Type A Male (Black)
Cable Length	80 cm
Reset Button	1 x Push Button
Platforms	Windows / Linux
USB Specification	USB 1.1 - 2.0 (Full speed & Low speed) Compatible
Power Mode	Bus Powered (via the USB and PS/2 cables)
Power Consumption	DC5V: 0.2W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.11 kg (0.24 lb)
Dimensions (L x W x H)	8.45 x 3.40 x 2.21 cm (3.33 x 1.34 x 0.87 in.)
Carton Lot	10 pcs

Specifications

	CV190
Console Connections	1
Connectors	
To Computer	1 x USB Type A Male 1 x DisplayPort Male
To Switch	1 x SPHD Male
LEDs	
Status	1 (Green: USB & DP Power) 1 (Orange: USB Power)
Video	1920 x 1080 @ 60Hz
Power Consumption	DC5V: 1.01W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.21 kg (0.46 lb)
Dimensions (L x W x H)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)
Cable Length	1.8 m
Carton Lot	40 pcs

UC10KM

PS/2 to USB Adapter (90 cm)



Features

- Two PS/2 devices (keyboard and mouse) to USB Interface converter
- Supports PS/2 mice and Microsoft IntelliMouse
- Compatible with KVM switches
- USB 1.1 compliant
- Easy installation – no software required
- OS Support: Windows, Mac, Linux Redhat 7.0 or higher
- Bus-Powered

UC100KMA

PS/2 to USB Adapter with Mac Support (30 cm)



Features

- Two PS/2 devices (keyboard and mouse) to USB Interface converter
- Supports PS/2 mice and Microsoft IntelliMouse
- Compatible with KVM switches
- USB specification compliant
- Easy installation – no software required
- Hotkey selection for OS and keyboard language supports
- OS Support: Windows 2000, Windows XP, Windows Vista, LINUX, Mac, Sun and FreeBSD
- External power adapter not required

Specifications

	UC10KM
Connectors	
USB Port	1 x USB Type A Male (Black)
PS/2 Keyboard	1 x 6-pin Mini-DIN Female (Purple)
PS/2 Mouse	1 x 6-pin Mini-DIN Female (Green)
Cable Length	90 cm
Platforms	Windows / Mac / Linux
Data Rate	12 Mbps
USB Specification	USB 1.1 Compatible
Power Mode	Bus-Powered
Power Consumption	DC5V: 0.09W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.06 kg (0.13 lb)
Dimensions (L x W x H)	1.50 x 3.70 x 1.10 cm (0.59 x 1.46 x 0.43 in.)
Carton Lot	40 pcs

Specifications

	UC100KMA
Connectors	
USB Port	1 x USB Type A Male (White)
PS/2 Keyboard	1 x 6-pin Mini-DIN Female (Purple)
PS/2 Mouse	1 x 6-pin Mini-DIN Female (Green)
LEDs	
Link	2 (Green)
Cable Length	30 cm
Platforms	Windows 2000 / XP/ Vista / Linux Mac OS 8.6 or Higher SUN Solaris 8
Data Rate	12 Mbps
Power Mode	Bus-Powered (via the USB cable)
Power Consumption	DC5V: 0.374W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Plastic
Weight	0.08 kg (0.18 lb)
Dimensions (L x W x H)	9.15 x 4.70 x 2.50 cm (3.6 x 1.85 x 0.98 in.)
Carton Lot	40 pcs

KVM Adapter Cables (CPU Modules) & Cables

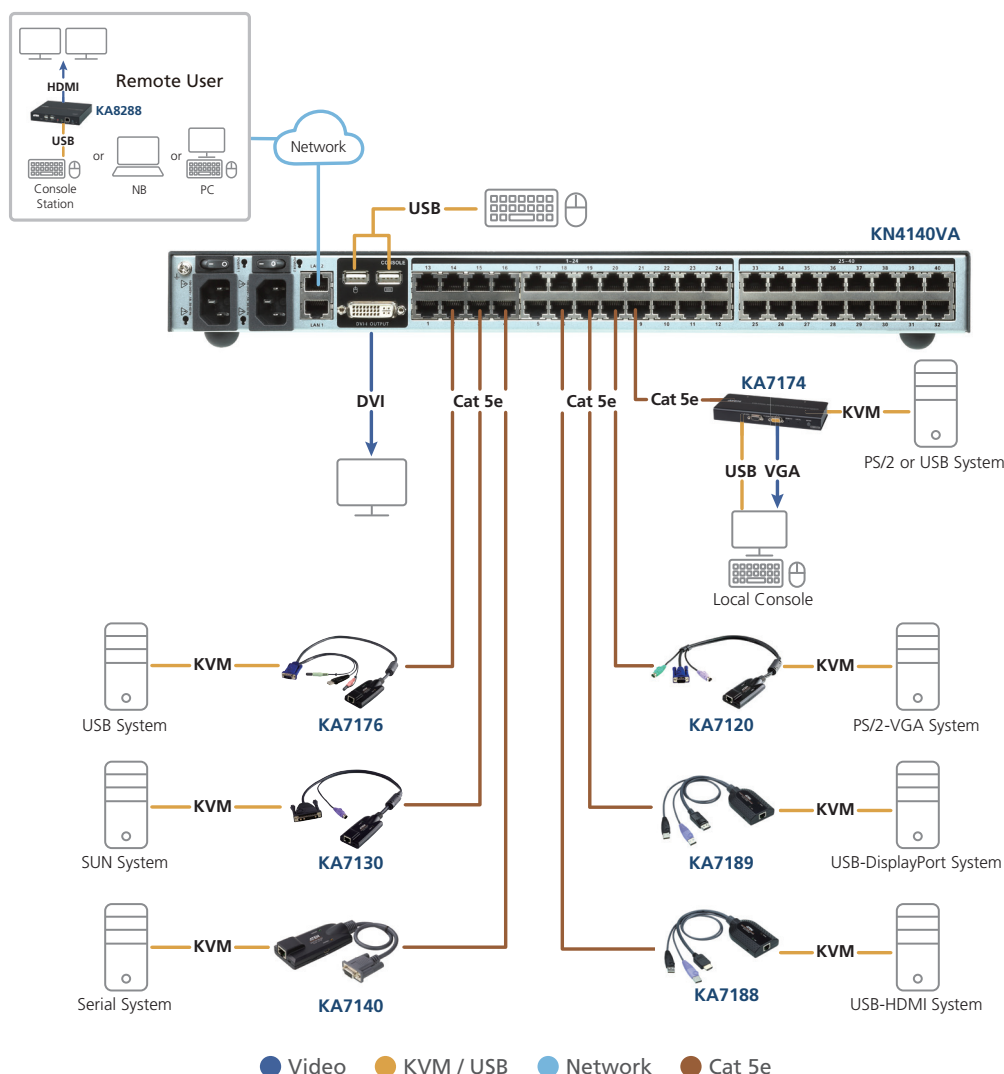
KA7120 • KA7130 • KA7140 • KA7166 • KA7168 • KA7169 • KA7170 • KA7174 • KA7175 • KA7176 • KA7177 • KA7178 • KA7183 • KA7188 • KA7189 • KA7520 • KA7570 • KA7920 • KA7970 • KA9140

ATEN KVM adapter cables connect the computers via Cat 5e/6 cable to the KVM switches. This provides high quality data transmissions over longer distances without the need of extenders.

Utilizing KVM adapter cables for the connection permits any combination of Windows, Mac and Sun computers and serial devices to easily co-exist on the same installation. KVM adapters are light and small, so fit perfectly into almost any rack-mount location.




- Keyboard and mouse emulation – keeps your server functioning smoothly when it is disconnected from the switch's KVM port or relocated to a different KVM port
- Firmware upgradable
- Built-in ASIC for greater reliability and compatibility
- CPU module designed with automatic conversion to allow for flexible interface combinations to control all server types
- Built-in 4.5m Cat 5 cable (KA7920 / KA7970)
- High video quality (KA7xxx series) – supports VGA, DVI, HDMI and DisplayPort interface
- Compact size
- Supports VT100 (KA7140 / KA9140)
- Supports local console (KA7174)
- Supports digital audio (KA7188 / KA7189)

Note: The features highlighted above are not available in all products. Please refer to each product page for more details. Product information is subject to change without prior notice.



Note: *Refer to page 7-28 for details.

KVM Adapter Cables (CPU Modules)

Type	PS/2			Sun Legacy
Model	PS/2 VGA KVM Adapter Cable	PS/2 VGA KVM Adapter Cable	PS/2 VGA KVM Adapter Cable	Sun Legacy KVM Adapter Cable
	KA7120	KA7520	KA7920	KA7130
				
Connectors				
Link	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Male with 4.5m Cat 5 cable	1 x RJ-45 Female
Computer	1 x HDB-15 Male 2 x Min Din 6 Male	1 x HDB-15 Male 2 x Min Din 6 Male	1 x HDB-15 Male 2 x Min Din 6 Male	1 x 13W3 Male 1 x Min Din 8 Male
LEDs				
Online / Link	1 (Green)	1 (Green)	1 (Orange)	1 (Green)
Power	1 (Orange)	1 (Orange)	N/A	1 (Orange)
Emulation				
Keyboard / Mouse	PS/2	PS/2	PS/2	Sun
Physical Properties				
Housing	Plastic	Plastic	Plastic	Plastic
Weight	0.15 kg (0.33 lb)	0.14 kg (0.31 lb)	0.25 kg (0.55 lb)	0.16 kg (0.35 lb)
Body Dimensions (L x W x H)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	7.93 x 3.70 x 1.55 cm (3.12 x 1.46 x 0.61 in.)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)
Carton Lot	40 pcs	40 pcs	20 pcs	40 pcs

Compatible KVM Switch				
Model No.	KA7120	KA7520	KA7920	KA7130
KH1508A / KH1516A / KH1532A	•	•	•	•
KH2508A / KH2516A	•	•	•	•
KL1508A / KL1516A	•	•	•	•
KL1108V / KL1116V	•	N/A	N/A	•
KL1508Ai / KL1516Ai	•	•	•	•
KH1508Ai / KH1516Ai	•	•	•	•
KN1108V / KN1116V	•	N/A	N/A	•
KN1108VA / KN1116VA	•	N/A	N/A	•
KN2124VA / KN2140VA / KN4124VA / KN4140VA	•	N/A	N/A	•
KN1132V / KN2116VA / KN2132VA / KN4116VA / KN4132VA / KN4164V / KN8132V / KN8164V	•	N/A	N/A	•
KM0932 / KM0532 / KM0032**	•	N/A	N/A	•
(KN2116A / KN2132 / KN4116 / KN4132 / KN2116v / KN2132v / KN4116v / KN4132v / KN2124v / KN2140v / KN4124v / KN4140v)**	•	N/A	N/A	•



Note:

*Virtual Media & CAC Reader features support will depend on the functionality of the connected KVM switch.

Please refer to www.aten.com for more details.

**Product specifications and appearance are subject to change without notice.

KVM Adapter Cables (CPU Modules)

Type	USB					
Model	USB VGA KVM Adapter Cable	USB VGA KVM Adapter Cable	USB VGA KVM Adapter Cable	USB DVI Virtual Media KVM Adapter Cable with Smart Card Reader	USB HDMI Virtual Media KVM Adapter Cable with Smart Card Reader	USB DisplayPort Virtual Media KVM Adapter Cable with Smart Card Reader
	KA7170	KA7570	KA7970	KA7166	KA7168	KA7169
						
Connectors						
Link	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Male with 4.5m Cat 5 cable	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Female
Computer	1 x USB Type A Male 1 x HDB-15 Male	1 x USB Type A Male 1 x HDB-15 Male	1 x USB Type A Male 1 x HDB-15 Male	2 x USB Type A Male 1 x DVI-D Male	2 x USB Type A Male 1 x HDMI Male	2 x USB Type A Male 1 x DisplayPort Male
LEDs						
Online / Link	1 (Green)	1 (Green)	1 (Orange)	1 (Green)	1 (Green)	1 (Green)
Power	1 (Orange)	1 (Orange)	N/A	1 (Orange)	1 (Orange)	1 (Orange)
Emulation						
Keyboard / Mouse	USB	USB	USB	USB	USB	USB
Physical Properties						
Housing	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Weight	0.14 kg (0.31 lb)	0.15 kg (0.33 lb)	0.24 kg (0.53 lb)	0.14 kg (0.31 lb)	0.11 kg (0.24 lb)	0.11 kg (0.24 lb)
Body Dimensions (L x W x H)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	7.93 x 3.70 x 1.55 cm (3.12 x 1.46 x 0.61 in.)	9.10 x 5.60 x 2.12 cm (3.58 x 2.2 x 0.83 in.)	9.10 x 5.60 x 2.12 cm (3.58 x 2.2 x 0.83 in.)	9.10 x 5.60 x 2.12 cm (3.58 x 2.2 x 0.83 in.)
Carton Lot	40 pcs	40 pcs	20 pcs	40 pcs	40 pcs	40 pcs

Compatible KVM Switch*						
Model No.	KA7170	KA7570	KA7970	KA7166	KA7168	KA7169
KH1508A / KH1516A KH1532A	•	•	•	•	•	•
KH2508A / KH2516A	•	•	•	•	•	•
KL1508A / KL1516A	•	•	•	•	•	•
KL1108V / KL1116V	•	N/A	N/A	•	•	•
KL1508Ai / KL1516Ai	•	•	•	•	•	•
KH1508Ai / KH1516Ai	•	•	•	•	•	•
KN1108V / KN1116V	•	N/A	N/A	•	•	•
KN1108VA / KN1116VA	•	N/A	N/A	•	•	•
KN2124VA / KN2140VA KN4124VA / KN4140VA	•	N/A	N/A	•	•	•
KN1132V / KN2116VA KN2132VA / KN4116VA KN4132VA / KN4164V KN8132V / KN8164V	•	N/A	N/A	•	•	•
KM0932 / KM0532 / KM0032**	•	N/A	N/A	N/A	N/A	N/A
(KN2116A / KN2132 KN4116 / KN4132 KN2116v / KN2132v KN4116v / KN4132v KN2124v / KN2140v KN4124v / KN4140v)**	•	N/A	N/A	•	•	•








Note:

*Virtual Media & CAC Reader features support will depend on the functionality of the connected KVM switch.

Please refer to www.ATEN.com for more details.

**Product specifications and appearance are subject to change without notice.

KVM Adapter Cables (CPU Modules)

Type	USB						
Model	USB VGA Virtual Media KVM Adapter Cable	USB VGA/Audio Virtual Media KVM Adapter Cable	USB VGA Virtual Media KVM Adapter Cable with Smart Card Reader	USB VGA/Audio Virtual Media KVM Adapter Cable with Dual Output	USB-C Virtual Media KVM Adapter	USB HDMI Virtual Media KVM Adapter Cable with Smart Card Reader and Audio De-Embedder	USB DisplayPort Virtual Media KVM Adapter Cable with Smart Card Reader and Audio De-Embedder
	KA7175	KA7176	KA7177	KA7178	KA7183	KA7188	KA7189
							
Connectors							
Link	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Female	2 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Female
Computer	1 x USB Type A Male 1 x HDB-15 Male	1 x USB Type A Male 1 x HDB-15 Male 2 x Mini Stereo Plug	2 x USB Type A Male 1 x HDB-15 Male	1 x USB Type A Male 1 x HDB-15 Male 2 x Mini Stereo Plug	1 x USB Type C Male	2 x USB Type A Male 1 x HDMI Male	2 x USB Type A Male 1 x DisplayPort Male
LEDs							
Online / Link	1 (Green)	1 (Green)	1 (Green)	2 (Green)	1 (Green)	1 (Green)	1 (Green)
Power	1 (Orange)	1 (Orange)	1 (Orange)	1 (Orange)	1 (Orange)	1 (Orange)	1 (Orange)
Emulation							
Keyboard / Mouse	USB	USB	USB	USB	USB	USB	USB
Physical Properties							
Housing	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Weight	0.15 kg (0.33 lb)	0.17 kg (0.37 lb)	0.16 kg (0.35 lb)	0.17 kg (0.37 lb)	0.07 kg (0.15 lb)	0.11 kg (0.24 lb)	0.12 kg (0.26 lb)
Body Dimensions (L x W x H)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)	9.10 x 5.60 x 2.12 cm (3.58 x 2.2 x 0.83 in.)	9.10 x 5.60 x 2.12 cm (3.58 x 2.2 x 0.83 in.)	9.10 x 5.60 x 2.14 cm (3.58 x 2.2 x 0.84 in.)	9.10 x 5.60 x 2.14 cm (3.58 x 2.2 x 0.84 in.)
Carton Lot	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs	40 pcs

Compatible KVM Switch*							
Model No.	KA7175	KA7176	KA7177	KA7178	KA7183	KA7188	KA7189
KH1508A / KH1516A / KH1532A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KH2508A / KH2516A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KL1508A / KL1516A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KL1108V / KL1116V	•	•	•	•	N/A	N/A	N/A
KL1508Ai / KL1516Ai	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KH1508Ai / KH1516Ai	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KN1108V / KN1116V	•	•	•	N/A	N/A	N/A	N/A
KN1108VA / KN1116VA	•	•	•	•	•	•	•
KN2124VA / KN2140VA KN4124VA / KN4140VA	•	•	•	•	•	•	•
KN1132V / KN2116VA KN2132VA / KN4116VA KN4132VA / KN4164V KN8132V / KN8164V	•	•	•	•	•	•	•
KM0932 / KM0532 KM0032*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(KN2116A/ KN2132 KN4116 / KN4132 KN2116v / KN2132v KN4116v / KN4132v KN2124v / KN2140v KN4124v / KN4140v)*	•	•	•	N/A	N/A	N/A	N/A

Note:

*Virtual Media & CAC Reader features support will depend on the functionality of the connected KVM switch.

Please refer to www.aten.com for more details.

**Product specifications and appearance are subject to change without notice.

KVM Adapter Cables (CPU Modules)

Type	USB-PS/2	Serial	
Model	KVM Adapter Module with USB, PS/2, and RS-232 Local Console	Serial KVM Adapter Module	Serial KVM Adapter Cable
	KA7174	KA9140	KA7140
			
Connectors			
Link	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Female
Computer	1 x SPHD Female	1 x DB-9 Female	1 x DB-9 Female
Console Ports	1 x SPHD Male	1 x HDB-15 Female 1 x Min Din 6 Female	N/A
Power	1 x DC Jack	1 x DC Jack	1 x Mini USB Type B Female
Pushbuttons			
Operating Mode Selection	1 x Pushbutton	N/A	N/A
LEDs			
Online / Link	N/A	1 (Green)	1 (Green)
Power	N/A	1 (Orange)	1 (Orange)
Local	1 (Green)	N/A	N/A
Remote	1 (Green)	N/A	N/A
Emulation			
Keyboard / Mouse	PS/2, USB	N/A	N/A
Video	Up to 1920 x 1200 @ 60Hz	N/A	N/A
Power Consumption	DC5V: 1.57W	DC5V: 1.60W	N/A
Physical Properties			
Housing	Metal	Metal	Plastic
Weight	0.49 kg (1.08 lb)	0.50 kg (1.1 lb)	0.09 kg (0.2 lb)
Dimensions (L x W x H)	20.30 x 8.64 x 2.50 cm (7.99 x 3.4 x 0.98 in.)	20.00 x 8.15 x 2.50 cm (7.87 x 3.21 x 0.98 in.)	9.00 x 4.30 x 2.18 cm (3.54 x 1.69 x 0.86 in.)
Carton Lot	5 pcs	5 pcs	10 pcs

Compatible KVM Switch*			
Model No.	KA7174	KA9140	KA7140
KH1508A / KH1516A / KH1532A	N/A	•	N/A
KH2508A / KH2516A	N/A	•	N/A
KL1508A / KL1516A	N/A	•	N/A
KL1108V / KL1116V	N/A	N/A	•
KL1508Ai / KL1516Ai	N/A	•	N/A
KH1508Ai / KH1516Ai	N/A	•	N/A
KN1108V / KN1116V	N/A	N/A	•
KN1108VA / KN1116VA	N/A	N/A	•
KN2124VA / KN2140VA KN4124VA / KN4140VA	•	N/A	•
KN1132V / KN2116VA KN2132VA / KN4116VA KN4132VA / KN4164V KN8132V / KN8164V	•	N/A	•
KM0932 / KM0532 / KM0032**	N/A	•	N/A
(KN2116A / KN2132 / KN4116 KN4132 / KN2116v / KN2132v KN4116v / KN4132v / KN2124v KN2140v / KN4124v / KN4140v)**	•	•	•

Note:

*Virtual Media & CAC Reader features support will depend on the functionality of the connected KVM switch.

Please refer to www.ATEN.com for more details.

**Product specifications and appearance are subject to change without notice.

Cables

Images	Part No.	Interface	To PC / Source Interface	To Switch Interface	Compatible Products
	2L-1001P/C (1.8 m) 2L-1003P/C (3 m) 2L-1005P/C (5 m) 2L-1006P/C (6 m) 2L-1010P/C (10 m) 2L-1020P/C (20 m)	PS/2 Standard VGA	 6 pin mini-DIN Male	 6 pin mini-DIN Male	CS82A, CS84A
	2L-5001P/C (1.2 m) 2L-5002P/C (1.8 m) 2L-5003P/C (3 m) 2L-5005P/C (5 m)	PS/2 Slim VGA	 HDB-15 Male	 6 pin mini-DIN Male  HDB-15 Female	
	2L-1001P (1.8 m) 2L-1003P (3 m) 2L-1005P (5 m) 2L-1010P (10 m) 2L-1020P (20 m) 2L-1030P (30 m) 2L-1040P (40 m)	PS/2 VGA	 6 pin mini-DIN Male  HDB-15 Male	 6 pin mini-DIN Female  6 pin mini-DIN Female  HDB-15 Female	For PS/2 console extension
Console					
	2L-5502UP (1.8 m) 2L-5503UP (3 m) 2L-5506UP (6 m)	USB VGA	 USB Type A Male	 6 pin mini-DIN Male  6 pin mini-DIN Male  HDB-15 Female	CS82A, CS84A
	2L-5201P (1.2 m) 2L-5202P (1.8 m) 2L-5203P (3 m) 2L-5206P (6 m) 2L-5210P (10 m)	PS/2 VGA	 6 pin mini-DIN Male  HDB-15 Male	 SPHD Male	CE250A, CL1000, CL1008, CL1016, CL1308, CL1316, CL3000, CL3108, CL3116, CL5708, CL5716, CL5800, CL5808, CL5816, CL5708i, CL5716i, CN8000A, CS74E, CS231, CS1308, CS1316, CS1708A, CS1716A, CS1708i, CS1716i, KN1000A
	2L-5202UP (1.8 m) 2L-5203UP (3 m) 2L-5205UP (5 m) 2L-5206UP (6 m)	USB VGA	 USB Type A Male	 HDB-15 Male  SPHD Male	CE250A, CE350, CE370, CL1000, CL1008, CL1016, CS74E, CS231
With built-in PS/2 to USB Converter					
	2L-5203A (3 m) 2L-5205A (5 m)	VGA Audio	 2 Audio Plugs  HDB-15 Male	 SPHD Female	CS1742, CS1744









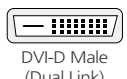






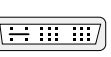

















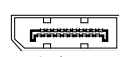











About SPHD Connectors:





Many of our KVM switches use SPHD connectors for their KVM and/or console ports. We have specifically modified the shape of these connectors so that only KVM cables that we have designed to work with the KVM switch can be connected.

Images	Part No.	Interface	To PC / Source Interface	To Switch Interface	Compatible Products
	2L-5301UP (1.2 m) 2L-5302UP (1.8 m) 2L-5303UP (3 m)	USB PS/2 VGA	 USB Type A Male  HDB-15 Male  6 pin mini-DIN Male  6 pin mini-DIN Male	 SPHD Male	CN8000A, CS82U, CS84U, CL5808, CL5816, CS1308, CS1316, KN1000A
	2L-1701P (1.8 m) 2L-1703P (3 m) 2L-1705P (5 m) 2L-1710P (10 m)	PS/2 VGA Audio	 6 pin mini-DIN Male  6 pin mini-DIN Male  2 Audio Plugs  HDB-15 Male	 DB-25 Male	CS228, CS428
	2L-5003U (3 m)	USB VGA	 USB Type A Male  HDB-15 Male	 USB Type B Male  HDB-15 Female	CE700, CS102U, CS104U
	2L-5301U (1.2 m) 2L-5302U (1.8 m) 2L-5303U (3 m) 2L-5305U (5 m)	USB VGA Audio	 USB Type A Male  HDB-15 Male  2 Audio Plugs	 SPHD Male  2 Audio Plugs	CE750A, CE770, CE774, CE775, CE800B, CL3100, CS1732B, CS1734B
	2L-5301P (1.2 m) 2L-5302P (1.8 m) 2L-5303P (3 m) 2L-5305P (5 m)	PS/2 VGA Audio	 6 pin mini-DIN Male  6 pin mini-DIN Male  2 Audio Plugs  HDB-15 Male	 SPHD Male  2 Audio Plugs	CE350, CE370, CS1732B, CS1734B
	2L-5201U (1.2 m) 2L-5202U (1.8 m) 2L-5203U (3 m) 2L-5205U (5 m)	USB VGA	 USB Type A Male  HDB-15 Male	 SPHD Male	CE700A, CL1308, CL1316, CL3000, CL3100, CL3108, CL3116, CL5708, CL5716, CL5800, CL5808, CL5816, CL5708i, CL5716i, CN8000A, CS72U, CS74U, CS82U, CS84U, CS231, CS1308, CS1316, CS1708A, CS1716A, CS1708i, CS1716i, CS1742, CS1744, KN1000A
	2L-7D01H (1 m) 2L-7D02H-1 (2m) 2L-7D03H (3 m) 2L-7D05H (5 m) 2L-7D05H-1 (5 m) 2L-7D10H (10 m) 2L-7D15H (15 m) 2L-7D20H (20 m)	HDMI	 HDMI	 HDMI	CS1822, CS1824, CS1842, CS1844, CS19208, CS19216, CS18208, CS18216
	2L-7D02U (1.8 m) 2L-7D03U (3 m) 2L-7D05U (5 m)	USB DVI-D Audio	 USB Type A Male  DVI-D Male (Single Link)  2 Audio Plugs	 USB Type B Male  DVI-D Male (Single Link)  2 Audio Plugs	CE600, CE604, CE610A, CE620, CE680, CE611, CE624, CE690, CL3800, CL6700MW, CL6708MW, CM1164A, CN9600, CS1642A, CS1644A, CS1762A, CS1764A, CS1768, CS1788, CS1782A, CS1784A, CS261, KE6900AiT, KE6940AiT, KE6900A, KE6940A, KE6900, KE6940, KE6900ST CL6708MW, CS1642A, CS1644A CS1762A, CS1764A, CS1768, CS1782A, CS1784A, CS1788, KE6900AiT, KE6940AiT, KE6900A, KE6940A, KE6900, KE6940
	2L-7D02UI (1.8 m) 2L-7D03UI (3 m)	USB DVI-I Audio	 USB Type A Male  DVI-I Male (Single Link)  2 Audio Plugs	 USB Type B Male  DVI-I Male (Single Link)  2 Audio Plugs	

Cables

Images	Part No.	Interface	To PC / Source Interface	To Switch Interface	Compatible Products
	2L-7D02UD (1.8 m) 2L-7D03UD (3 m) 2L-7D05UD (5 m)	USB DVI-D Dual Link Audio	  	  	CS1642A, CS1644A, CS1782A, CS1784A, CS1788, CN9600, KE6920, KE6922, KE6910, KE6912, KE6900ST
	2L-7D03DD (3 m) 2L-7D05DD (5 m)	DVI-D Dual Link			CS1642A, CS1644A
	2L-7DX2U (1.8 m) 2L-7DX3U (3 m)	USB VGA Audio	  	  	CL6708MW, CS1642A, CS1644A, CS1762A, CS1768, CS1788, CS1782A, CS1784A, KE6900AiT, KE6940AiT, KE6900A, KE6940A, KE6900, KE6940
	2L-7D02DH (1.8 m)	USB HDMI Audio	  	  	CE600, CE604, CE610A, CE620, CE624, CE680, CE690, CL3800, CL6700MW, CL6708MW, CM1164A, CN9600, CS1642A, CS1644A, CS1762A, CS1764A, CS1768, CS1788, CS1782A, CS1784A, CS261, KE6900AiT, KE6940AiT, KE6900A, KE6940A, KE6900, KE6940, KE6900ST
	2L-7D02UH (1.8 m)	USB HDMI Audio	  	  	CE820, CL3700, CL3800, CL3884NW, CL6700MW, CS1792, CS1794, CS1798, CS17916, CS1842, CS1844, CM1284, KE8950, KE8952, KE8900S
	2L-7D02DP (2 m) 2L-7D03DP (3 m) 2L-7D03DP-1 (3 m) 2L-7D04DP (4.6 m)	DisplayPort			CE920, CS1922, CS1924, CS1922M, CS1924M, CS1942DP, CS1944DP, CS1964, CS19208, CS19216, KE9950, KE9952, KE9900ST
	2L-1700 (0.6 m) 2L-1701 (1.8 m) 2L-1703 (3 m) 2L-1705 (5 m) 2L-1715 (15 m)	Daisy-Chain Cable			CS1708A, CS1716A, CS1708i, CS1716i, CL1008, CL1016, CL5708, CL5716, CL5808, CL5816, CL5708i, CL5716i, KH1508A, KH1516A, KH1532A, KH1508Ai, KH1516Ai, KL1508A, KL1516A, KL1508Ai, KL1516Ai
	2L-2801 Low Skew Cable	RJ-45			CE100, CE250A, CE350, CE370, CE600, CE604, CE700A, CE750A, CE770, CE774, CE775, CE800B
	2L-2910 HDBaseT Cat 6 Cable	RJ-45			All ATEN HDBT products

Accessories

Images	Part No.	Product Name	Compatible Products
	2XRT-0003G	IR Extender Cable	CM1164A, CM1284
	2X-EA12	LockPro - HDMI Cable Lock	CL3700, CL3800, CL3884NW, CS19208, CS19216, CS18208, CS18216, CS1798, CS17916, CS1842, CS1844, CE820
	2A-127G	DVI to HDMI Adapter	Compatible with most models equipped with DVI interface
	2A-128G	HDMI to DVI Adapter	Compatible with most models equipped with HDMI interface

Product Compatibility List

KVM	Expansion	
	Connection	Compatible KVMs
CL1308	Cascade	CS1308, CS1316, CS1732B, CS1734B
CL1316	Cascade	CS1308, CS1316, CS1732B, CS1734B
CL3108	Cascade	CS1308, CS1316, CS1708A, CS1716A
CL3116	Cascade	CS1308, CS1316, CS1708A, CS1716A
CL3884NW	Cascade	CM1164A, CM1284
CL6708	Cascade	CS1768
CS1308	Cascade	CS1308, CS1316
CS1316	Cascade	CS1308, CS1316
CS1768	Cascade	CS1768, CS1788
CS1788	Cascade	CS1768, CS1788
CS1798	Cascade	CS1798, CS17916
CS17916	Cascade	CS1798, CS17916
CS19208	Cascade	CS19208, CS19216
CS19216	Cascade	CS19208, CS19216
CS18208	Cascade	CS18208
CS18216	Cascade	CS18216
CL1008	Daisy-Chain	CS1708A, CS1716A
CL1016	Daisy-Chain	CS1708A, CS1716A
CL5708	Daisy-Chain	CS1708A, CS1716A
CL5716	Daisy-Chain	CS1708A, CS1716A
CL5808	Daisy-Chain	CS1708A, CS1716A
CL5816	Daisy-Chain	CS1708A, CS1716A
CL5708i	Daisy-Chain	CS1708A, CS1716A
CL5716i	Daisy-Chain	CS1708A, CS1716A
CS1708A	Daisy-Chain	CS1708A, CS1716A, CS1708i, CS1716i
CS1716A	Daisy-Chain	CS1708A, CS1716A, CS1708i, CS1716i
CM1164A	Cascade, Daisy-Chain	CM1164A, CM1284
CM1284	Cascade, Daisy-Chain	CM1164A, CM1284

Product Compatibility List

Model	Expansion	
	Connection	Compatible KVM Switch
KH1508A / KH1516A / KH1532A	Daisy-Chain	KH1508A / KH1516A / KH1532A* (CS1708A / CS1716A)**
KH2508A / KH2516A	Daisy-Chain	KH2508A / KH2516A
KL1508A / KL1516A	Daisy-Chain	KH1508A / KH1516A (CS1708A / CS1716A)**
KL1108V / KL1116V	Cascade	KH1508A / KH1516A (CS1308 / CS1316)**
KL1508Ai / KL1516Ai	Daisy-Chain	KH1508A / KH1516A (CS1708A / CS1716A)**
KH1508Ai / KH1516Ai	Daisy-Chain	KH1508A / KH1516A (CS1708A / CS1716A)**
KN1108V / KN1116V KN1108VA / KN1116VA	Cascade	KH1508A / KH1516A (CS1308 / CS1316)**
KN1132V / KN2116VA / KN2132VA KN4116VA / KN4132VA / KN4164V KN8132V / KN8164V / KN2124VA KN2140VA / KN4124VA / KN4140VA	Cascade	KH1508A / KH1516A / KH1532A (CS1308 / CS1316)**
KM0932 / KM0532	Cascade	KH1508A / KH1516A, KN1108V / KN1116V, KN1132V / KN2116VA / KN2132VA / KN4116VA / KN4132VA / KN4164V / KN8132V / KN8164V, KN2124VA / KN2140VA / KN4124VA / KN4140VA (KN2116A / KN2132 / KN4116 / KN4132, KN2116v / KN2132v / KN4116v / KN4132v, KN2124v / KN2140v / KV4124v / KN4140v)**

Note: *KH1532A must be the primary device.

**Product specifications and appearance are subject to change without notice.

Please refer to www.aten.com for more details.

KVM Adapter Cables Compatibility List*

Model	KH1508A KH1516A KH1532A KH1508Ai KH1516Ai	KH2508A KH2516A	KL1508A KL1516A KL1508Ai KL1516Ai	KL1108V KL1116V	KN1108V KN1116V	KN1108VA KN1116VA
KA7120	•	•	•	•	•	•
KA7130	•	•	•	•	•	•
KA7140	N/A	N/A	N/A	•	•	•
KA7170	•	•	•	•	•	•
KA7175	N/A	N/A	N/A	•	•	•
KA7176	N/A	N/A	N/A	•	•	•
KA7177	N/A	N/A	N/A	•	•	•
KA7178	N/A	N/A	N/A	•	N/A	•
KA7520	•	•	•	N/A	N/A	N/A
KA7570	•	•	•	N/A	N/A	N/A
KA7920	•	•	•	N/A	N/A	N/A
KA7970	•	•	•	N/A	N/A	N/A
KA9140	•	•	•	N/A	N/A	N/A
KA7174	N/A	N/A	N/A	N/A	N/A	N/A
KA7166	•	•	•	•	•	•
KA7168	•	•	•	•	•	•
KA7169	•	•	•	•	•	•
KA7183	N/A	N/A	N/A	N/A	N/A	•
KA7188	N/A	N/A	N/A	N/A	N/A	•
KA7189	N/A	N/A	N/A	N/A	N/A	•

Note: *Product specifications and appearance are subject to change without notice.

Please refer to www.aten.com for more details.

KVM Adapter Cables Compatibility List*

Model	KN2124VA KN2140VA KN4124VA KN4140VA	KN1132V / KN2116VA KN2132VA / KN4116VA KN4132VA / KN4164V KN8132V / KN8164V	KM0532 KM0932 KM0032
KA7120	•	•	•
KA7130	•	•	•
KA7140	•	•	N/A
KA7170	•	•	•
KA7175	•	•	N/A
KA7176	•	•	N/A
KA7177	•	•	N/A
KA7178	•	•	N/A
KA7520	N/A	N/A	N/A
KA7570	N/A	N/A	N/A
KA7920	N/A	N/A	N/A
KA7970	N/A	N/A	N/A
KA9140	N/A	N/A	•
KA7174	•	•	N/A
KA7166	•	•	N/A
KA7168	•	•	N/A
KA7169	•	•	N/A
KA7183	•	•	N/A
KA7188	•	•	N/A
KA7189	•	•	N/A




















Note: *Product specifications and appearance are subject to change without notice.
Please refer to www.aten.com for more details.

KVM Adapter Cables Compatibility List*

Model	KN2116A / KN2132 KN4116 / KN4132	KN2116v / KN2132v KN4116v / KN4132v	KN2124v / KN2140v KN4124v / KN4140v
KA7120	•	•	•
KA7130	•	•	•
KA7140	•	•	•
KA7170	•	•	•
KA7175	•	•	•
KA7176	•	•	•
KA7177	•	•	•
KA7178	N/A	N/A	N/A
KA7520	N/A	N/A	N/A
KA7570	N/A	N/A	N/A
KA7920	N/A	N/A	N/A
KA7970	N/A	N/A	N/A
KA9140	•	•	•
KA7174	•	•	•
KA7166	•	•	•
KA7168	•	•	•
KA7169	•	•	•
KA7183	N/A	N/A	N/A
KA7188	N/A	N/A	N/A
KA7189	N/A	N/A	N/A

Note: *Product specifications and appearance are subject to change without notice.
Please refer to www.aten.com for more details.

Hotkeys

Models	Hotkey Mode (Invoke Hotkeys)	Port Selection	Invoke OSD
CL3100, CL3108, CL3116, CL3700, CL3800, CL3884NW, CL5708, CL5716, CL5708I, CL5716I, CL5808, CL5816, CL6708MW, CM1164A, CM1284, CS1308, CS1316, CS1708A, CS1716A, CS1708i, CS1716i, CS1768, CS1788, CS1798, CS17916, CS19208, CS19216, CS18208, CS18216	Default:   or Alternate:  	Default:   (n)  or Alternate:   (n) 	Default:   or Alternate:  
CL1008, CL1016	Default:  	Default:   (n) 	Default:   or Alternate:  
CS52A, CS682, CS692, CS782DP	Default:   or Alternate:  	Default:    or Alternate:   	—
CS62S	—	 	—
CS62U, CS62US	Default:   or Alternate:  	Default: Alternate:  	—
CS1642A, CS1644A, CS1742, CS1744, CS1762A, CS1764A, CS1782A, CS1784A, CS1792, CS1794, CS1822, CS1824, CS1842, CS1844, CS1912, CS1914, CS1922, CS1924, CS1922M, CS1924M, CS1942DP, CS1944DP, CS1953, CS1964, CS231, CS261, CS62KM, CS64U, CS64US, CS724KM, CS82U, CS84U	Default:   or Alternate:  	  Default: 1.    2.   (n)  or Alternate: 1.    2.   (n) 	—

Models	Hotkey Mode (Invoke Hotkeys)	Port Selection	Invoke OSD
CS1732B, CS1734B	Default: Num Lock - or Alternate: Ctrl F12	Default: Num Lock - (n) Enter Num Lock - ← ; Num Lock - → Num Lock - ↑ ; Num Lock - ↓ or Alternate: Ctrl F12 (n) Enter Ctrl F12 ← ; Ctrl F12 → Ctrl F12 ↑ ; Ctrl F12 ↓	Default: Scroll Lock Scroll Lock or Alternate: Ctrl Ctrl
CS82A	—	Default: Scroll Lock Scroll Lock or Alternate: Ctrl Ctrl	—
CS84A	—	Ctrl Shift Alt (n) Enter	—
CS74E	—	Scroll Lock Scroll Lock ↓ ; Scroll Lock Scroll Lock ↑ ; Scroll Lock Scroll Lock fn	—

Legend:

(n): The n stands for the computer's Port ID number (1, 2, 3, 4...).

Fn: Where Fn represents a function key (from [F1] to [F4]) that corresponds to the KVM port (1 to 4).

← previous port;

→ next port;

↑ last accessible port;

↓ first accessible port

Hotkeys

Our KVM switches provide an extensive, easy-to-use, hotkey function that makes it convenient to access, control, and configure your KVM installation from the key-board. They offer the simplest way to access the connected computers.

Hotkey Mode

All hotkey operations begin with invoking Hotkey Mode. The invocation sequence depends on the product and the user's preference. In each case, there is a factory default sequence and an alternate sequence that the user can select instead. The Hotkey invocation sequence for each product is shown in the table. The default sequence is given first and appears in bold text.

Port Selection

Hotkey port switching simply involves pressing the appropriate hotkey sequence. In some cases, simply invoking Hotkey Mode cycles you through the available ports; in others, the sequence involves specifying the port ID that the computer you want to access is connected to; while in still other cases, it involves pressing one of the arrow keys.

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