ATEN
Simply Better Connections

Product Catalog

Professional AV Solutions

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.

AV IT meets
Your Premier Partner
Since 1979

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.

ATEN
Simply Better Connections

Professional AV Solutions

- Control System
- Management / Control Software
- Networked AV
- Presentation Switches
- Room Booking System
- Video Converters
- Video Extenders
- Video Matrix Switches
- Video Splitters
- Video Switches

KVM Solutions

- KVM Switches
  - Cable KVM Switches
  - Desktop KVM Switches
  - LCD KVM Switches
  - Rack KVM Switches
  - Cat 5 KVM Switches
  - Secure KVM Switches
- KVM Extenders
- Computer Sharing Devices
- Over IP Solutions
  - KVM over IP Matrix System
  - KVM over IP Switches
  - LCD KVM Switches
  - Management Software
  - Remote Control & Monitoring Solutions
  - Serial Console Servers
  - Secure Device Servers
- Data Communications
- KVM Modules & Included Accessories

USB Peripherals

- Content Creation
- Docking Stations
- Docking Switches
- Peripheral Switches
- USB Extenders
- USB Converters / Hubs

Power Distribution & Rack Solutions

- Energy & DCIM Management Software
- Professional Online UPS
- Rack PDU
  - Basic PDU
  - Energy Box
  - Metered PDUs
  - Outlet-Metered PDUs
  - Outlet-Metered-Switched PDUs
  - Switched PDUs
  - IP Control Box
- Standing Network Racks

Company Profile



POLAND



RUSSIA



CANADA R&D



USA



UK



BELGIUM



MEXICO



SOUTH AFRICA

- 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.

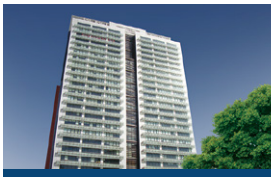


ATEN eNews

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.



ROMANIA



CHINA (BEIJING)

CHINA (SHANGHAI)

CHINA (GUANGZHOU)

CHINA R&D

CHINA FACTORY



KOREA (SEOUL)

KOREA (BUSAN)



JAPAN (TOKYO)

JAPAN (OSAKA)

JAPAN (KYUSHU)

JAPAN (NAGOYA)



TURKEY



INDIA



THAILAND FACTORY



AUSTRALIA



TAIWAN HQ

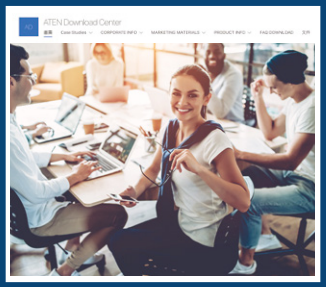
TAIPEI R&D

TAINAN R&D

TAIWAN (NEW TAIPEI)

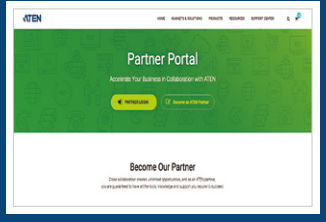
TAIWAN (KAOHSIUNG)

TAIWAN FACTORY



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.



Why Choose ATEN Professional AV Solutions?

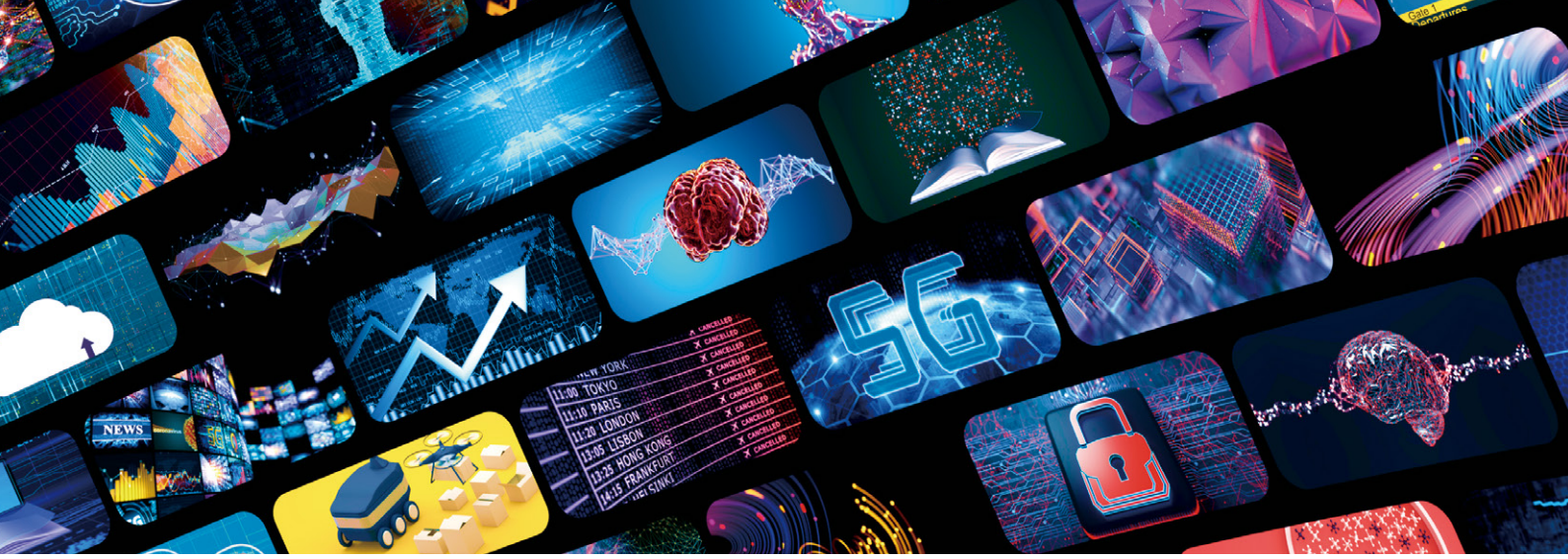
At the frontline of AV/IT convergence, ATEN professional AV products provide the components to build flexible, integrated solutions for video-related applications. With support for all current video interfaces, extensive audio support, and the latest in cutting-edge AV control, ATEN professional AV solutions always deliver the ultimate visual experience. Whatever your digital performance requirements, seamlessly transition to the highest resolutions and future-proof your video installation with ATEN professional AV solutions.

40+ Years of Experience

ATEN has been at the forefront of the data communication and connectivity industries since 1979 and has been an international leader in the entry- to mid-level KVM switch market for over 40 years. Our ATEN Professional AV Solutions have developed alongside our KVM expertise and now we are leveraging these enhanced video and control capabilities to expand further into this technology-intensive field. From our first video switch in 1993 to today's cutting-edge Modular Matrix Switch, 4K over IP Extender and a series of 4K/True 4K devices, we have been continually creating, developing and expanding our video products range. Given ATEN's experience and expertise in video-related technologies, it simply makes sense to source your ATEN Professional AV Solutions from us.

Flexible, Integrated Solutions

ATEN Professional AV Solutions give you crystal-clear images from all vantage points – at home, in the office, and in commercial, industrial, information, and entertainment environments. We have a full range of components that can be leveraged in different ways to fulfill the needs of various industries. From switches and splitters to extenders and converters – our range of video products provide you with a multitude of flexible, integrated solutions for all video-related applications. From installers looking for components to specialized providers looking for total video solutions, there is an ATEN product to meet all your professional AV needs. Why not let our vision become your advantage?



Quality Engineering

At ATEN, we employ engineers who are experts in their fields and provide them with an environment where they can thrive and give wings to their ideas. In return, our teams of resourceful and talented R&D professionals supply us with a continuous array of high-tech video innovations that we are proud to supply to our customers. In addition to top quality engineering, every component is carefully selected and rigorously tested throughout the design and production process to ensure that ATEN only supplies video products of the highest quality where you can get the reliability and performance you demand.

Total Customer Satisfaction

Customer satisfaction has and always will be the number one priority at ATEN. To ensure this, excellence is pursued at every stage. We provide a constant stream of new products with innovative technologies. We can be relied upon for the highest quality manufacturing and for timely deliveries. We have a wealth of dedicated and talented sales service personnel, backed up by experienced technicians, who provide unparalleled customer support. All of this adds up to total customer satisfaction. We have a proven track-record of superlative after-sales and technical support for customers, re-sellers, and partners across the board. There is no need to settle for less.

- Courtrooms – AV Signal Distribution – Galicia, Spain
- Hospital – Remote Observation Control Room – Europe
- Performance Venue – AV Distribution & Control – Australia
- Major Retailer – Kiosk and Digital Signage Extension – USA
- Italian University - Classrooms & Meeting Rooms, Italy
- Olympus Corporation - Long-range Over IP Video Transmission, Japan

see more details: https://www.aten.com/global/en/market-and-solutions/success-stories/



ATEN Professional AV Technologies

Seamless Switch™

ATEN Seamless Switch™ technology features instantaneous video switching to deliver True 4K video powered by an exclusive seamless engine implemented at each output port. This high-performance engine processes AV signals by executing EDID and HDCP handshakes simultaneously at both source and display ends, scaling inputs for the best output resolution while setting the output clock timing and using a frame buffer to retain input signal information for the fastest output. This innovative processing of high-speed signals contributes to continuous video streams, real-time switching, and stable signal transmission.

Video Wall Integration with Scaler

A unique Scaler utilizing ATEN FPGA technology is built into ATEN's Seamless Switch™ Series to unify various video input signals and render optimum output resolutions on displays with uncompromised precision. Through an intuitive web GUI, video wall profiles can be created with custom screen layouts for a wide range of Pro AV applications. Integrating a video wall processor and matrix switching capability, these products simplify the installation process and contribute to cost-effective management.

FrameSync

ATEN's FrameSync Technology prevents screen tearing by synchronizing frame rates, guaranteeing smooth video for high-motion elements and ensuringstunning tear-freevideo walls, especially when a fast-moving object appears on the screen.

True 4K Support with HDR

ATEN offers a comprehensive portfolio of True 4K Pro AV solutions with High Dynamic Range (HDR) technology support that provides high-performance signal switching,extension, splitting, routing, and distribution to deliver the ultimate visual experience with exceptional sharp and vibrant video quality. The series products are fully tested and certified to ensure full HDR support. Identify the right products for your performance requirements by looking for the ATEN True 4K and HDR logos.

HDBaseT™ Technology

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. In addition, ATEN utilizes the full capabilities of HDBaseT technology to develop a complete HDBaseT lineup – from the VE1843 transceiver, which features the latest HDBaseT spec 3.0 to transmit uncompressed True 4K HDMI with multiple control signals up to 100 m, to a wide range of modular matrix switches, extenders, and splitters – to fulfill Pro AV demands in various scenarios.

ATEN Exclusive Video Compensation Technology

ATEN's patented video compensation technology permits video signals to be transmitted over long distances more accurately, improving upon the previous design by minimizing inaccuracy from 10m to only 1m. This technology not only boosts the brightness but also achieves a higher skew tolerance for our video extender products.

Deskew

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

EDID Expert™

ATEN offers an extensive portfolio of Pro AV products with selectable EDID modes to fulfill the requirements of different applications. In most cases where multiple video sources and displays or long-distance transmissions are demanded, the ATEN EDID Expert™ technology offers applicable EDID modes for selection that optimize the output capability throughout the installation for faster and very smooth video performance.

AV Over IP Technology

ATEN's video over IP solution delivers visually lossless 1080p/4k AV signals with low latency over long distances via a standard Gigabit network. It's designed to address the challenges that system integrators encounter when implementing AV over IP solutions and provides an effective, easy-to-use, and economical digital signage solution. It's suitable for use in a wide range of environments, including trade shows, airports, university campuses, conference centers, and shopping centers.



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		HDMI Cables	
	12-6	High Speed HDMI Cable with Ethernet (1.2, 2, 3 m)	CA101 / CA102 / CA103
	12-7	High Speed HDMI Cable with Ethernet (0.3, 0.6, 1, 2, 3, 5, 10, 15, 20 m)	2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D05H-1 / 2L-7D10H / 2L-7D15H / 2L-7D20H
	12-8	Cables	
Accessories	13-1	LockPro™ – HDMI Cable Lock	2X-EA12
	13-2	Accessories	

Note: Product features and illustrations may have been updated since this catalog was printed. Please visit our website to obtain the latest information.

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

ATEN Unizon™ Global AV Management Platform

ATEN Unizon™ is a server-based software for remote centralized monitoring, control, and management of Ethernet-based ATEN Video Matrix Switches and 3rd party devices (such as projectors, lights, AV devices) connected to the ATEN Control System Controllers.

By providing real-time access to device status, the platform streamlines daily AV/IT management, troubleshooting, and maintenance, making it the perfect solution to manage mass device deployments.



Your Power to Monitor, Control, Manage

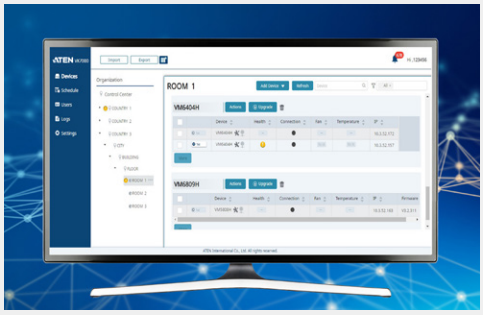
Device Status and Condition Monitoring
Synchronizes and monitors device statuses and condition in real-time for troubleshooting and maintenance.

Global Control and Scheduling
Perform and schedule routine tasks and firmware upgrades across multiple devices simultaneously.

Access and Location Management
Set user access levels and manage devices by room, floor, building, or even by city.

- **Monitor, Control, Manage from Anywhere**
  ATEN Unizon™ is accessible from anywhere on the network with the support of popular web browsers, allowing users to remotely manage, monitor, and control devices from anywhere, at any time.
- **Instant Troubleshooting and Preventive Maintenance**
  Monitor device conditions and instantly get alerted of abnormalities for immediate troubleshooting, and perform maintenance as well as plan future optimizations to avoid potential failures with past usability records.
- **Improved AV/IT Management Efficiency**
  Save time and maximize productivity with the capabilities to control devices, schedule routine tasks, and perform firmware upgrades across multiple devices simultaneously.
- **Intuitive Device Location Management**
  Easily navigate the location of devices on the 5-level location tree by drilling down by room, floor, building, or even city.
- **Controlled Access, Enhanced Security**
  Define user roles and respective permission access levels on a room-by-room basis so that devices and their data can only be accessed by relevant people.

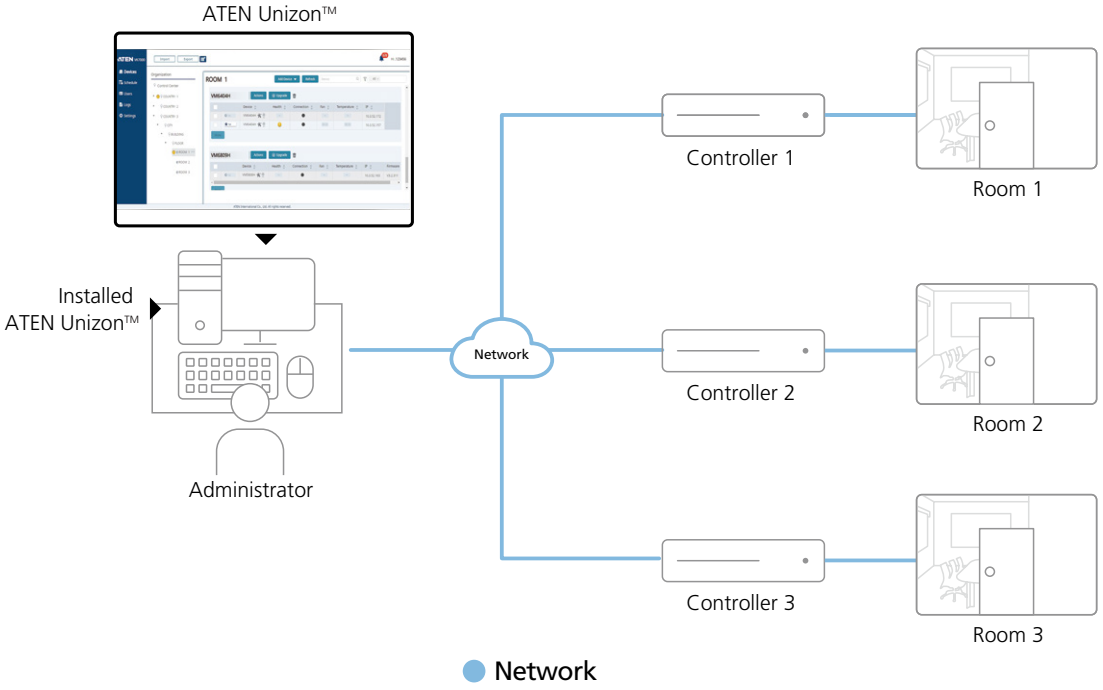
ATEN Unizon™ Global AV Management Platform



Features

- Centralized monitoring, control, and management of ATEN Video Matrix Switches and Control System solutions, including the managed third-party devices
- Room management across different locations such as campus and meeting spaces
- Intuitive user interface designed for large-scale pro AV applications across multiple locations
- Detection of device statuses, such as lamp hour of a projector and connection status for remote troubleshooting and maintenance
- Intuitive user interface for easy monitoring and management
  - 5-level deployment tree
  - Supports room view and floor view
- Batch device control and firmware upgrades
- Configurable access rights
- Logs device usage and abnormal events for usability analysis and future optimization
- Supports mainstream web browsers
- Task scheduling

Setup > ATEN Unizon™



ATEN Room Booking System



ATEN Room Booking System is tailored for all types of hybrid workplaces with its interactive panel and customizable Configurator Software for effective reservation and optimizing of space utilization.

Use Quick Booking with just one tap, or let the system intelligently find other meeting spaces or extend the meeting period time. In addition, users can find available meeting rooms via the LED bar and panel indicator to save time.

What's more, the customizable background and company logo, and modern appearance of ATEN RBS panel, enhance an organization's identity and make for a professional brand image.

Why choose the ATEN Room Booking System?

One tap
Users can easily find, and quickly book, a meeting space with one tap.

Search matched room
RBS can intelligently reflect the on-time status of room availability to the minute, and users can find open meeting spaces.

Customizable design
Users can customize the appearance design to enhance organization identity.

Real-time synchronized calendar server
RBS seamlessly integrates with leading calendar servers and auto-synchronizes with reservations from devices that connect to mail servers.

Optimize utilization
RBS can intelligently detect a meeting room's status and release the room early if needed and allow it to be booked for another meeting.

The Solution at a Glance



RBS Panel



Configurator Software

VK430 10.1" RBS Panel

Front



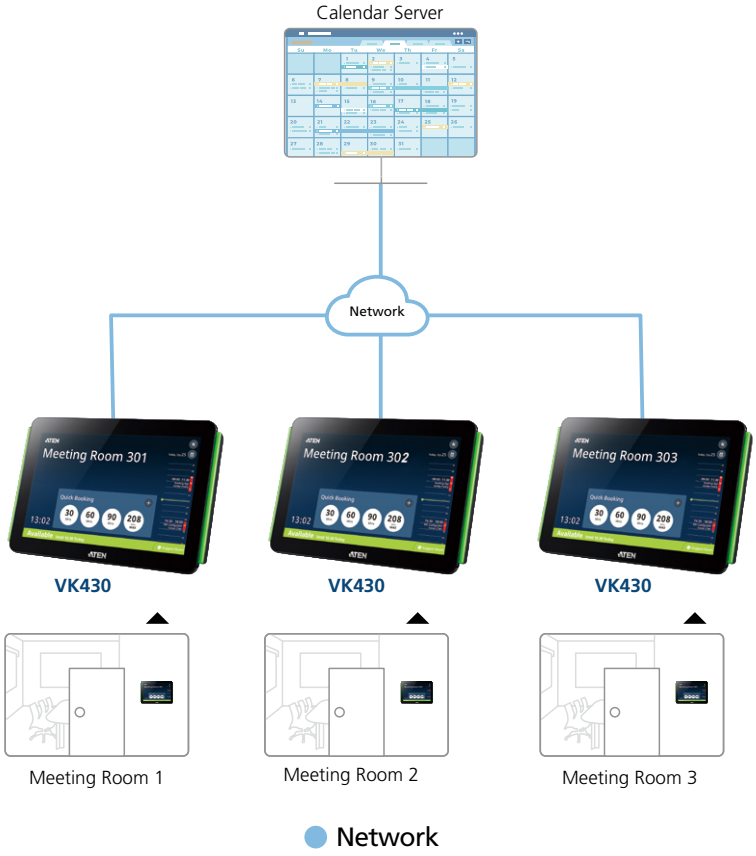
Rear



Features

- 10.1" capacitive screen
- Natively installed with the ATEN RBS app for integration with calendar servers
- Supports Power over Ethernet (PoE), which allows it to receive power and communication over a single Ethernet cable
- LED light bars illuminating user-defined colors to indicate the room's availability at a glance
- Preinstalled with a wall mount kit and provided with 3M VHB™ Tape for easy mounting onto a hard or glass wall
- 75*75 mm VESA-compliant for flexible mounting across various installation scenarios

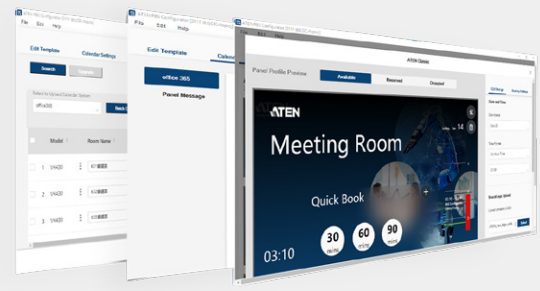
Setup > VK430



Specifications

	VK430
Panel Spec	
Display Type	TFT-LCD
Size	10.1"
Touch Screen	Capacitive
Resolution	1280 x 800
Aspect Ratio	16:10
Color Depth	8 bit
Contrast Ratio	800:1
Backlight	LED
Viewing Angle	± 85° (H), ± 85° (V)
Power Inputs	
Power over Ethernet (PoE)	802.3 at PoE+ and above
USB	1 x USB Type-A
Power Inputs	
Power over Ethernet (PoE)	802.3 at PoE+
Power Consumption	DC48V:20W
Power Consumption	
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-10 – 55 °C
Humidity	10 – 80 % RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.9 kg
Dimensions (L x W x H)	26.3 x 17.78 x 3.72 cm
Carton Lot	5 pcs
Included Accessories	2 x LED bars; 4 x LED bar screws; 4 x hard wall mount screw + screw anchor; 2 x 3M glass mount tape

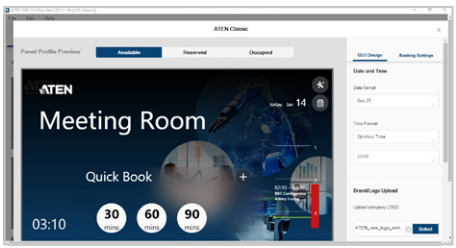
Configurator Software RBS Configurator



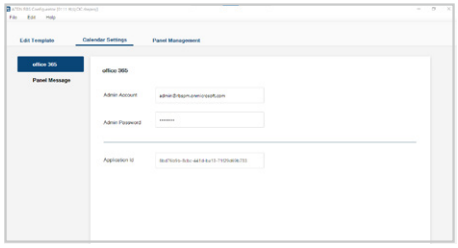
Features

- Easy RBS panel configuration via intuitive GUI
  - Profile setup (logo, background, calendar layout, etc)
  - System setting (language, sleep mode brightness, volume, etc)
  - Panel management (firmware updates and profile upload)
- Simulator to simulate and preview the customized GUI before uploading
- Supports mainstream calendar servers, such as Microsoft Office 365 Calendar, Google Calendar and Microsoft Exchange Server*

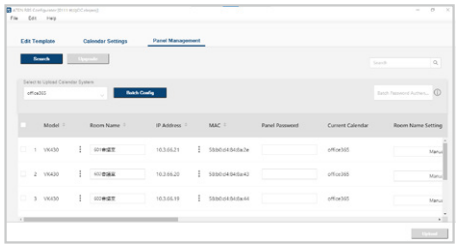
*Support for Google Calendar and Microsoft Exchange Server will be coming soon



Edit Template



Calendar Settings



Panel Management

Specifications

	RBS Configurator
Minimum Hardware Requirements	OS: Windows 7 / 8 / 10 (32 / 64-bit) Processor: 1 GHz Memory: 1 GB RAM Storage: 500 MB available hard disk space

ATEN Control System

The ATEN Control System is a standard Ethernet-based solution that connects all the hardware devices in a room to provide intuitive control from any ATEN Control System interface. Together with ATEN Unizon™, it offers a secure and highly scalable platform for centralized server-based monitoring, control, and management of devices located in a single room to floors or even across buildings.

The solution can be easily deployed into an existing installation and integrates seamlessly with ATEN Pro AV products, 3rd party AV equipment, lighting systems, air conditioning, motion sensors, power switches, and much more.



It is ideal for meeting rooms, conference centers, boardrooms, classrooms or any room that requires collaboration of a variety of hardware devices via streamlined management for optimum efficiency and performance.

Why choose the ATEN Control System?

Intelligent Control
Your devices can interact and respond to each other intelligently through pre-programmed actions to perform a fully automated series of advanced operations.

Simplified Configuration
Easily set up control patterns without extensive programming knowledge and decrease time spent on manual configuration with our advanced device drivers.

User-centered Convenience
An advanced, single-software solution creates intuitive control interfaces for any mobile device while specific needs can be conveniently tailored by selecting from an extensive library of action options and design elements.

Real-time Synchronization
Actual equipment status is synchronized in real-time across all control interfaces, enabling conflict-free control among multiple users simultaneously.

Effortless Expansion
Highly expandable with a wide range of ATEN expansion boxes, a database of 10,000+ device drivers, and support for popular control standards and protocols including KNX, Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink.

On-the-Go Control
Support for iOS, Android and Windows mobile devices facilitates centralized control of different rooms via user-defined profiles with simple point-n-tap operations.

2nd Generation of Controllor Highlights

The latest generation of the ATEN Control System is designed with major enhancements to satisfy even the most complex of setups, and includes:

- **More Processing Power**
  14 times more computing power for faster processing speed support more complex projects.
- **Higher Level of Security**
  Features dual LAN design and supports secure communication protocols such as HTTPS and SSH.
- **Major Software Upgrades**
  Provides advanced drivers with bi-directional control and feedback as well as ready-to-use graphic templates and video preview objects.
- **Easier Integration Capability**
  Access to ATEN open API for effortless integration with 3rd party systems or software.
- **Centralized Management**
  Enables centralized control and management of devices in a single room to floors or even across buildings with ATEN Unizon™.
- **Integration Partners**
  ATEN collaborates with professional AV partners to provide complete solutions for applications of all sizes.

The Solution at a Glance



Controllers

Control boxes and control pads that serve as a central platform where all hardware devices connect in order to be controlled.



Expansion Boxes

Provides additional serial, IR, relay, and digital I/O ports to flexibly increase the amount or type of hardware devices that can connect to your installation.



Control Interfaces

Customized interfaces for controlling your hardware devices via touch panels and mobile devices with the ATEN Control System app as well as wall-mount faceplates.



Software

Features Configurator Software and additional tools that enable easy set up of control settings and GUIs for use on any ATEN Control System interface.

Controller	VK2200	VK1200	VK2100A	VK1100A	VK0100	VK0200
Type	Control Box Gen. 2 with Dual LAN	Compact Control Box Gen. 2 with Dual LAN	Control Box Gen.2	Compact Control Box Gen.2	Control Pad (US, 1Gang)	Control Pad (EU, 2Gang)
Serial	8	2	6	2	2	2
IR / Serial	8	2	4	2	N/A	N/A
Relay	8	4	4	4	2	2
Digital I/O	8	2	4	2	1	1
Ethernet	2	2	1	1	1	1
USB	•	•	•	•	N/A	N/A
DC 12V Power Supply	2A	1A	2A	1A	N/A	N/A
PoE	N/A	N/A	N/A	N/A	•	•
IR Learning	•	•	•	•	N/A	N/A
LCD Display	•	•	N/A	N/A	N/A	N/A
Max. No. of Viewers*	32	32	16	16	10	10

*Contact your local sales representative if you require more connections.

Expansion Box	VK224	VK236	VK248	VK258
Interface	Serial	IR/RS-232	Relay	Digital I/O
Number of Ports	4	6	8	8
PoE	•	•	•	•

Touch Panel	VK330
Display Type	10.1" TFT LCD
Touch Screen	Capacitive
Resolution	1280 x 800
PoE	•

Keypad	VK112EU	VK108US
Type	EU, 2 Gang	US, 1 Gang
No. of Buttons	6 – 12	4 – 8
Layout Combinations	125	14
PoE	•	•

VK2200 Control Box Gen. 2 with Dual Lan

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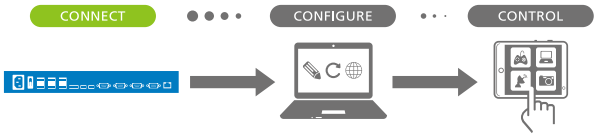


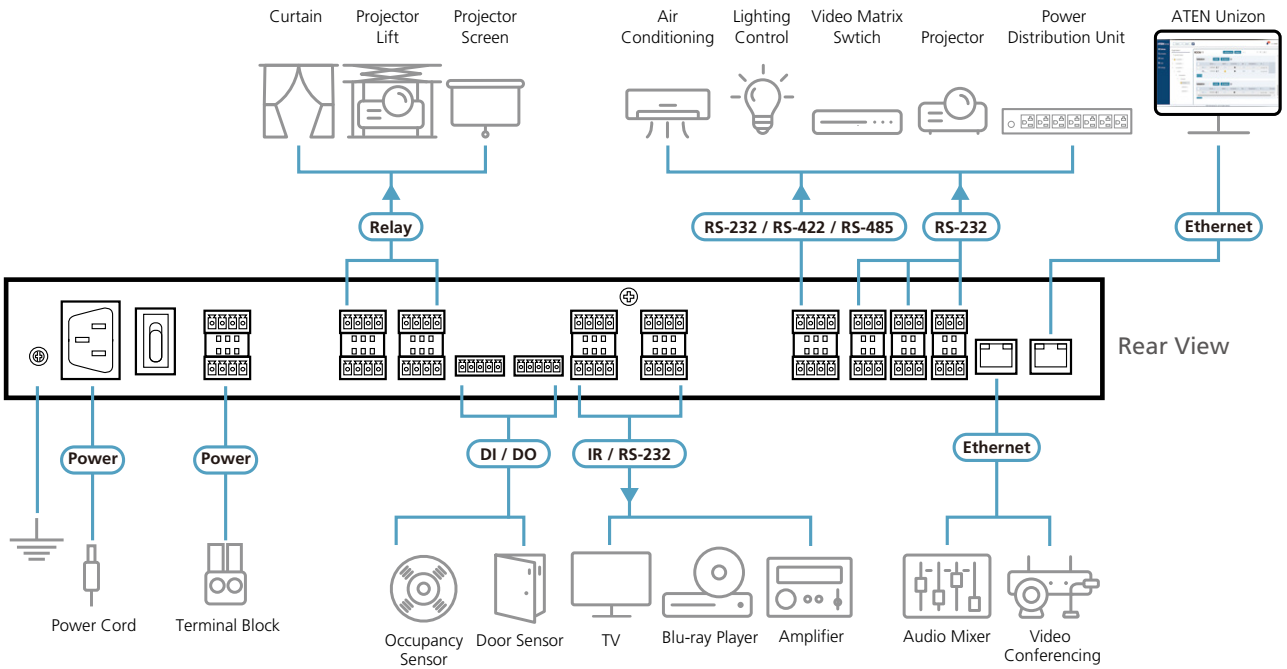


Features

- High performance processor embedded with quad-core CPU and 2 GB memory for designing and controlling complex projects
- Dual, isolated LAN for secured communication among IT devices
- Supports various interface connections for hardware-software integration and the mobility of control
- DC outputs for power supply connections
- USB port for easy profile upload
- LCD display shows the option for configuration and information display
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Open API for effortless integration with 3rd party systems or software.
- Enables centralized control and management of devices with ATEN Unizon™.
- Supports project file backup
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring
- LED indication of connection and hardware status
- 2 free licenses for mobile control*

Note: If you require more than 2 licenses, contact the local sales representative. For more information on licenses, see Specifications.

Setup > VK2200



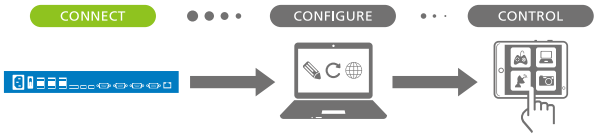
Specifications

	VK2200
Interfaces	
Serial	• 2 x Programmable Bi-directional RS-232/422/485 Ports (2x 5-Pole Terminal Block Connectors, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS • 6 x Bi-directional RS-232 Ports (6 x 3-Pole Terminal Block Connectors); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), even or odd
IR/Serial	• 8 x Programmable IR / Uni-directional RS-232 Ports (4 x 4-Pole Terminal Block Connectors); IR: – Carrier Frequency: 10KHz~455KHz; Serial: Uni-directional RS-232 TTL Level (0 - 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
I/O	• 8 x Programmable Digital Input / Output Channels (2 x 5-Pole Terminal Block Connector); Digital Output: 300 mA sink from 24 VDC Digital Input: – VDC Mode Input Voltage Range: 0 to 24 VDC; Programmable Range: 1 to 24 VDC; – Dry Contact Mode Pull-up 2k ohms to + 12 VDC
Relay	• 8 x Relay Channels (4 x 4-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 2A
VDC	• 4 x 12 VDC Output Ports (2 x 4-Pole Terminal Block Connectors); • Power Supply: 12 VDC, 2A Max (shared by 4 ports)
Ethernet	• 2 x RJ-45 Female, 10 / 100 / 1000 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds Control LAN: IP: 192.168.0.60; Subnet Mask: 255.255.255.0 LAN: IP: 192.168.1.60; Subnet Mask: 255.255.255.0
Switches	
Power	1 x On/Off Switch
IR Learning	1 x IR Receiver LED
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A
Power	
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
License	
Basic (free)	2 free licenses
Max. No. Allowed	32 licenses
Carton Lot	1 pc

Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	13-3
4-Port Serial Expansion Box	VK224	3-15
6-Port IR/Serial Expansion Box	VK236	3-16
8-Channel Relay Expansion Box	VK248	3-17
8-Channel Digital I/O Expansion Box	VK258	3-18
12-Button Keypad (EU, 2 Gang)	VK112EU	3-25
8-Button Keypad (US, 1 Gang)	VK108US	3-26
8-Outlet eco PDU	PE6208AVX	Power 3-8
10.1" Touch Panel	VK330	3-22

VK1200 Compact Control Box Gen. 2 with Dual Lan



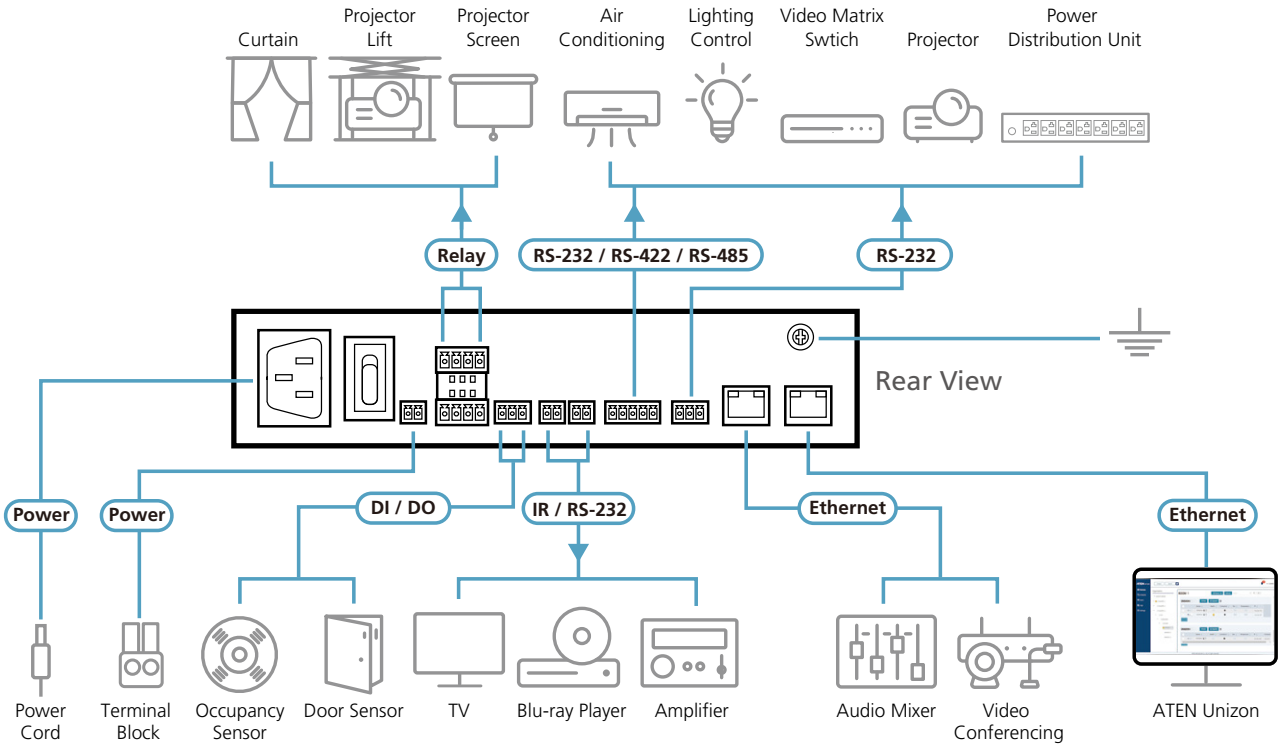


Features

- High performance processor embedded with quad-core CPU and 1 GB memory for designing and controlling complex projects
- Dual, isolated LAN for secured communication among IT devices
- Supports various interface connections for hardware-software integration and mobile device control
- DC outputs for power supply connections
- USB port for easy project upload
- LCD display shows the option for configuration and information display
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports centralized control and management by ATEN Unizon™.
- Supports project file backup
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring
- LED indication of connection and hardware status
- 2 free licenses for mobile control*

Note: If you require more than 2 licenses, contact the local sales representative. For more information on licenses, see Specifications.

Setup › VK1200



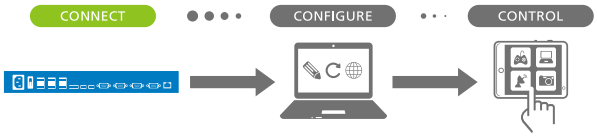
Specifications

	VK1200
Interfaces	
Serial	• 1 x Programmable Bi-directional RS-232/422/485 Port (1x 5-Pole Terminal Block Connectors, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS • 1 x Bi-directional RS-232 Port (1 x3-Pole Terminal Block Connector) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
IR/Serial	• 2 x Programmable IR / Uni-directional RS-232 Ports (1 x 4-Pole Terminal Block Connector); IR: – Carrier Frequency: 10KHz~455KHz; Serial: Uni-directional RS-232 TTL Level (0 - 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
I/O	• 2 x Programmable Digital Input / Output Channels (1 x 3-Pole Terminal Block Connector); Digital Output: 300 mA sink from 24 VDC Digital Input: – VDC Mode Input Voltage Range: 0 to 24 VDC; Programmable Range: 1 to 24 VDC; – Dry Contact Mode Pull-up 2k ohms to + 12 VDC
Relay	• 4 x Relay Channel (2 x 4-Pole Terminal Block Connectors); • Normally open, isolated relays; • Contact Rating: Max 24 VDC, 2A
VDC	• 1 x 12 VDC Output Port (1 x 2-Pole Terminal Block Connector); • Power Supply: 12 VDC, 1A Max
Ethernet	• 2 x RJ-45 Female, 10 / 100 / 1000 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds Control LAN: IP: 192.168.0.60; Subnet Mask: 255.255.255.0 LAN: IP: 192.168.1.60; Subnet Mask: 255.255.255.0
Switches	
Power	1 x On/Off Switch
IR Learning	1 x IR Receiver LED
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A
Power	
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
License	
Basic (free)	2 free licenses
Max. No. Allowed	32 licenses
Carton Lot	3 pcs

Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	13-3
4-Port Serial Expansion Box	VK224	3-15
6-Port IR/Serial Expansion Box	VK236	3-16
8-Channel Relay Expansion Box	VK248	3-17
8-Channel Digital I/O Expansion Box	VK258	3-18
12-Button Keypad (EU, 2 Gang)	VK112EU	3-25
8-Button Keypad (US, 1 Gang)	VK108US	3-26
8-Outlet eco PDU	PE6208AVX	Power 3-8
10.1" Touch Panel	VK330	3-22

VK2100A Control Box Gen.2



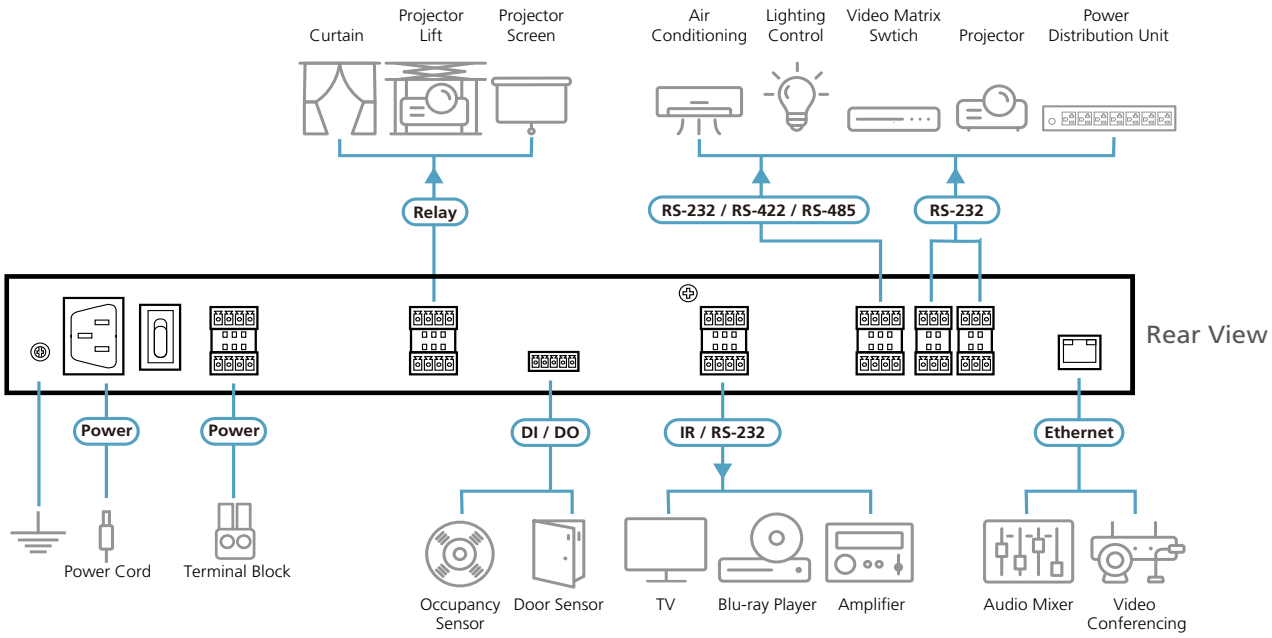


Features

- High-performance processor embedded with quad-core CPU and 1GB memory for designing and controlling complex projects
- Supports various interface connections for hardware-software integration and mobile device control
- DC outputs for power supply connections
- USB port for easy project upload
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- TCP, UDP, Telnet, HTTP, HTTPS, WebSocket, ONVIF, and PJLink compliant
- Supports centralized control and management by ATEN Unizon™
- Supports project file backup
- Web GUI for easy system configuration
- Supports SSH communication for convenient data monitoring
- LED indication of connection and hardware status
- 2 free licenses for mobile control*

Note: If you require more than 2 licenses, contact the local sales representative. For more information on licenses, see Specifications below.

Setup > VK2100A



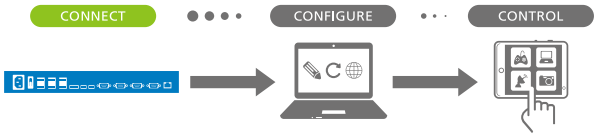
Specifications

	VK2100A
Interfaces	
Serial	• 2 x Programmable Bi-directional RS-232 / 422 / 485 Port (2 x 5-Pole Terminal Block Connector, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) or RTS/CTS • 4 x Bi-directional RS-232 Port (4 x 3-Pole Terminal Block Connector); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
IR/Serial	• 4 x Programmable IR / Uni-directional RS-232 Port (2 x 4-Pole Terminal Block Connector); IR: TTL level (0 to 5 V) – Carrier Frequency: 10 kHz – 455 kHz; Serial: Uni-direc-tional RS-232 (0 to 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
I/O	• 4 x Programmable Digital Input / Output Channel (1 x 5-Pole Terminal Block Connector); Digital Output: 300 mA sink from 24 V DC Digital Input: – VDC Mode: Input Voltage Range: 0 to 24 V DC; Programmable Range: 1 to 24 V DC; – Dry Contact Mode: Pull-up 2k Ω to + 12 V DC
Relay	• 4 x Relay Channels (2 x 4-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 2A
VDC	• 4 x 12 VDC Output Ports (2 x 4-Pole Terminal Block Connectors); • Power Supply: 12 VDC, 2A Max (shared by 4 ports)
Ethernet	• 1 x RJ-45 Female, 10/100/1000Base-T • Supported Protocol: ARP, ICMP, TCP / IP, DHCP, HTTPS, SSH • DHCP mode - The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 ; Subnet Mask: 255.255.255.0
Switches	
Power	1 x On/Off Switch
IR Learning	1 x IR Receiver LED
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A
Power	
Consumption	AC110V: 5.2W; AC220V: 6.5W
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.64 kg (5.81 lb)
Dimensions (L x W x H)	43.72 x 16.32 x 4.40 cm (17.21 x 6.43 x 1.73 in.)
License	
Basic (free)	2 free licenses
Max. No. Allowed	16 licenses
Carton Lot	1 pc
Included Accessories	1x Power Cord; 9x Terminal Blocks; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	13-3
4-Port Serial Expansion Box	VK224	3-15
6-Port IR/Serial Expansion Box	VK236	3-16
8-Channel Relay Expansion Box	VK248	3-17
8-Channel Digital I/O Expansion Box	VK258	3-18
12-Button Keypad (EU, 2 Gang)	VK112EU	3-25
8-Button Keypad (US, 1 Gang)	VK108US	3-26
8-Outlet eco PDU	PE6208AVX	Power 3-8
10.1" Touch Panel	VK330	3-22

VK1100A Compact Control Box Gen.2



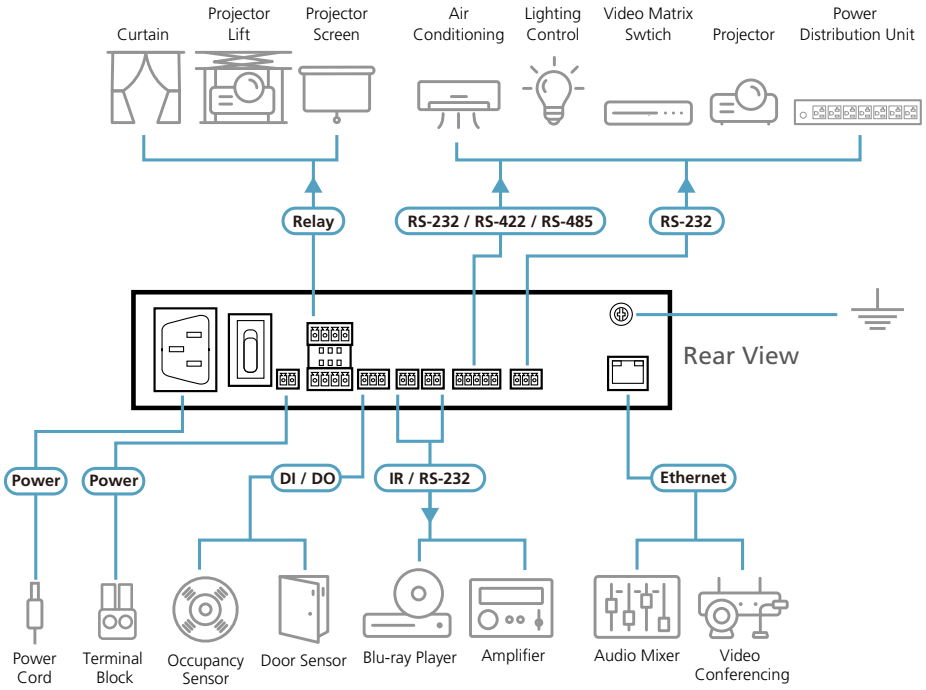


Features

- High-performance processor embedded with quad-core CPU and 512MB memory for designing and controlling complex projects
- Supports various interface connections for hardware-software integration and mobile device control
- DC outputs for power supply connections
- USB port for easy project upload
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- TCP, UDP, Telnet, HTTP, HTTPS, WebSocket, ONVIF, and PJLink compliant
- Supports centralized control and management by ATEN Unizon™
- Supports project file backup
- Web GUI for easy system configuration
- Supports SSH communication for convenient data monitoring
- LED indication of connection and hardware status
- 2 free licenses for mobile control*

Note: If you require more than 2 licenses, contact the local sales representative. For more information on licenses, see Specifications below.

Setup > VK1100A

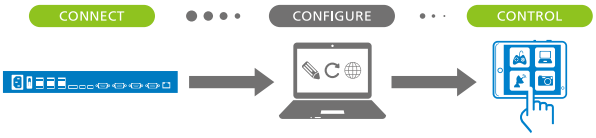


Specifications

	VK1100A
Interfaces	
Serial	• 1 x Programmable Bi-directional RS-232 / 422 / 485 Port (1 x 5-Pole Terminal Block Connector, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) or RTS/CTS • 1 x Bi-directional RS-232 Port (1 x 3-Pole Terminal Block Connector); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
IR/Serial	• 2 x Programmable IR / Uni-directional RS-232 Port (2 x 2-Pole Terminal Block Connector); IR: TTL level (0 to 5 V) – Carrier Frequency: 10 kHz – 455 kHz; Serial: Uni-directional RS-232 (0 to 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2;
I / O	• 2 x Programmable Digital Input / Output Channel (1 x 3-Pole Terminal Block Connector); Digital Output: 300 mA sink from 24 V DC Digital Input: – VDC Mode: Input Voltage Range: 0 to 24 V DC; Programmable Range: 1 to 24 V DC; – Dry Contact Mode: Pull-up 2k Ω to + 12 V DC
Relay	• 4 x Relay Channel (2 x 4-Pole Terminal Block Connectors); • Normally open, isolated relays; • Contact Rating: Max 24 VDC, 2A
VDC	• 1 x 12 VDC Output Port (1 x 2-Pole Terminal Block Connector); • Power Supply: 12 VDC, 1A Max
Ethernet	• 1 x RJ-45 Female, 10/100/1000Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP mode - The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60; Subnet Mask: 255.255.255.0
Switches	
Power	1 x On/Off Switch
IR Learning	1 x IR Receiver LED
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A
Power	
Consumption	AC110V: 4.3W; AC220V: 4.5W
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.19 kg (2.62 lb)
Dimensions (L x W x H)	21.50 x 16.23 x 4.18 cm (8.46 x 6.39 x 1.65 in.)
License	
Basic (free)	2 free licenses
Max. No. Allowed	16 licenses
Carton Lot	3 pcs
Included Accessories	1x Power Cord; 4x Terminal Blocks

Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	13-3
Single Rack Mount Kit	2X-031G	3-15
4-Port Serial Expansion Box	VK224	3-16
6-Port IR/Serial Expansion Box	VK236	3-17
8-Channel Relay Expansion Box	VK248	3-18
8-Channel Digital I/O Expansion Box	VK258	3-25
12-Button Keypad (EU, 2 Gang)	VK112EU	3-26
8-Button Keypad (US, 1 Gang)	VK108US	Power 3-8
8-Outlet eco PDU	PE6208AVX	3-22
10.1" Touch Panel	VK330	2-22



VK0200 12-Button Control Pad (EU, 2 Gang)

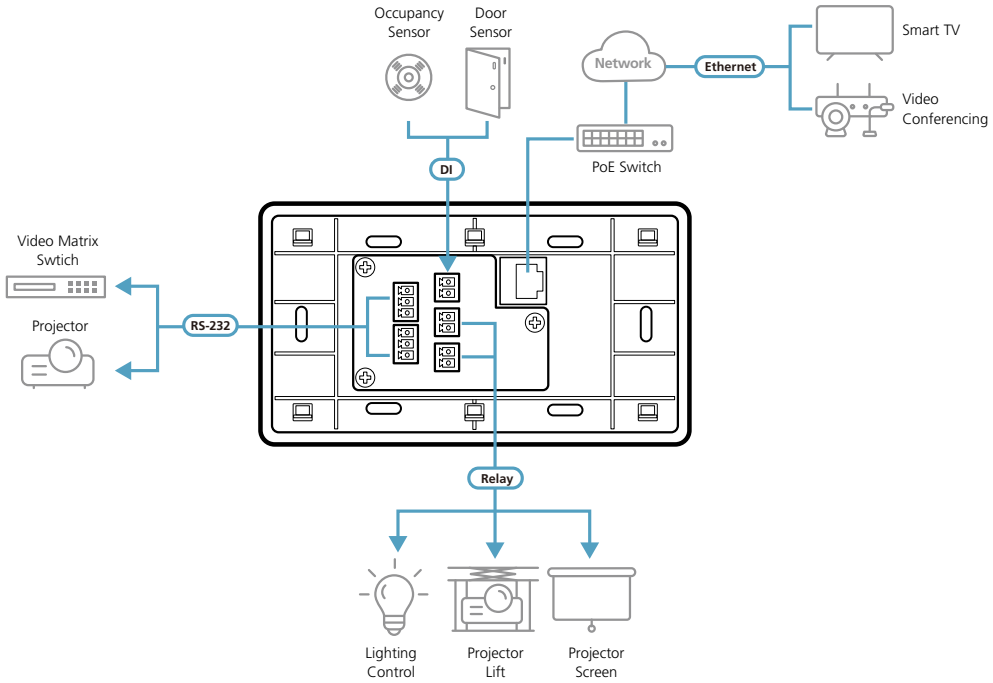


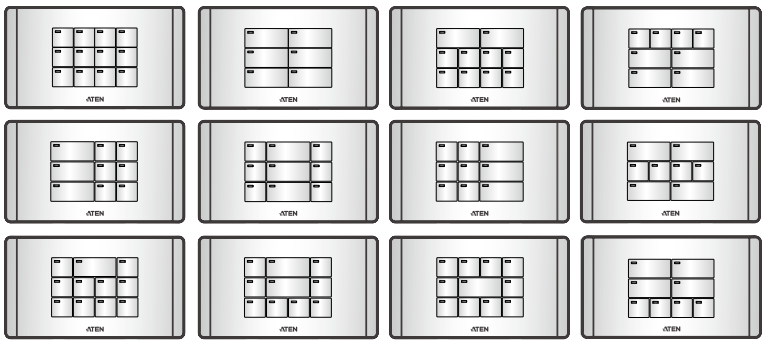


Features

- Supports various interface connections for hardware-software integration and the mobility of control
- Designed to mount in 2-gang EU-type and MK-type junction boxes
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- Available in black or white color
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Enables centralized control and management of devices with ATEN Unizon™
- Supports project file backup
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring
- LED indication of connection and hardware status
- Dual-color LEDs for clear indication in dark environments
- Supports Power over Ethernet (PoE) or DC power supply
- Customized button engraving service

Setup > VK0200





Custom button placement on the Control Pad can be set in 125 different combinations of 6 to 12 buttons. The example above shows the 12 most commonly used.

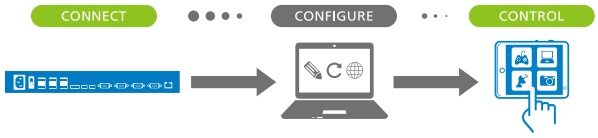
Specifications

	VK0200
Interfaces	
Keypad Layout	6~12 buttons customizable in 125 keypad layouts
Serial	• 2 x Bi-directional RS-232 Port (2 x 3-Pole Terminal Block Connector); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), even or odd
Relay	• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 1A
I/O	• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector); – VDC Mode Input Voltage Range: 0 to 5 VDC; Programmable Range: 1 to 5 VDC; – Dry Contact Mode Pull-up 2k ohms to + 5 VDC
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power Consumption	DC5V: 1.15W; DC48V: 1.44W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.19 kg (0.42 lb)
Dimensions (L x W x H)	8.32 x 14.76 x 4.80 cm (3.28 x 5.81 x 1.89 in.)
Faceplate Dimensions (L x W x H)	8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)
License	
Max. No. Allowed	10 licenses
Carton Lot	5 pcs
Included Accessories	1x Button Pack; 6x Terminal Blocks; 1x Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
4-Port Serial Expansion Box	VK224	3-15
6-Port IR/Serial Expansion Box	VK236	3-16
8-Channel Relay Expansion Box	VK248	3-17
8-Channel Digital I/O Expansion Box	VK258	3-18
8-Outlet eco PDU	PE6208AVX	Power 3-8
10.1" Touch Panel	VK330	3-22

VK0100 8-Button Control Pad (US, 1 Gang)

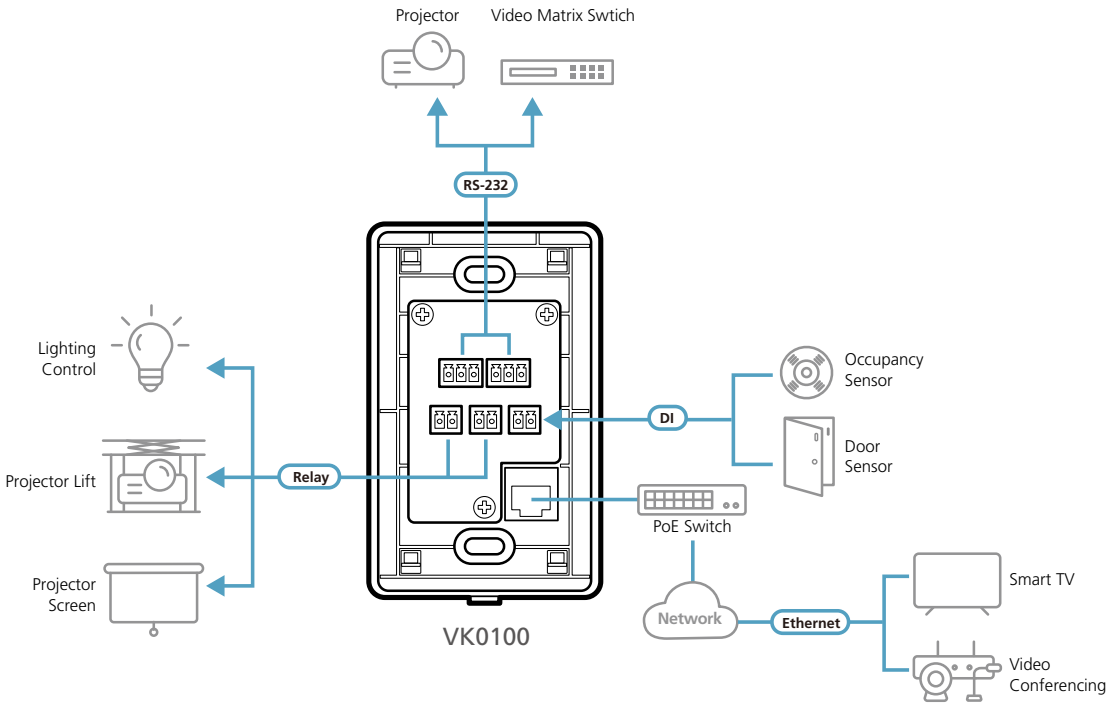


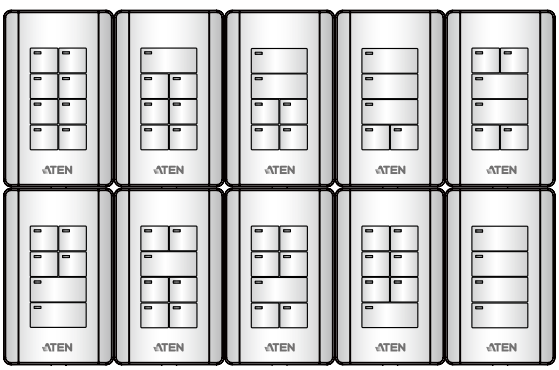


Features

- Supports various interface connections for hardware-software integration and the mobility of control
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- Available in black or white color
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Enables centralized control and management of devices with ATEN Unizon™.
- Supports project file backup
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring
- LED indication of connection and hardware status
- Dual-color LEDs for clear indication in dark environments
- Supports Power over Ethernet (PoE) or DC power supply
- Customized button engraving service

Setup > VK0100





Custom button placement on the Control Pad can be set in 14 different combinations of 4 to 8 buttons. The example above shows the 10 most commonly used.

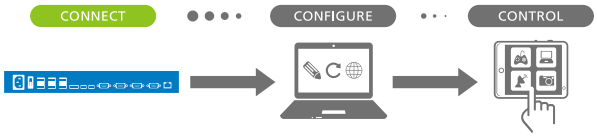
Specifications

	VK0100
Interfaces	
Keypad Layout	4~8 buttons customizable in 14 keypad layouts
Serial	• 2 x Bi-directional RS-232 Port (2 x 3-Pole Terminal Block Connector); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), even or odd
Relay	• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 1A
I/O	• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector); – VDC Mode Input Voltage Range: 0 to 5 VDC; Programmable Range: 1 to 5 VDC; – Dry Contact Mode Pull-up 2k ohms to + 5 VDC
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power Consumption	DC5V: 1.1W; DC48V: 1.375W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.16 kg (0.35 lb)
Dimensions (L x W x H)	11.63 x 7.06 x 4.80 cm (4.58 x 2.78 x 1.89 in.)
Faceplate Dimensions (L x W x H)	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)
License	
Max. No. Allowed	10 licenses
Carton Lot	5 pcs
Included Accessories	1x Button Pack; 6x Terminal Blocks; 1x Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
4-Port Serial Expansion Box	VK224	3-15
6-Port IR/Serial Expansion Box	VK236	3-16
8-Channel Relay Expansion Box	VK248	3-17
8-Channel Digital I/O Expansion Box	VK258	3-18
8-Outlet eco PDU	PE6208AVX	Power 3-8
10.1" Touch Panel	VK330	3-22

VK224 4-Port Serial Expansion Box



Front



Rear



Features

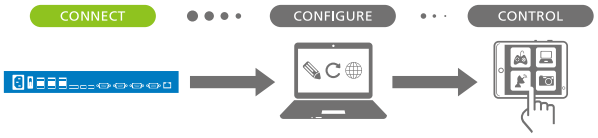
- Provides 4 bi-directional RS-232/422/485 serial ports to expand the ATEN Control System
- Up to 8 VK224 expansion boxes can be added to a single ATEN controller
- Flexible deployment: connects to a ATEN controller via an Ethernet connection
- ID Switch pairs the VK224 with a ATEN controller to instantly configure the network settings
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB, firmware upgrade tool, or web interface

Specifications

	VK224
Interfaces	
Serial	• 4 x Programmable Bi-directional RS-232/422/485 Port (4 x DB9 Male Connector, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A (Firmware upgrade only)
Power	
Consumption	DC5V: 3.8W; DC48V: 4.75W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.45 kg (0.99 lb)
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	1x Mounting Kit

RS-232	RS-422	RS-485
Pin2: RX	Pin 1:RX-	Pin3:D+
Pin3: TX	Pin 2: RX+	Pin 4:D-
Pin 5: GND	Pin 3: TX+	
Pin 7: RTS	Pin 4: TX-	
Pin 8: CTS	Pin 5: GND	

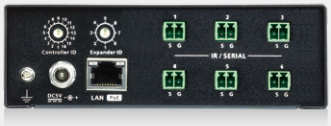
VK236 6-Port IR/Serial Expansion Box



Front



Rear



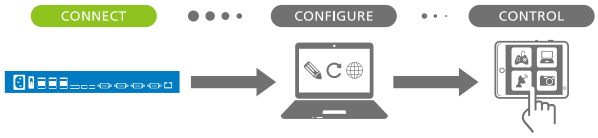
Features

- Provides 6 IR / RS-232 ports to expand the ATEN Control System
- Up to 8 VK236 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK236 with a controller to instantly configure the network settings
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB, USB or Web interface

Specifications

	VK236
Interfaces	
IR/Serial	• 6 x Programmable IR / Uni-directional RS-232 Port 6 x 2-Pole Terminal Block Connector IR: – Carrier Frequency: 10KHz~455KHz; Serial: Uni-directional RS-232 (+ - 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A (Firmware upgrade only)
Power	
Consumption	DC5V: 1.31W; DC48V: 1.64W
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)
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	6x Terminal Blocks; 1x Mounting Kit

VK248 8-Channel Relay Expansion Box



Front



Rear



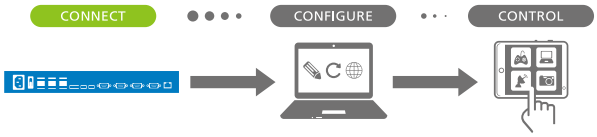
Features

- Provides 8 relay channels to expand the ATEN Control System
- Up to 8 VK248 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK248 with a controller to instantly configure the network settings
- Provides DC power to power I/O or other low power consumption devices that require an extra power supply
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB or Web interface

Specifications

	VK248
Interfaces	
Relay	• 8 normally open relays (8 x 2-pole terminal block) • Contact Rating: Max 24 VDC, 2A
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A (Firmware upgrade only)
Power	
Consumption	DC5V: 2.82W; DC48V: 3.53W
Output	12 VDC, 300 mA
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg (1.43 lb)
Dimensions (L x W x H)	20.00 x 7.58 x 4.20 cm (7.87 x 2.98 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	9x Terminal Blocks; 1x Mounting Kit

VK258 8-Channel Digital I/O Expansion Box



Front



Rear



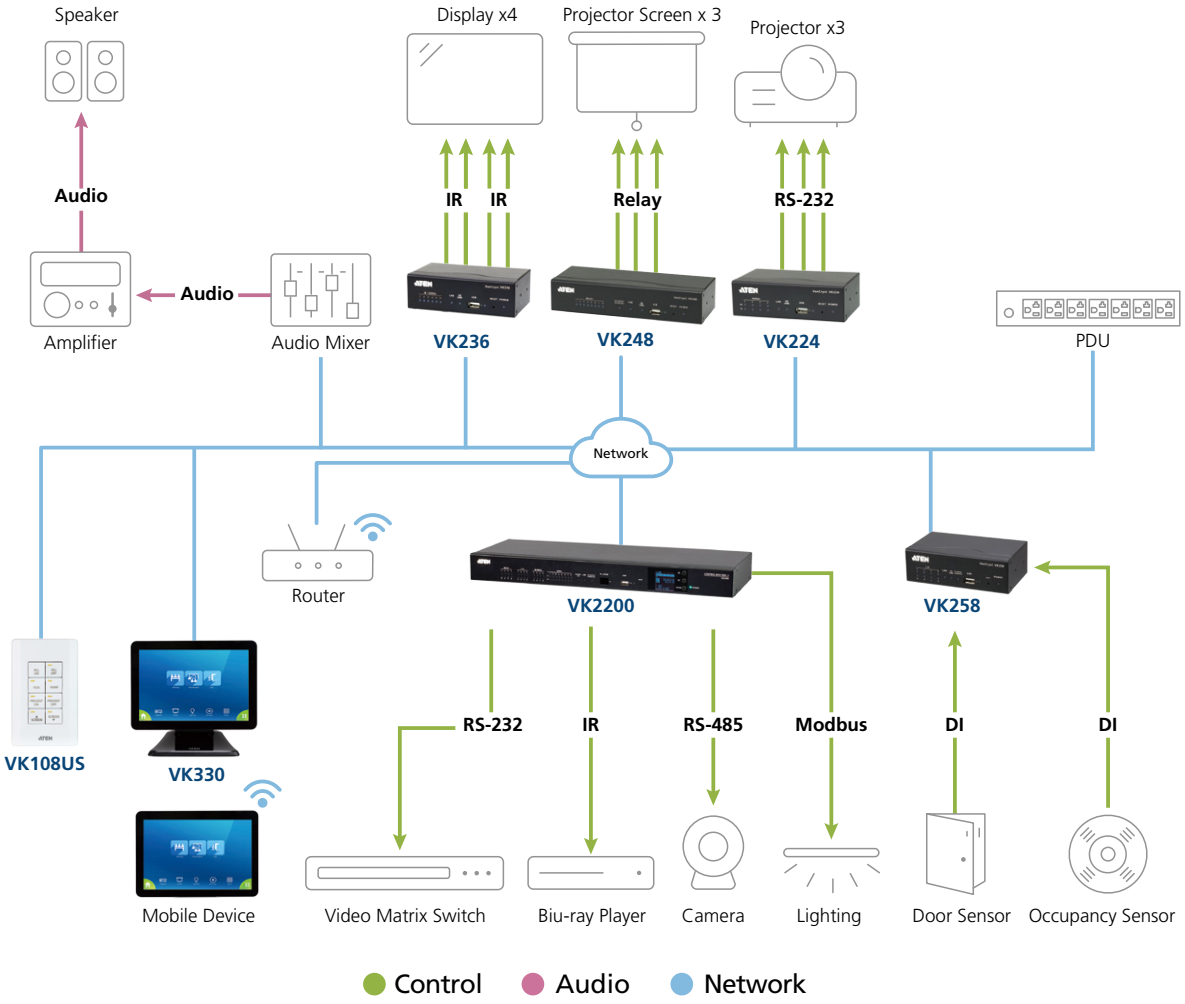
Features

- Provides 8 Digital I/O channels to expand the ATEN Control System
- Up to 8 VK258 expansion boxes can be added to a single ATEN controller
- Flexible Deployment – connects to a controller via an Ethernet connection
- ID Switch pairs the VK258 with a controller to instantly configure the network settings
- Provides DC power to power I/O or other low power consumption devices that require an extra power supply
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB, firmware upgrade tool, or web interface

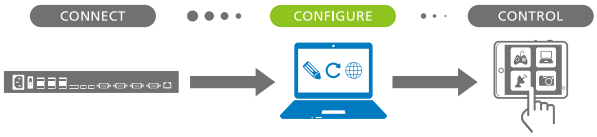
Specifications

	VK258
Interfaces	
I/O	• 8 x Programmable Digital Input / Output Channel (8 x 2-Pole Terminal Block Connector) Digital Input: – VDC Mode Input Voltage Range: 0 to 24 VDC Programmable Range: 1 to 24 VDC – Dry Contact Mode Pull-up 2k ohms to +12 VDC Digital Output: 300 mA sink from 24 VDC
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A (Firmware upgrade only)
Power Consumption	DC5V: 2.2W; DC48V: 2.75W
Power	
Output	12 VDC, 300 mA
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.46 kg (1.01 lb)
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	9x Terminal Blocks; 1x Rack Mount Kit

Expandable Solution › with VK2200 Control Box and Expansion Boxes (VK224+VK236+VK248+VK258+VK108US)



VK6000 Configurator Software

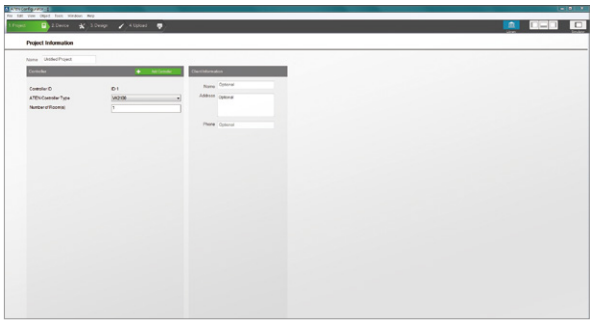




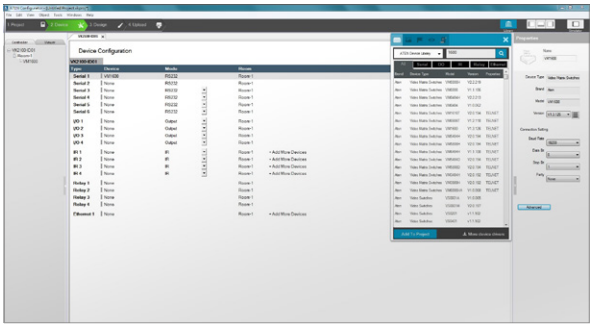
Features

- Simple profile setup with easy configuration steps via intuitive GUI
- Customizable GUI to be used on mobile devices and PC
- Supports ControlAssist that allows PC control (PC shutdown, media files, PowerPoint files)
- Built-in Database Generator for device driver setup and overall device management
- Built-in ATEN Library comprising 10,000+ device drivers and complete ATEN Pro AV product drivers
- Scheduling for repeating events
- Programming-based Script Editor for complex monitoring scenario handling
- Two-way communication enables user-defined event monitoring to automatically trigger the next actions
- Status synchronization of managed devices across multiple mobile devices
- Test tool to verify commands in action before uploading the profile to the ATEN Controllers
- Simulator to simulate and review the customized GUI before uploading

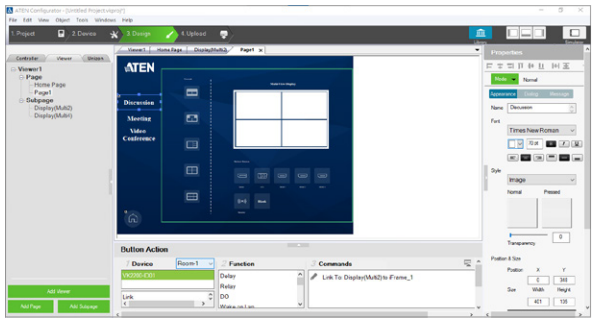
1 Start Project



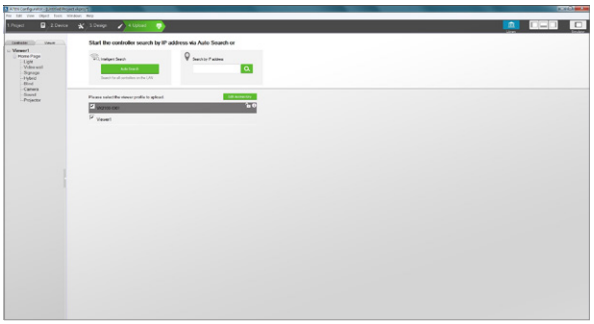
2 Configure Device



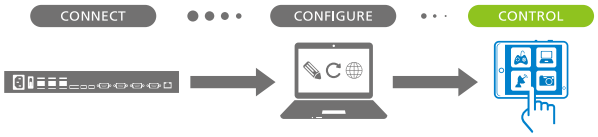
3 Create Viewer



4 Upload Profile



ControlAssist





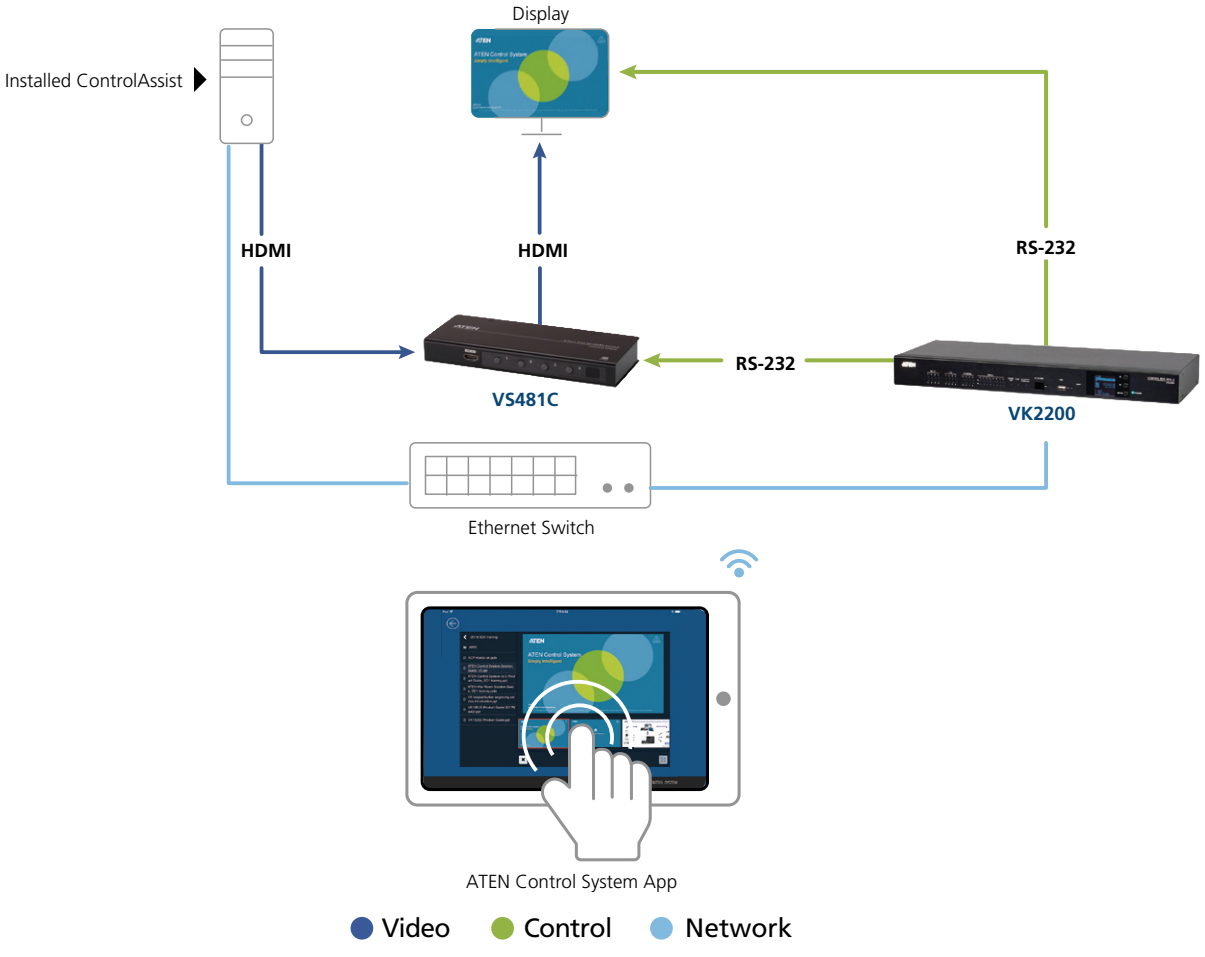


Features

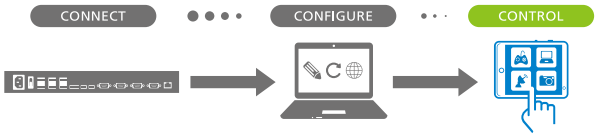
- Remote PC Control function
  - Remote PC shutdown*
  - Remote browsing and control of media files
  - Remote preview and control of PowerPoint files
  - Remote PC volume control
  - Remote execution of programs
  - Remote opening of files and URLs
- Simulate hotkey combination for 3rd party software control
- Support Windows prompt commands
- Keep an application window on top of other windows

* Note: Remote PC power on can be done via Wake on LAN function

PC Control Through ControlAssist



VK330 10.1" Touch Panel



VK330



VK304 (Tabletop Kit)



VK330 + VK304

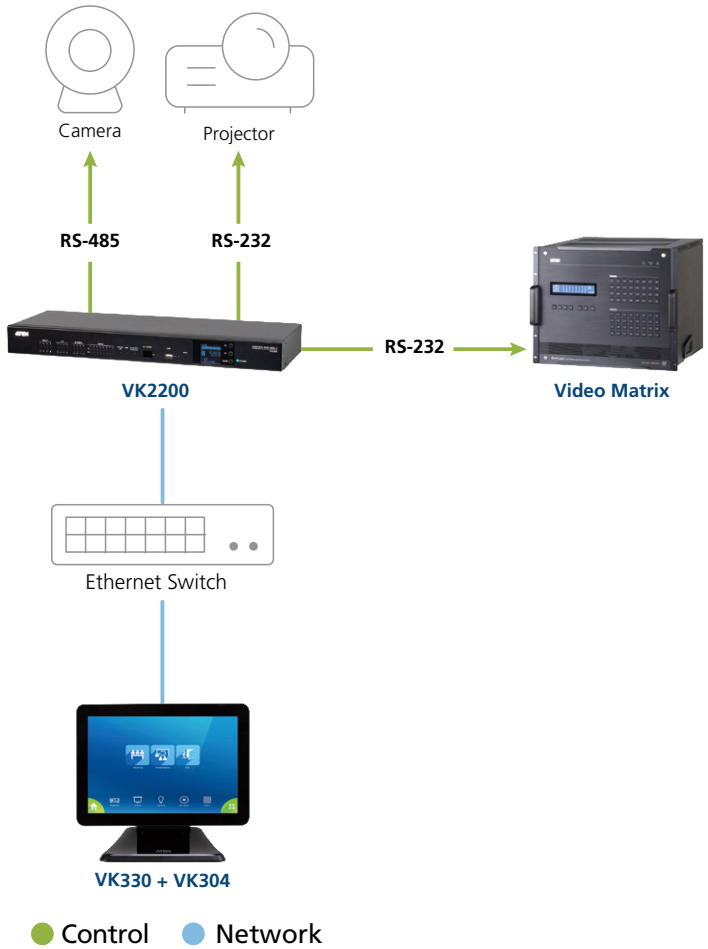


The Touch Panel VK330 and the Tabletop Kit VK304 are sold separately.

Features

- 10.1" touch panel
- Natively installed ATEN Control System app and designed for the integrated use with the ATEN Control System
- Supports Power over Ethernet (PoE), which allows it to receive power and communication over a single Ethernet cable
- Capacitive multi-touch screen
- Flexible installation and available for the additional tabletop kit (ATEN VK304) and wall mount kit (ATEN VK302), and compatible for any standard VESA 75 x 75 mm mounts

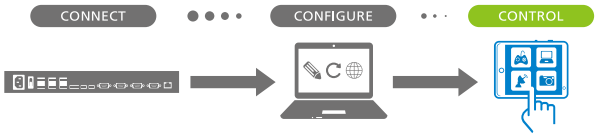
Setup > VK330



Specifications

	VK330
Touch Panel Display	
Display Type	TFT-LCD
Size	10.1"
Touch Screen	Capacitive
Resolution	1280 x 800
Aspect Ratio	16:10
Color Depth	8 bit
Contrast Ratio	800:1
Backlight	LED
Viewing Angle	± 85° (H), ± 85° (V)
Interfaces	
Ethernet	1 x RJ-45 Female, 10 / 100 / 1000 BaseT
USB	1 x USB Type-A
Power Inputs	
Power over Ethernet (PoE)	802.3 af PoE / 802.3 at PoE+
Power Consumption	DC48V:14W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-10 – 55°C
Humidity	10 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.62 kg (1.37 lb)
Dimensions (L x W x H)	25.20 x 17.78 x 2.45 cm (9.93 x 7 x 0.96 in.)
Carton Lot	3 pcs
Optional Accessories	Wall Mount Kit (VK302); Tabletop Kit (VK304)

Mobile App





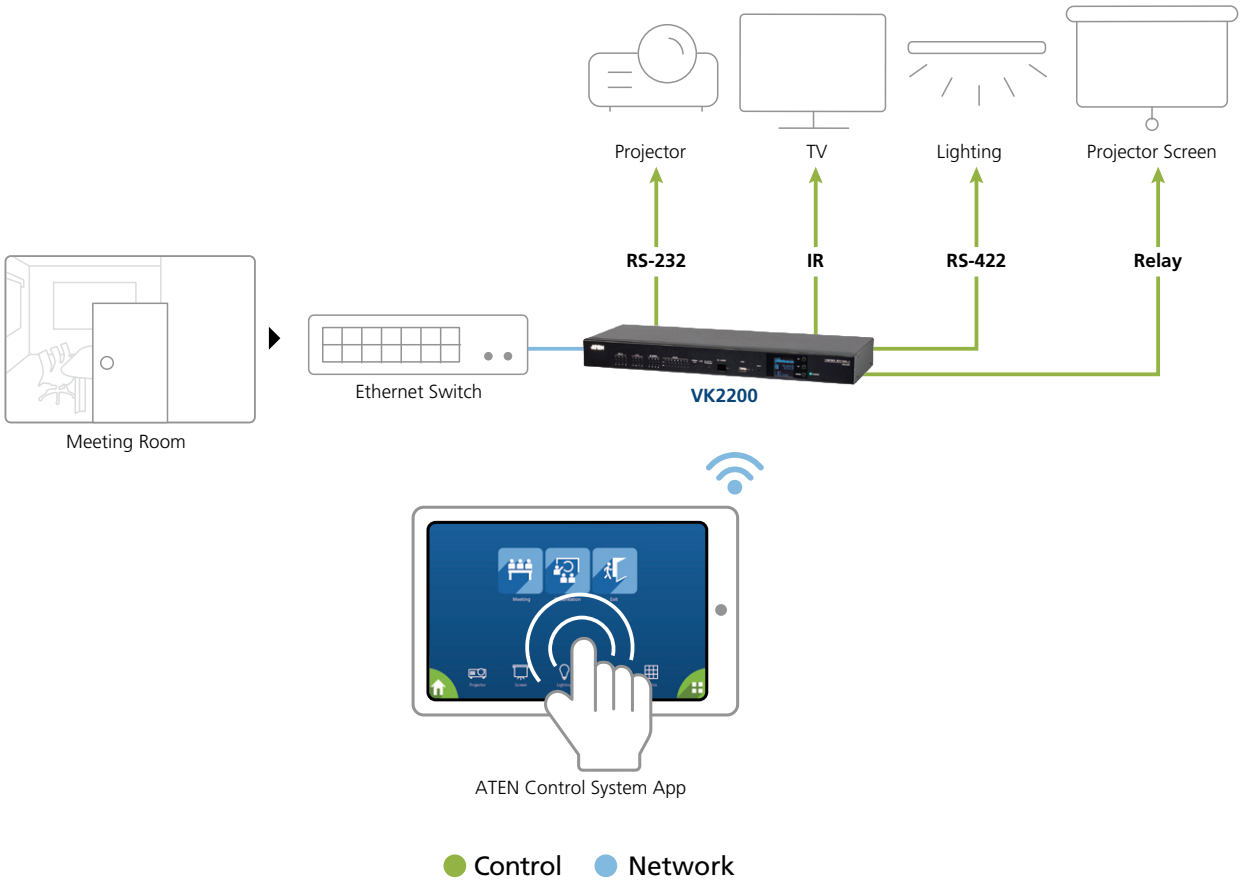
ATEN Control System Mobile App

Android iOS Windows

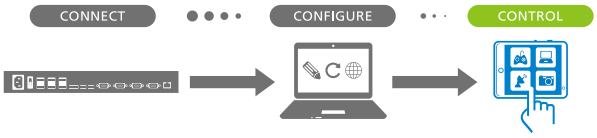
Features

- Enables central control of multiple rooms via profiles on a mobile device
- Password authentication ensures control security
- Synchronization of system controls amongst multiple mobile devices
- iOS, Android, and Windows compatible
- Free of charge – no need to purchase

Multi-Room Control > Central Administration



VK112EU 12-Button Keypad (EU, 2 Gang)







Features

- Key pad - provides physical connection to the ATEN Control System
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- Available in black or white color
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box for future scalability
- Versatile modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies with Power over Ethernet (PoE) and DC power
- Customized button engraving service

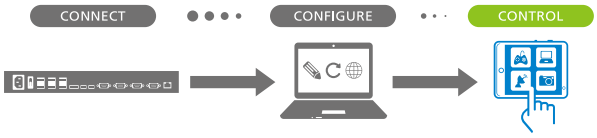
Specifications

	VK112EU
Interfaces	
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Keypad Layout	6~12 buttons customizable in 125 keypad layouts
Switches	
Controller ID	1 x 16-segment Switch
Keypad ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power	
Consumption	DC5V:1.25W:6BTU; PoE:1.56W:7BTU
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.17 kg (0.37 lb)
Dimensions (L x W x H)	8.32 x 14.76 x 4.80 cm (3.28 x 5.81 x 1.89 in.)
Faceplate Dimensions (L x W x H)	8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1x Button Pack; 1x Terminal Block; 1x Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	11-1
Low Skew Cat 5e Cable	2L-2801	11-3

VK108US 8-Button Keypad (US, 1 Gang)





Features

- Key pad - provides physical connection to the ATEN Control System
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- Available in black or white color
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box for future scalability
- Unrestricted modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Supports Power over Ethernet (PoE) or DC power supply
- Customized button engraving service

Specifications

	VK108US
Interfaces	
Ethernet	• 1 x RJ-45 Female, 10 / 100 BaseT • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Keypad Layout	4~8 buttons customizable in 14 keypad layouts
Switches	
Controller ID	1 x 16-segment Switch
Keypad ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power	
Consumption	DC5V: 1.25W; DC48V: 1.58W
Environmental	
Operating Temperature	0 – 50°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)	11.63 x 7.06 x 3.89 cm (4.58 x 2.78 x 1.53 in.)
Faceplate Dimensions (L x W x H)	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1x Button Pack; 1x Terminal Block; 1x Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cat 5e Cable	2L-2801	12-3

Presentation Switches

ATEN multi-in-one presentation switches are available in a variety of configurations with extensive AV transmission, conversion, and processing capabilities, which remove the need for numerous individual components and eliminate compatibility challenges during setup.

This series features user-centric control methods including front panel pushbuttons with intuitive OSD, Web GUI, a mobile app, and remote pad, as well as IR, RS-232, and Ethernet for control integration that streamlines user operations. All models are tailor-made with unique features to satisfy application demands, from simple presentation source switching to advanced collaboration and remote participation in meeting rooms, conference rooms, classrooms, lecture halls, and more.



VP1000 Core Series

- **Superior Video up to True 4K, HDR**
  The Core Series features models with up to 4K and True 4K resolutions that support popular HDR formats, delivering more vivid and vibrant video than ever before.
- **Multi-format AV Interface Support**
  Provides diverse legacy and modern AV interfaces including HDMI, DisplayPort, VGA, HDBaseT, Component/ Composite video with support for Stereo, Coaxial, Toslink, and Optical audio outputs, giving you the connections you need.
- **Compact Solution in One Enclosure**
  Integrates additional AV processing capabilities, such as HDBaseT connectivity, audio mixing, and microphone support, and provides an economical and efficient all-in-one solution to minimize your setup efforts as well as total cost of ownership.

VP2000 Collaborative Series

- **Seamless Switch™ for Ultra Smooth Transitions**
  Enables real-time control and zero-delay switching between multiple sources for uninterrupted experiences while transitioning from one presentation source to another.
- **Bi-directional Streaming for Remote Sharing**
  Flexibly share presentation content wirelessly via the VP Web GUI and Mobile App with any mobile device from anywhere on the intranet.
- **Advanced Collaboration Features**
  Features collaboration functions such as the Whiteboard and Chat Room that enhance teamwork or group discussions, as well as the Moderator Mode for more complicated meeting settings where control over meeting flow is required.

VP3000 All-in-one Series

- **Presentation Matrix Switch with Smart Control**
  Multiple control options such as front panel pushbuttons, IR, RS-232 and web-based GUI to enable control over AV devices including TV displays, projectors, and monitors, with flexible source control via function keys and automatic source detection.
- **Seamless Switch™ and 4K Scaler**
  Employs an FGPA matrix architecture for continuous video streams, real-time control, and stable signal transmissions, while the 4K scaler converts various input resolutions to various output resolutions, ensuring the best picture quality across two displays.
- **Advanced AV Integration**
  Features advanced technologies such as audio DSP, amplifier, and HDBT™ to deliver near-perfect visual symmetry and sound quality that help keep your presentation looking great and sounding perfect.

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



Specifications at a Glance

Series	All-in-One Series	Collaborative Series		Core Series		
Model	VP3520	VP2730	VP2120	VP1421	VP1420	VP1920
Max. Resolution	HDMI: 4K@60Hz (4:4:4) HDBaseT: 4K@ 60Hz (4:2:0) ; 4K@ 30Hz (4:4:4)	HDMI/DP: 1080p@60Hz VGA/Analog: 1920 x 1200@60Hz	HDMI: 1080p@60Hz	HDMI: 4K@60Hz (4:4:4) VGA: 1920 x 1200@60Hz HDBaseT: 4K@60Hz (4:2:0); 4K@30Hz (4:4:4)	HDMI: 4K@60Hz (4:4:4) VGA: 1920 x 1200@60Hz	HDMI/DP: 4K@60Hz (4:2:0); 4K@30Hz (4:4:4) VGA/Analog: 1920 x 1200@60Hz
HDCP	HDCP 2.2	HDCP 1.4	HDCP 1.4	HDCP 2.2	HDCP 2.2	HDCP 1.4
Video Inputs						
HDMI	3	5	1	2	3	6
HDBaseT	2	N/A	N/A	1	N/A	N/A
DisplayPort	N/A	1	N/A	N/A	N/A	1
VGA	N/A	1	N/A	1	1	1
Component/ Composite	N/A	N/A	N/A	N/A	N/A	2
Video Outputs						
HDMI	1	2	2	1	2	2
HDBaseT	1	1	N/A	1	N/A	N/A
Audio						
Audio Input	HDMI, Stereo, Microphone	HDMI/ DP, Stereo, Balanced, Microphone	HDMI, Microphone	HDMI, Stereo, Microphone	HDMI, Stereo	HDMI, Stereo, Component/ Composite
Audio Output	HDMI, Line Out, Coaxial, Amplifier out	HDMI, Stereo, Optical, Coaxial	HDMI, Stereo	HDMI, Optical, Line Out (Unbalanced)	Line Out (Unbalanced)	HDMI, Stereo, Optical, Coaxial
Audio DSP/Audio Mixer	Audio DSP	Audio Mixer	Audio DSP	Audio DSP	N/A	N/A
Audio Embedding/ De-embedding	•	•	•	•	•	•
Phantom Power	•	•	N/A	•	N/A	N/A
Features						
Streaming In	N/A	1	4	N/A	N/A	N/A
Streaming Out	N/A	5	4	N/A	N/A	N/A
Seamless Switch™	•	•	•	N/A	N/A	N/A
Scaler	•	•	•	•	•	N/A
Preview	N/A	•	N/A	N/A	N/A	•
Multiview	N/A	•	•	N/A	N/A	N/A
Auto Switching	•	•	•	•	•	•
Collaboration Features	N/A	Moderator Mode	Whiteboard; Chat Room	N/A	N/A	N/A
USB Keyboard/ Mouse/Peripherals Control	N/A	N/A	N/A	N/A	N/A	•

VP3520 5 x 2 True 4K Seamless Presentation Matrix Switch with Control

A/V In HDMI | A/V Out HDMI | A/V In HDBaseT | A/V Out HDBaseT | Audio Out Line Out | Audio In Microphone | Audio In Stereo | Scaler | Auto Switching | RS-232 Control | IR Remote Control | Phantom Power | PoH | HDCP 2.2 | EDID

Front



Rear



Features

Display Control
- Auto display on / off control – supports display control through CEC, IR, RS-232, PJLink and controls projector screen through relay port
- Flexible control methods – triggered by source detection or 4 function keys on front panel

Digital AV Matrix Switching
- Supports multi-format 5 inputs – 3 HDMI, 2 HDBaseT
- 1 HDMI and 1 HDBaseT output
- Audio embedding – stereo audio can be embedded into display output or separated to stereo line out and coaxial audio output
- Audio de-embedding – HDMI / HDBaseT audio can be extracted to stereo line out
- Built-in Audio DSP – supports microphone input with selectable 48 V Phantom Power and allows microphone input to be mixed with program audio and embedded into display output
- Automatically reduces program audio when a microphone signal is detected
- Auto switching – automatically detects and switches to a new source as soon as it is connected
- Audio amplifier – 2 x 10 W built-in power amplifier with speaker outputs on terminal block connectors

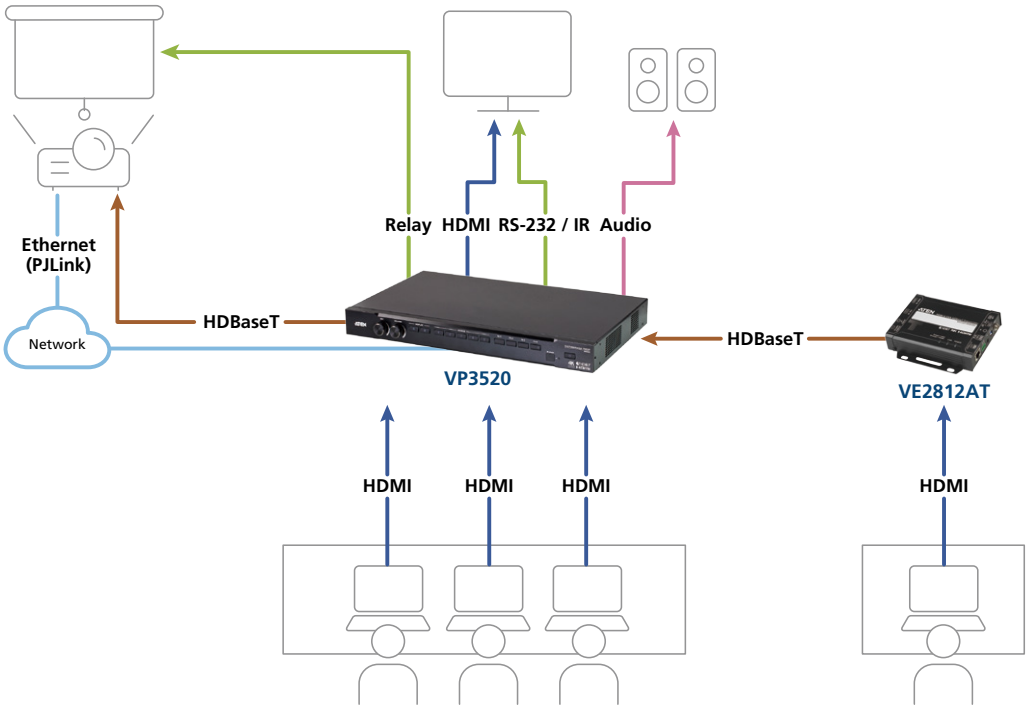
High-Definition Video with Optimum Output
- Superior video quality – True 4K resolutions up to 4096 x 2160 @ 60 Hz (4:4:4) (HDMI) / 4096 x 2160 @ 60 Hz (4:2:0) (HDBaseT)
- Supports 4K HDR
- 4K Scaler –features a 4K video scaler to convert input resolutions to the optimum display resolutions
- Seamless Switch™ –features close-to-zero second switching for continuous video streams, real-time switching, and stable signal transmissions
- EDID Expert™ –automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across the connected devices
- HDMI; HDCP 2.2 compliant

Versatile, Streamlined Operation
- Versatile, Streamlined Operation
- Multiple control options – flexible control via front-panel pushbuttons, IR remote control, RS-232, and web-based GUI through Ethernet
- RS-232 and IR channel – allows AV device control over HDBaseT connection without additional cabling
- Supports stand-by mode for power saving and fast waking up
- Consumer Electronics Control (CEC) support

Extended Transmission over One Cable
- Power over HDBaseT (PoH) – remote powering over existing communication cable with selectable powering device
- Long-distance transmission – transmits digital AV signal, RS-232 commands, and IR control signals up to 70 m* via Cat 6/6a or ATEN 2L-2910 Cat 6 cables through HDBaseT Out port

Note: This is achieved using both the HDBaseT In and the HDBaseT Out ports on the VP3520 with each extending the transmission up to 70 m.

Setup > VP3520



Specifications

	VP3520
Video Input	
Interfaces	3 x HDMI Type-A Female (Black) 2 x HDBaseT (RJ-45) Female (Silver) with PoH
Max. Distance	HDMI: 4K @ 60 Hz (4:4:4) at 5 m; 4K @ 30 Hz at 10 m; 1080p @ 60 Hz at 15 m HDBaseT: 4K @ 30 Hz at 35 m (Cat 5e / 6) / 40 m (Cat 6a / ATEN 2L-2910 Cat 6); 1080p @ 60 Hz at 60 m (Cat 5e / 6) / 70 m (Cat 6a / ATEN 2L-2910 Cat 6)
Video Output	
Interfaces	1 x HDMI Type-A Female (Black) 1 x HDBaseT (RJ-45) Female (Silver) with PoH
Max. Distance	HDMI: 4K @ 60 Hz (4:4:4) at 5 m; 4K @ 30 Hz at 10 m; 1080p @ 60 Hz at 15 m HDBaseT: 4K @ 30 Hz at 35 m (Cat 5e / 6) / 40 m (Cat 6a / ATEN 2L-2910 Cat 6); 1080p @ 60 Hz at 60 m (Cat 5e / 6) / 70 m (Cat 6a / ATEN 2L-2910 Cat 6)
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:4:4) HDBaseT: Up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:2:0) ; Up to 4096 x 2160 / 3840 x 2160 @ 30 Hz (4:4:4)
Compliance	HDMI; 4K HDR HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole Digital Audio: 1 x Coaxial Amplifier out: 1 x Captive Screw Connector, 4-pole
Input	Stereo Audio (HDMI / HDBaseT): 1 x mini stereo Jack Female (Green) Microphone: 1 x Captive Screw Connector, 3-pole (with Selectable Phantom Power)
Control	
RS-232	1x DB-9 Female (Black); VP Device Control & Configuration 1 x Captive Screw Connector, 3-pole ; AV Device Control
IR	1 x Mini Stereo Jack Female (Black); VP Device Control 1 x Captive Screw Connector, 2-pole; AV Device Control
Ethernet	1 x RJ-45 Female (Silver); Support PJLink Protocol
Interfaces	
Relay	2 x Captive Screw Connector, 2-pole
Switches	
Power	1 x Pushbutton (LED: Green / Orange) 1 x Slide Switch (+48 V Phantom Power)
Video Input Port Selection	5 x Pushbutton (LED: Green)
Video Output Port Selection	2 x Pushbutton (LED: Orange)
Selection	Mic: 1 x Knob Volume: 1 x Knob Mode / Unlock: 1 x Pushbutton Function Keys: 4 x Pushbutton
EDID Settings	EDID Mode: ATEN Default / Display A / Remix
Connectors	
Power	1 x 3-Prong AC Socket
Power Consumption	AC110V:46.7W; AC220V:45.8W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	3.80 kg
Dimensions (L x W x H)	43.24 x 27.23 x 4.40 cm
Carton Lot	1 pc
Included Accessories	1 x IR Receiver; 1 x IR Remote Control; 1 x Power Cord; 2 x Terminal Blocks; 4 x Foot Pads

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
DisplayPort Cable*	2L-7D02DP (2 m)	12-8
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0110G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
HDBaseT Cat 6 Cable	2L-2910	12-2
Rack Mounting Kit	2X-043G	13-3
Under Table Mounting Kit	2X-044G	13-3

*Cables with different lengths are available; please refer to 12-7 and 12-8.

VP2730 7 x 3 Seamless Presentation Matrix Switch with Scaling, Streaming, Audio Mixer, and HDBaseT

RS-232 Control | IR Remote Control | EDID | Scaler | Seamless Switch | Auto Switching | RGB | Phantom Power | Streaming | Source Preview

AV In/Out HDMI | A/V In DisplayPort | Video In HDB-15 | A/V Out HDBaseT | Audio In Microphone | Audio In Balanced | Audio In/Out Stereo | Audio Out Toslink | Audio Out RCA | Audio Out Coaxial

Front



Rear



Features

Seamless Multi-format AV Switching

- Supports multi-format 7 Inputs:
  - 2 combo inputs (HDMI/VGA, HDMI/DisplayPort)
  - 3 HDMI inputs
- 2 HDMI and 1 HDBaseT outputs
- Superior video quality up to 1080p @ 60Hz (HDMI/DisplayPort)
- Ultra Seamless Switch™ – zero second switching that provides continuous video streams, real-time switching and stable signal transmissions
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Flexible aspect ratio conversion

1080p Streaming for Distance-free Sharing and Collaboration

- Go Live – meeting moderator can broadcast HD video streams to up to 5 remote locations
- Streaming In – remote locations can stream and share content to the meeting moderator at any distance via the intuitive web GUI
- Streaming Queuing – shares the streamed-in content approved by the meeting moderator one at a time to help manage the meeting flow

Audio Mixer Integration for Advanced Applications

- Audio Mixer – allows mixing of the microphone inputs to any external analog or digital audio output device
- Embed/De-embed Audio – HDMI/DisplayPort audio signals can be extracted to separate digital/analog audio signals; Mic/Line audio can be embedded to HDMI audio
- Supports multi-format digital/analog audio outputs, including coaxial, TOSLINK, and RCA

Advanced Conferencing Management Features for Collaboration

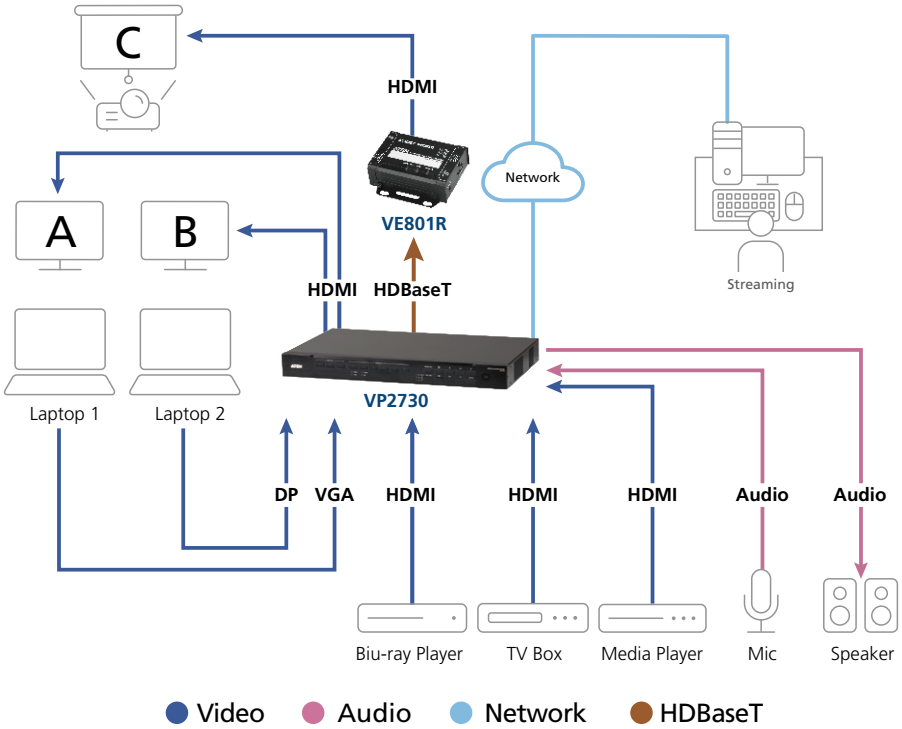
- Multi-view – displays and switches simultaneously in any variation of full-screen, dual-view, tri-view, quad-view, or PIP modes, with up to six sources displayed simultaneously on one screen
- Moderator Mode – enables the meeting moderator control other displays via host display
- Chat Room – facilitates real-time and precise communication among remote participants
- Screen Capture – captures anything on your screen with a click
- Freeze – freezes the screen for discussion or to control the meeting flow

Streamlined Operation

- View and control via ATEN Video Presentation Control App in a swift and agile way
- Multiple Control Options – flexible control via built-in Web UI, Front Panel, OSD, IR Remote Control, RS-232, Mobile App and VPK312.
- Auto switching – automatically detects and switches to a new source as soon as it is connected

Note: VP2730 is compatible with VPK312K1. Please refer to 3-14.

Setup > VP2730



Specifications

	VP2730
Video Input	
Interfaces	5 x HDMI Type-A Female (Black); 1 x DP Female (Black); 1 x HDB-15 Female (Blue)
Video Output	
Interfaces	2 x HDMI Type-A Female (Black); HDBaseT: 1 x RJ-45 Female (Silver)
Max. Distance	HDMI: Up to 15m; HDBaseT: Up to 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat 6)
Video	
Max. Resolution	HDMI/DP: Up to 1080p @ 60Hz; VGA/Analog: Up to 1920 x 1200 @ 60Hz
Compliance	HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio: 1 x Mini Stereo Jack Female (Green); Balance Audio: 1 x Captive Screw Connector, 5-pole Microphone: 1 x Captive Screw Connector, 3-pole
Output	Optical Audio: 1 x Toslink (Black); Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (White/Red)
Connnectors	
Console Ports	USB 2.0: 2 x USB Type-A Female (White); USB 3.0: 1 x USB Type-A Female (Blue)
Power	1 x 3-prong AC Socket
Control	
RS-232	1 x DB 9 female (Black)
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
Switches	
Power	1 x Pushbutton; 1 x Rocker
Video Input Port Selection	Video In: 5 x Pushbutton; Streaming In: 1 x Pushbutton
Video Output Port Selection	3 x Pushbutton
Selection	Multiview: 1 x Pushbutton; Menu: 1 x Pushbutton; Left: 1 x Pushbutton; Up (Unlock): 1 x Pushbutton Right: 1 x Pushbutton; Go Live: 1 x Pushbutton; Mute: 1 x Pushbutton; Esc: 1 x Pushbutton; Down: 1 x Pushbutton; Enter: 1 x Pushbutton
Phantom Power	1 x Slide Switch
LEDs	
Video	Source 1: HDMI/DP: 2(Green); Source 2: HDMI/VGA: 2(Green)
Video Output	Go Live: 3 (Amber)
EDID Settings	EDID Mode: ATEN Default / Display A
Power	
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Power Consumption	AC110V:28.5W; AC220V:27.3W
RS-232	1 x DB 9 Female (Black)
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
EDID Settings	EDID Mode: ATEN Default / Display A
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	3.70 kg (8.15 lb)
Dimensions (L x W x H)	43.24 x 26.28 x 4.40 cm (17.02 x 10.35 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1 x IR Receiver; 1 x IR Remote Control; 1 x Power Cord; 2 x Terminal Blocks; 4 x Foot Pads

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
DisplayPort Cable*	2L-7D02DP (2 m)	12-8
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0110G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
HDBaseT Cat 6 Cable	2L-2910	12-2
Rack Mounting Kit	2X-043G	13-3
Under Table Mounting Kit	2X-044G	13-3

*Cables with different lengths are available; please refer to 12-7 and 12-8.

VP2120 Seamless Presentation Switch with Quad View Multistreaming

A/V In HDMI | A/V Out HDMI | Stereo Audio | Audio In Microphone | IR Remote Control | EDID | Seamless Switch | Streaming

Front



Rear



Features

Brilliant AV Routing

- One HDMI input and dual HDMI outputs plus 4 bi-directional streaming with matrix display support
- Seamless Switching between streamed-in sources for fast idea exchange
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Audio DSP – mixes Mic input, HDMI input, and the last streaming input for HDMI or audio output
- HDMI audio de-embedding support

Launch a Quick Meeting Anytime

- Launches wireless BYOD collaboration via Web GUI and Mobile App in a swift and agile way
- Offers quick and easy access to log in a quick meeting via multiple methods:
  - Start auto scan and select a room number from the list
  - Scan the QR code shown on the VP2120 OSD
  - Load a pre-saved QR code
  - Input the IP address and Room code shown on the OSD

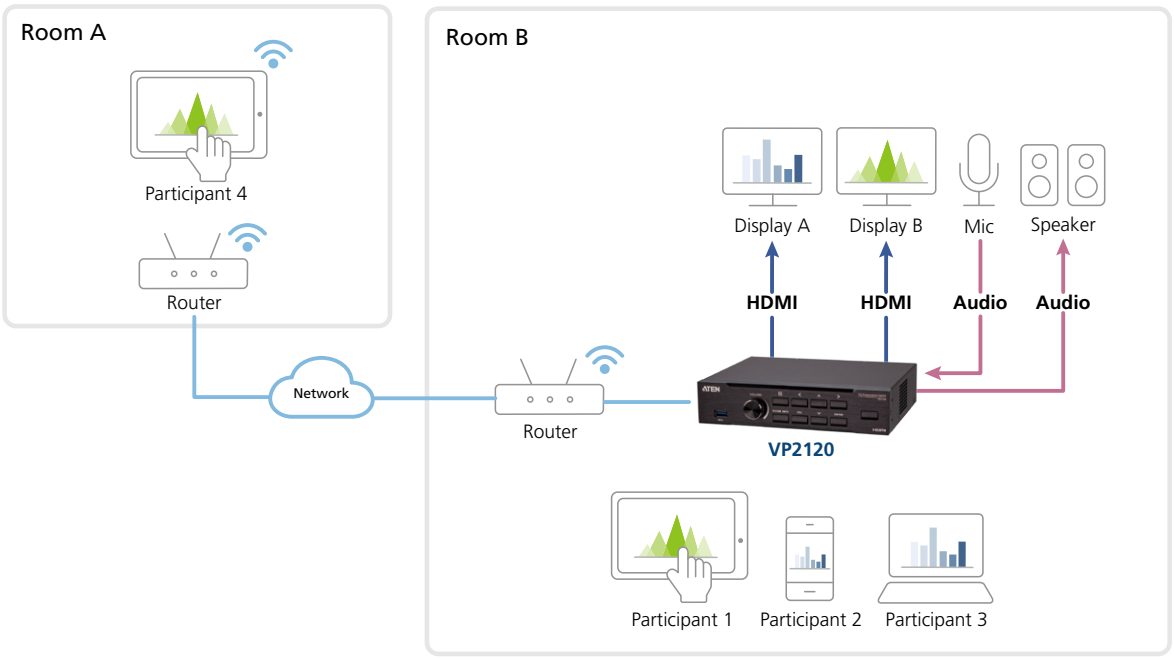
Seamless BYOD Collaboration

- Multiple control method via front-panel pushbuttons, web GUI, OSD, IR remote, and mobile app
- Streaming in – view up to 4 streamed-in contents simultaneously for real-time synchronization
- Streaming out – allows log-in participants to view the Go-live contents on personal devices
- Attendee audio / video permission can be managed by the host
- Multi-view mode – the display layout can either be set up by the host or dynamically adjusted to suit the number of sources available
- Whiteboard allows real-time annotation for idea exchange and synchronization
- Chat room feature enhances text interaction and information sharing
- Video capture records the meeting process for future tracking
- File sharing enables further data sharing and follow-up
- Supports RTMP for streaming video content to large audience via RTMP compatible sites such as Facebook, Youtube, etc.

High-definition Video with Optimum Output

- Superior video quality up to 1920 x 1080 with single streaming input and 854 x 480 with four streaming inputs
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI (1080p); CEC (Consumer Electronics Control); HDCP 1.4 compliant

Setup > VP2120



Specifications

	VP2120
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Max. Distance	HDMI: Up to 15m
Video	
Max. Resolution	HDMI: Up to 1080p @ 60Hz
Compliance	HDMI: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Microphone: 1 x mini stereo Jack Female (Pink)
Output	Stereo Audio: 1 x mini stereo Jack Female (Green)
Connnectors	
Console Ports	USB 3.0: 1 x USB Type A Female (Blue)
Power	1 x DC Jack (Black)
Control	
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
Switches	
Power	1 x Pushbutton (LED: Green)
Selection	Room Info: 1 x Pushbutton Menu: 1 x Pushbutton Left: 1 x Pushbutton Right: 1 x Pushbutton Down: 1 x Pushbutton Up/Unlock: 1 x Pushbutton Volume: 1 x Knob Enter: 1 x Pushbutton ESC: 1 x Pushbutton
EDID Settings	EDID Mode: ATEN Default / Display A
Power Consumption	DC12V:14.46W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.14 kg (2.51 lb)
Dimensions (L x W x H)	20.00 x 16.92 x 4.40 cm (7.87 x 6.66 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Receiver; 1x IR Remote Control; 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0112G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
Rack Mounting Kit	2X-049G	13-3
Under Table Mounting Kit	2X-044G	13-3

*Cables with different lengths are available; please refer to 12-7.

VP1421 4 x 2 True 4K Presentation Matrix Switch with Scaling, DSP, and HDBaseT-Lite

Audio Out Line Out | A/V In HDMI | A/V Out HDMI | Audio Out Toslink | Video In HDB-15 | A/V Out HDBaseT | A/V in HDBaseT | Audio In Microphone | Audio In Stereo | HDCP 2.2

EDID | RS-232 Control | Scaler | Auto Switching | IR Remote Control | Phantom Power | RS-232 Channel | PoH | IR Channel

Front



Rear



Features

Analog/Digital AV Matrix Switching

- Supports multi-format 4 Inputs – 2 HDMI, 1 HDBaseT, and 1 VGA inputs
- 1 HDMI and 1 HDBaseT outputs
- Audio embedding – stereo audio can be embedded into display output or separated to stereo line out and optical audio output
- Audio de-embedding – HDMI/HDBaseT audio can be extracted to stereo line out
- Built-in Audio DSP – supports microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio and embedded into display output
- Automatically reduces program audio when a microphone signal is detected
- Auto switching – automatically detects and switches to a new source as soon as it is connected

High-definition Video with Optimum Output

- Superior video quality – True 4K resolutions up to 4096 x 2160 @ 60Hz (4:4:4) (HDMI) / 4096 x 2160 @ 60Hz (4:2:0) (HDBaseT)
- Supports 4K HDR
- Scaler – supports video upscaling to 4K for display A and downscaling to 1080p for display B
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compliant

Versatile, Streamlined Operation

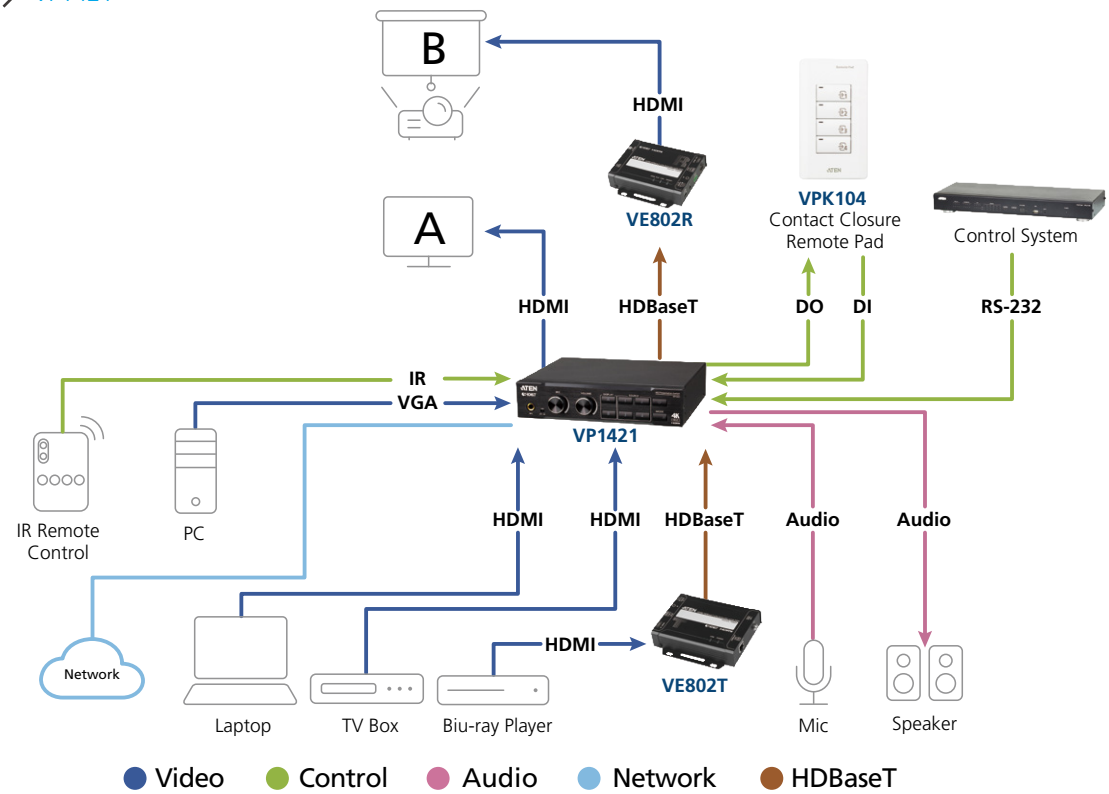
- Multiple control options – flexible control via front-panel pushbuttons, IR remote control, RS-232, and web-based GUI through Ethernet
- View and control via ATEN Video Presentation Control App in a swift and agile way
- Bi-directional RS-232 and IR channel – allows AV device control over HDBaseT connection without additional cabling
- Supports stand-by mode for power saving and fast waking up
- Consumer Electronics Control (CEC) support
- Built-in Contact in and LED out for keypad control using VPK104 Contact Closure Remote Pad

Extended Transmission over One Cable

- Long-distance transmission – transmit digital AV signal, bi-directional RS-232, and IR control signals up to 140m via Cat 6/6a or ATEN 2L-2910 Cat 6 cables
- Power over HDBaseT (PoH) – remote powering over existing communication cable with selectable powering device

Note: This is achieved using both the HDBaseT In and the HDBaseT Out ports on the VP1421, each extending the transmission up to 70m.

Setup > VP1421



Specifications

	VP1421
Video Input	
Interfaces	2 x HDMI Type-A Female (Black); 1 x VGA (HDB-15) Female (Blue) 1 x HDBaseT (RJ-45) Female (Silver) with selectable PoH
Max. Distance	HDMI: 4K @ 60Hz (4:4:4) at 5m; 4K @ 30Hz at 10m; 1080p @ 60Hz at 15m VGA: 1080p @ 60Hz at 15m HDBaseT: 4K @ 30Hz at 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60Hz at 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
Video Output	
Interfaces	1 x HDMI Type-A Female (Black); 1 x HDBaseT (RJ-45) Female (Silver) with selectable PoH
Max. Distance	HDMI: 4K @ 60Hz (4:4:4) at 5m; 4K @ 30Hz at 10m; 1080p @ 60Hz at 15m HDBaseT: 4K @ 30Hz at 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6) 1080p @ 60Hz at 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4); VGA: Up to 1080p @ 60Hz; HDBaseT: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); Up to 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Compliance	HDMI (3D, Deep Color, 4K); 4K HDR; HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio (HDMI/HDBaseT): 1 x mini stereo Jack Female (Green) Stereo Audio (VGA): 1 x mini stereo Jack Female (Green) Microphone: 1 x 6.3mm Jack connector (with selectable phantom power)
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole; Optical Audio: 1 x Toslink (Black)
Control	
RS-232	1 x Captive Screw Connector, 3-pole
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
Contact In	1 x Captive Screw Connector, 5-pole
LED Out	1 x Captive Screw Connector, 5-pole; LED out power: +5 VDC, 0.2 A
IR Channel	HDBaseT In: 1 x Mini Stereo Jack Female (Black); HDBaseT Out: 1 x Mini Stereo Jack Female (Black)
RS-232 Channel	HDBaseT In: 1 x Captive Screw Connector, 3-pole; HDBaseT Out: 1 x Captive Screw Connector, 3-pole
Switches	
Power	1 x Pushbutton (LED: Green / Orange); 1 x Slide Switch (+48V Phantom Power); 1 x Slide Switch (PoH)
Video Input Port Selection	4 x Pushbutton (LED: Green)
Video Output Port Selection	2 x Pushbutton (LED: Orange)
Selection	Mic: 1 x Knob; Volume: 1 x Knob; Mode / Unlock: 1 x Pushbutton
EDID Settings	EDID Mode: ATEN Default / Display A / Remix
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	DC12V:14.93W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.16 kg (2.56 lb)
Dimensions (L x W x H)	20.00 x 17.01 x 4.40 cm (7.87 x 6.7 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1 x IR Receiver; 1 x IR Remote Control; 4 x 3-pole Terminal Blocks; 2 x 5-pole Terminal Blocks; 1 x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0111G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
HDBaseT Cat 6 Cable	2L-2910	12-2
Rack Mounting Kit	2X-049G	13-3
Under Table Mounting Kit	2X-044G	13-3

*Cables with different lengths are available; please refer to 12-7.

VP1420 4 x 2 True 4K Presentation Matrix Switch

Audio In Stereo | A/V In HDMI | A/V Out HDMI | Audio Out Line Out | Video In HDB-15 | HDCP 2.2 | EDID | RS-232 Control | Scaler | Auto Switching | IR Remote Control

Front



Rear



Features

Analog/Digital AV Matrix Switching

- Supports multi-format 4 inputs – 3 HDMI and 1 VGA inputs
- 2 HDMI outputs
- Audio embedding – stereo audio can be embedded into HDMI output or separated to stereo line out
- Audio de-embedding – HDMI audio can be extracted to stereo line out
- Auto switching – automatically detects and switches to a new source as soon as it is connected

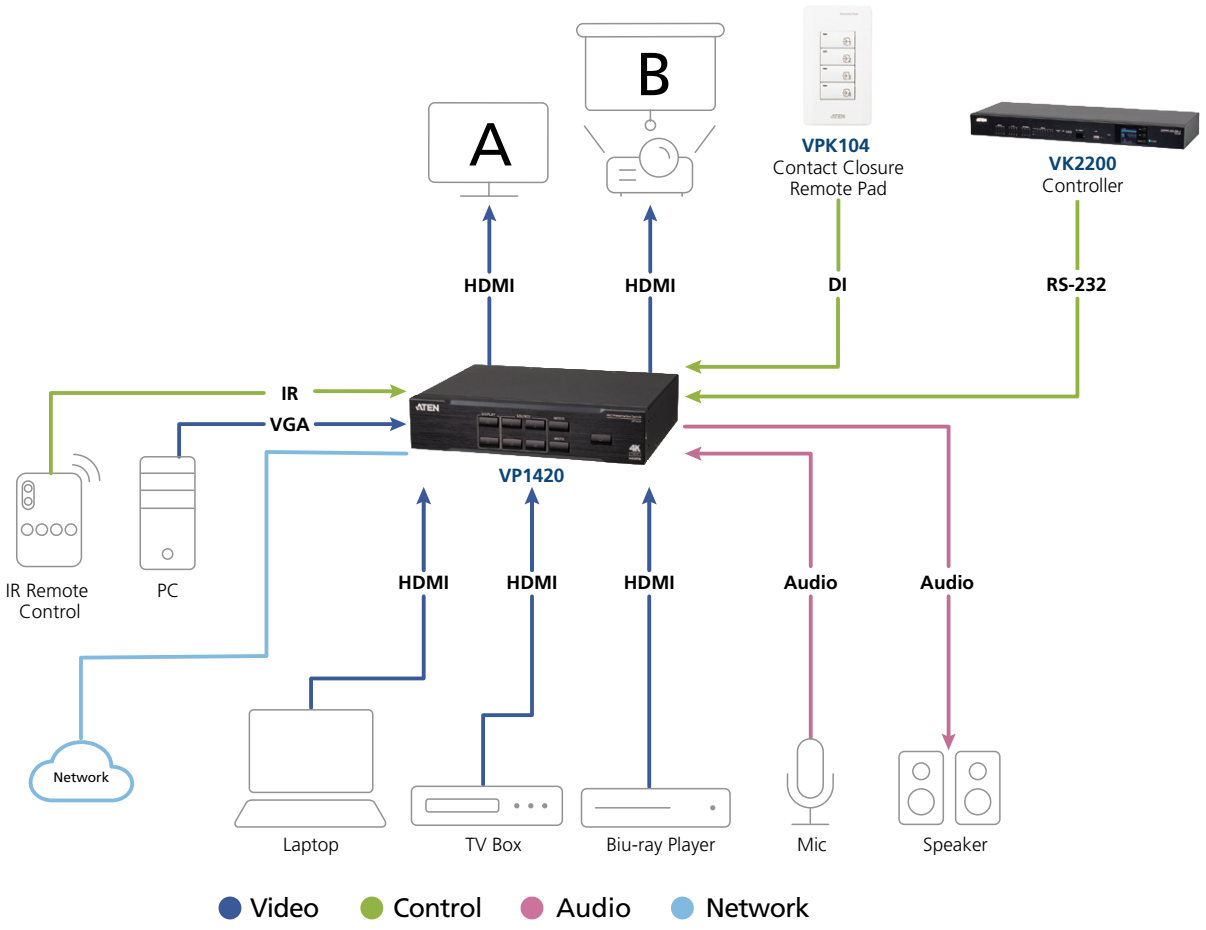
High-definition Video with Optimum Output

- Superior video quality – True 4K resolutions up to 4096 x 2160 @ 60Hz (4:4:4) (HDMI)
- Supports 4K HDR
- Scaler – supports video upscaling to 4K for display A and downscaling to 1080p for display B
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compliant

Versatile, Streamlined Operation

- Multiple control options – flexible control via front-panel pushbuttons, IR remote control, RS-232, and web-based GUI through Ethernet
- View and control via ATEN Video Presentation Control App in a swift and agile way
- Supports stand-by mode for power saving and fast waking up
- Consumer Electronics Control (CEC) support
- Built-in Contact in and LED out for keypad control using VPK104 Contact Closure Remote Pad

Setup > VP1420



Specifications

	VP1420
Video Input	
Interfaces	3 x HDMI Type A Female (Black) 1 x VGA (HDB-15) Female (Blue)
Max. Distance	HDMI: 4K @ 60Hz (4:4:4) at 5m; 4K @ 30Hz at 10m; 1080p @ 60Hz at 15m VGA: 1080p @ 60Hz at 15m
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Max. Distance	HDMI: 4K @ 60Hz (4:4:4) at 5m; 4K @ 30Hz at 10m; 1080p @ 60Hz at 15m
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) VGA: Up to 1080p @ 60Hz
Compliance	HDMI (3D, Deep Color, 4K); 4K HDR HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio (VGA): 1 x mini stereo Jack Female (Green) Stereo Audio (HDMI): 1 x mini stereo Jack Female (Green)
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole
Control	
RS-232	1 x Captive Screw Connector, 3-pole
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
Contact In	1 x Captive Screw Connector, 5-pole
LED Out	1 x Captive Screw Connector, 5-pole LED out power: +5 VDC, 0.2 A
Switches	
Power	1 x Pushbutton (LED: Green / Orange)
Video Input Port Selection	4 x Pushbutton (LED: Green)
Video Output Port Selection	2 x Pushbutton (LED: Orange)
Selection	Mute: 1 x Pushbutton Mode / Unlock: 1 x Pushbutton
EDID Settings	EDID Mode: ATEN Default / Display A / Remix
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	DC5V:7.21W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.09 kg (2.4 lb)
Dimensions (L x W x H)	20.00 x 16.05 x 4.40 cm (7.87 x 6.32 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1 x IR Receiver; 1 x IR Remote Control; 4 x 3-pole Terminal Blocks; 2 x 5-pole Terminal Blocks; 1 x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0111G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
Rack Mounting Kit	2X-049G	13-3
Under Table Mounting Kit	2X-044G	13-3

*Cables with different lengths are available; please refer to 12-7.

VP1920 9 x 2 4K Presentation Matrix Switch

A/V In HDMI | A/V Out HDMI | A/V In DisplayPort | Video In HDB-15 | Audio In RCA | Audio In Stereo | Audio Out Toslink | RS-232 Control | IR Remote Control | EDID

Audio Out Coaxial | Video In Component | Video In Composite | Audio Out RCA | PIP | Source Preview | Auto Switching

Front



Rear



Features

Multi-format AV Switching with Simplicity

- Supports multi-format 9 Inputs and 2 HDMI outputs:
  - 3 combo inputs (HDMI/VGA, HDMI/DisplayPort, HDMI/AV/YPbPr)
  - 3 HDMI inputs
  - 2 HDMI outputs
- VGA port supports universal analog input formats (RGBHV/RGBs/YCbCr/YPbPr)
- Embed/De-embed Audio – HDMI/DisplayPort audio signals can be extracted to digital/analog audio signals; stereo/composite/component audio can be embedded to digital audio signals

High-definition Video with Optimum Output

- Superior video quality up to 4096 x 2160 @ 60Hz (4:2:0) / 4096 x 2160 @ 30Hz (4:4:4) (HDMI/DP)
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI (3D, Deep Color, 4K); HDCP 1.4 compliant

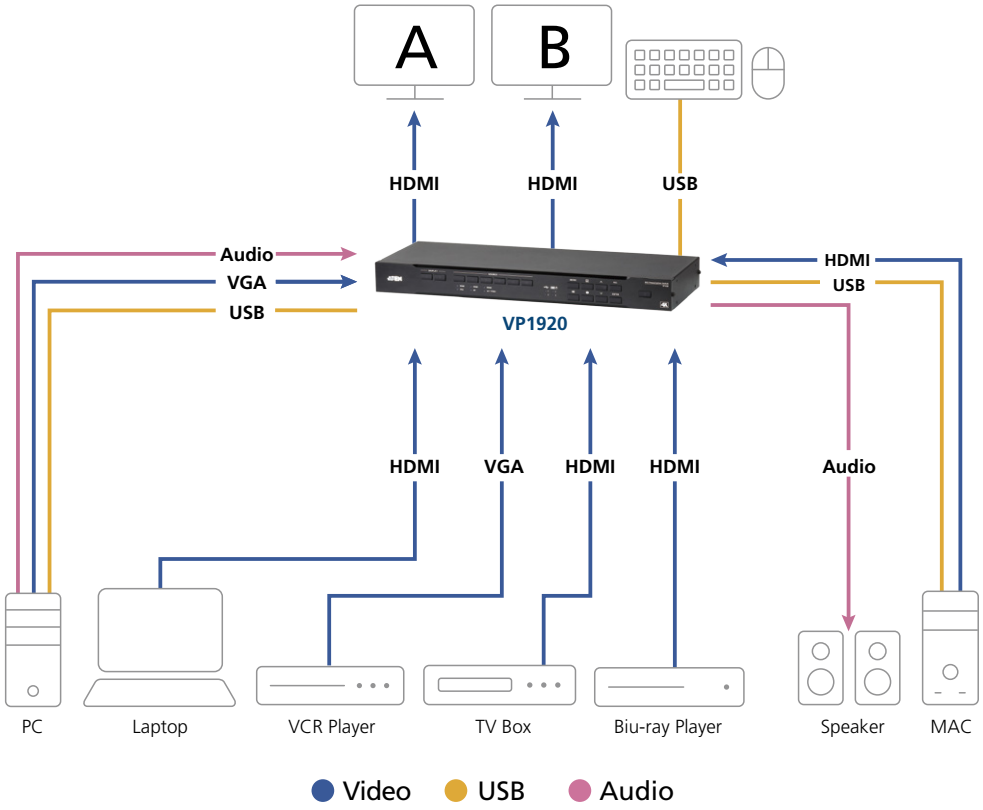
Versatile, Streamlined Operation

- Multiple control methods via front-panel pushbuttons, RS-232, OSD, and IR remote
- Source preview – quickly identify and switch to the target content
- Selectable display modes (Matrix, Mirror, or PiP) for different presentation demands
- Auto switching – automatically detects and switches to a new source as soon as it is connected for time-saving and convenience
- Supports stand-by mode for power saving and fast waking up

Extended Flexibility for USB Peripherals

- USB ports enable keyboard/mouse or touch panel control over the connected computers
- Control focus for keyboard/mouse and USB peripherals can be individually switched to a designated computer source

Setup › VP1920



Specifications

	VP1920
Video Input	
Interfaces	6 x HDMI Type A Female (Black); 1 x DP Female (Black); 1 x HDB-15 Female (Blue) 1 x Component (3 x RCA Female, Blue/Green/Red); 1 x Composite (1 x RCA Female, Yellow)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Max. Distance	Up to 15 m
Video	
Max. Resolution	HDMI/DP: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4); VGA/Analog: Up to 1920 x 1200 @ 60Hz
Compliance	HDMI (3D, Deep Color, 4K); HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio: 1 x Mini Stereo Jack Female (Green) Composite/Component Audio: 2 x RCA Female (Red/White)
Output	Optical Audio: 1 x Toslink (Black) Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (White / Red)
Connectors	
Computers	2 x USB Type B Female (White)
Console Ports	Keyboard/Mouse: 2 x USB Type A Female (White) Device: 2 x USB Type A Female (White)
Control	
RS-232	1 x DB 9 Female (Black)
IR	1 x Mini Stereo Jack Female (Black)
Switches	
Power	1 x Pushbutton; 1 x Rocker
Video Input Port Selection	6 x Pushbutton
Video Output Port Selection	2 x Pushbutton
Selection	Mode: 1 x Pushbutton; Menu: 1 x Pushbutton; Up (Unlock): 1 x Pushbutton; Esc: 1 x Pushbutton Audio: 1 x Pushbutton; Preview: 1 x Pushbutton; Down: 1 x Pushbutton; Enter: 1 x Pushbutton
LEDs	
Video	Source 1: HDMI/VGA: 2(Green); Source 2: HDMI/DP: 2(Green); Source 3: HDMI/AV/YPbPr: 2(Green)
USB Link	Keyboard/Mouse: 2 (Amber); Device: 2 (Amber)
EDID Settings	EDID Mode: Default / Port 1 / Remix
Power	
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Power Consumption	AC110V:7.3W; AC220V:7.3W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.36 kg (5.20 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	1 pc
Included Accessories	1x Power Cord; 1x IR Receiver; 1x IR Remote Control

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
DisplayPort Cable*	2L-7D02DP (2 m)	12-8
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0109G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2

*Cables with different lengths are available; please refer to 12-7 and 12-8.

VPK312 12-Key Network Remote Pad

Profession Template



Participant Template



Moderator Template



Rear View

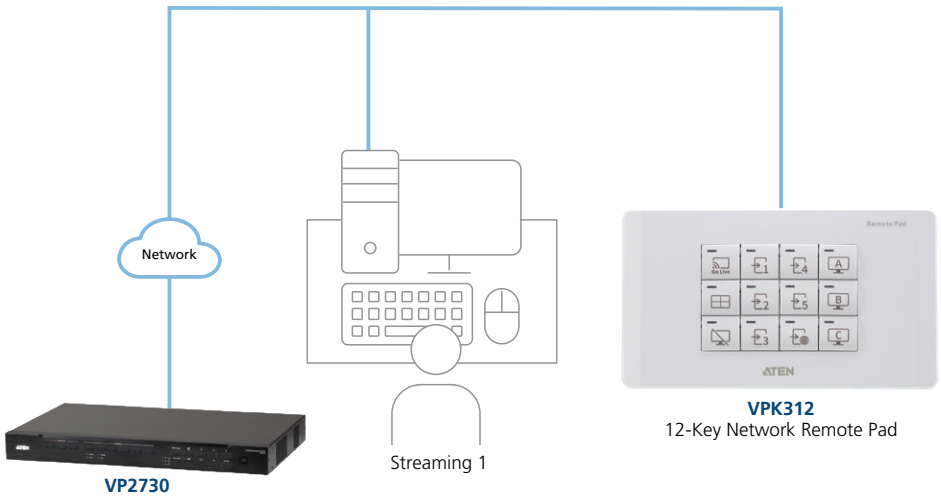


Features

- 12-key Network Remote Pad for ATEN Presentation Switches
- Easy pairing with a Presentation Switch via the host Presentation Switch's web console
- Effortless configuration via the intuitive web GUI
- Fully customizable for the functions and layout of the keys
- Dual-color button LEDs for clear indication and visibility
- Power redundancy supported when both DC power and Power over Ethernet (PoE) are supplied
- Convenient reset of system and network settings using the built-in reset button
- Firmware upgradable
- Engraved buttons for intuitive port indication and operation

Note: VPK312K1 provides 29 engraved buttons to support multiple function control with VP2730.
Template will vary to support different VP models.

Setup > VPK312



Specifications

	VPK312
Interfaces	
Keypad Layout	12 Engraved Buttons
Ethernet	• 1 x RJ-45 Female, 10/100 BaseT • Supported Protocol: DHCP, HTTP/ HTTPS • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Reset Button	1 x Semi-recessed Pushbutton
Power Consumption	DC5V:0.8W; PoE:1W
Connectors	
Power	2-pole Terminal Block Connector
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
Dimensions (L x W x H)	8.32 x 14.76 x 4.80 cm (3.28 x 5.81 x 1.89 in.)
Faceplate Dimensions (L x W x H)	8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1 x Faceplate; 1 x Pack of Button Caps; 1 x Power Adapter; 1 x 2-pole Terminal Block

VPK104 4-Key Contact Closure Remote Pad

Front w / Faceplate



Rear



Features

- 4-button contact closure remote control pad for ATEN VP1420/ VP1421 Presentation Matrix Switches
- Easy installation via contact closure; no extra power source required
- LED lights for port selection status indication
- Engraved buttons for intuitive port indication and operation

Specifications

	VPK104
Interfaces	
Keypad Layout	4 buttons
Control	
Contact Out	4 x Captive Screw Connector, 2 pole
LED In	4 x Captive Screw Connector, 2 pole
Environmental	
Operating Temperature	0 – 50°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)	11.63 x 7.06 x 4.78 cm (4.58 x 2.78 x 1.88 in.)
Faceplate Dimension (L x W x H)	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	4 x 4-pole Terminal Blocks

ATEN Video Presentation Control App

Collaborate and control meeting presentations with your mobile device

The ATEN Video Presentation Control App is a free app that supports iOS and Android operating systems.
This mobile app provides direct and easy access to collaborate and control meeting presentations directly from your mobile device.

ATEN Video Presentation Control App

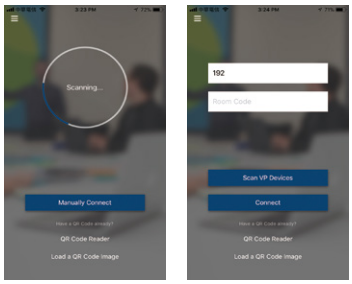
Android iOS

Download on the App Store

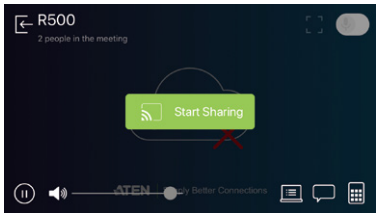
GET IT ON Google Play

Features

- Multiple Login Options
  Auto scan the local network for devices or use the QR code/room code to log in.



- Bi-directional Wireless Streaming
  Stream presentation content from your mobile device with ease or 'Go Live' to share content to participants located elsewhere.

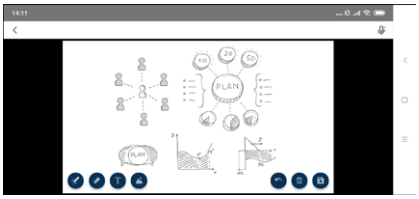


- Quad View with Auto Layout
  Shows up to 4 streamed-in sources and dynamically adjusts the screen layout per the number of sources.



Advanced Collaboration Features

- Whiteboard
  Take notes or make annotations on any file in real-time.



- Chat Room
  Chat Room allows participants to chat with each other or send files instantly.



- Group Broadcasting

  Tap  and speak to remote participants using your own device.

- Intuitive Control
  Set layouts, switch sources, control audio, and more with a few simple taps.

Note: The supported features differ by models.
Current models supported: VP1420, VP1421, VP2120, VP2730.

Modular Matrix Solutions

- VM3250 / VM3200 / VM1600A - Modular Matrix Switch
- VM7584 / VM8584 - 10G Optical Input / Output Board
- VM7514 / VM8514 - HDBaseT Input / Output Board
- VM7904 - 4K DisplayPort Input Board
- VM7824 / VM8824 - True 4K HDMI Input / Output Board
- VM7814 / VM8814 - 4K HDMI Input / Output Board
- VM7804 / VM8804 - HDMI Input / Output Board
- VM7604 / VM8604 - DVI Input / Output Board
- VM7404 - 3G-SDI Input Board
- VM7104 - VGA Input Board



ATEN Modular Matrix Solutions offer real-time control and advanced access to manage 16/32 video sources and 16/32 displays simultaneously, through modular I/O boards in a single chassis. They provide various video interface and transmission options – including digital and analog video formats such as Optical, HDBaseT, DisplayPort, HDMI, SDI, DVI, and VGA – with support for up to True 4K resolutions.

Empowered by ATEN Seamless Switch™ technology, these models incorporate a speed-progressive video switching function and a unique scaler that integrates seamlessly with video wall systems. ATEN Modular Matrix Solutions are easily expandable and ideal for large-scale AV applications such as broadcasting stations, traffic and transportation-related control rooms, emergency service centers, and any application that requires customizable, high-speed, and complex AV signal routing.

Specifications at a Glance

Combination	Modular Matrix Switch	VM3250 / VM3200 / VM1600A								
	Input Board	VM7584K1/ VM7584K2	VM7514	VM7904	VM7824	VM7814	VM7804	VM7604	VM7104	VM7404
	Output Board	VM8584K1/ VM8584K2	VM8514		VM8824	VM8814	VM8804	VM8604		
Interface		Optical	HDBaseT (RJ-45)	DisplayPort	HDMI	HDMI	HDMI	DVI	VGA	3G-SDI (BNC)
Max. Video Resolution		4K@60Hz (4:2:0)[b]	4K@60Hz (4:2:0)[b]	4K@60Hz (4:2:0)[b]	4K@60Hz (4:4:4)[a]	4K@60Hz (4:2:0)[b]	1920 x 1080	1920 x 1200	1920 x 1200	1920 x 1080
Max. Distance	Input	VM7584K1: 300m VM7584K2: 10km	100m	5m	5m	5m	5m	5m	1.8m	SD: 300 m HD:150 m 3G:100 m
	Output	VM8584K1: 300m VM8584K2: 10km	100m	N/A	5m	15m	15m	5m	N/A	N/A
Audio		•	N/A	•	•[c]	•[c]	•[c]	•[c]	•[c]	•[c]
Scaler		VM8584 + VE883R[d]	VM8514 + VE805R / VE816R[d]	N/A	VM8824	VM8814	VM8804	VM8604	N/A	N/A
Video Wall		VM8584 + VE883R[d]	VM8514 + VE805R / VE816R[d]	N/A	VM8824	VM8814	VM8804	VM8604	N/A	N/A
Seamless Switching		VM8584 + VE883R[d]	VM8514 + VE805R / VE816R[d]	N/A	VM8824	VM8814	VM8804	VM8604	N/A	N/A
FrameSync		VM8584 + VE883R[d]	VM8514 + VE816R[d]	N/A	VM8824	VM8814	N/A	N/A	N/A	N/A
Cable Quality Tester		N/A	VM8514 + VE816R[d]	N/A	•	•	N/A	N/A	N/A	N/A
RS-232 Channel		•	•	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IR Channel		•	•	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note : a. True 4K resolutions are only supported when the VM7824 and VM8824 are used with the VM3250.
b. 4K resolutions are only available when the Scaler is disabled. When the Scaler function is implemented, the highest resolution available is 1080p. The Scaler function is enabled by default.
c. HDMI audio signal can be extracted to stereo audio output; stereo audio can be embedded into the HDMI audio output.
d. Certain functions depend on video extender model used.



- **Bandwidth for True 4K**
  The latest generation of ATEN's Modular Matrix Switch is designed to handle extreme bandwidth requirements of up to True 4K video signals, providing support for the latest generation of source devices and displays as well as future-proofing your installation.

- **Modular Convenience, Uninterrupted Operation**
  The removable front panel, modular interior PCBs, hot swappable I/O board, power, and fan modules make maintenance easier than ever. The redundant power design prevents single points of failure from shutting down the entire system and ensures 24/7 operation.

- **Future-proof Expandability**
  Minimal cost and hassle-free expandability with a selection of modular I/O boards, including Fiber Optic, HDBaseT, DisplayPort, HDMI, DVI, 3G-SDI, and VGA boards that enable easy future expansion.

- **Seamless Switch™**
  ATEN's unique Seamless Switch™ technology features close-to-zero second video switching from any input to any output at up to True 4K without any black screens.

- **Tear-free Video Walls**
  ATEN's FrameSync Technology prevents screen tearing by synchronizing the scaler frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls.

- **Scaling for Optimized Output**
  A unique scaler utilizes ATEN FPGA technology to unify various video input signals and render optimized output resolutions on displays with uncompromised precision.

- **Award Winning Web GUI**
  The intuitive web interface features real-time preview of video sources via streaming and calendar-based scheduling to facilitate video wall set up and reduced operation costs. It also features Display Zones for separate management of video signal distribution to different locations to ensure uninterrupted and streamlined operations.

- **Multiple Control Methods**
  Provides multiple built-in control interfaces including RS-232, RS-485, RS-422, Ethernet, pushbuttons, and our award-winning Web GUI, as well as the free ATEN Video Matrix Control App, making control easier than ever.

- **Audio Embedding and De-embedding**
  ATEN Modular Matrix Solutions are designed with the capability to separate audio from its corresponding video sources and route separately to desired audio output channels.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.

VM3250 32 x 32 Modular Matrix Switch Gen. 2

reddot award 2015 winner interface design

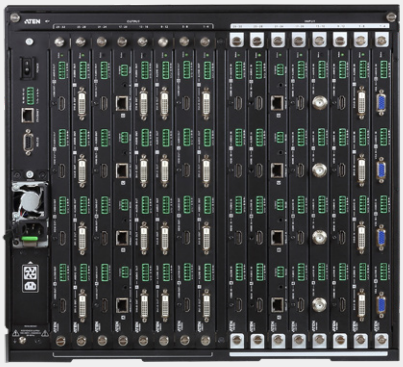
TAIWAN EXCELLENCE 2022

RS-232/485/422 Control | EDID | FPGA Design | Streaming | 22.5 Gbps

Front



Rear



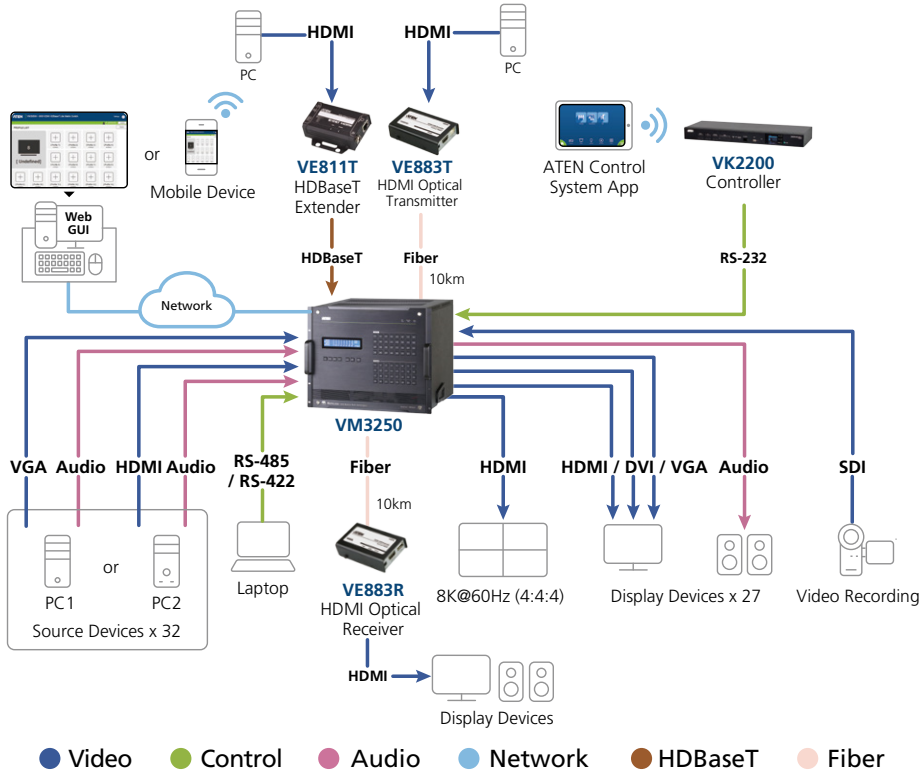
*The I/O boards need to be purchased separately.

Features

- 32 x 32 I/O connections via 8 x 8 I/O slots for modular matrix boards
- Multiple Control Methods – system management via front-panel pushbuttons, serial control over RS-232/RS-485/RS-422, and web GUI/Telnet over Ethernet connections
- View and control via ATEN Video Matrix Control App in a swift and agile way
- True 4K Resolutions – Supports uncompressed video resolutions up to 4096 x 2160 / 3840 x 2160@60Hz (4:4:4)
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions*
- Seamless Switch™ – features close-to-zero second switching for continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- Live Streaming – supports single source live streaming via web GUI for convenient evaluation of display output
- Content and Layout Preview – displays thumbnails of source media in web GUI, simplifying profile configuration
- Calendar-based Scheduling – allows profile playing based on the pre-set schedule synchronized with RTC
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded*
- Optional Redundant Power Supply – ensures higher reliability for mission-critical applications
- Support long-distance transmission via optical or HDBaseT I/O boards and extenders
- Hot-swappable I/O boards, fan module, and power supplies for easy maintenance
- ESD protection for HDMI
- Rack-mountable (9U design)

Note: 1. The availability of these features depends on which I/O board is inserted.
2. When Seamless Switch™ is enabled, 3D, Deep Color, or interlace (i.e.,1080i) formats will not be supported. To use these formats, make \ sure to disable Seamless Switch™

Setup > VM3250 + VM7584 / VM8584 + VM7824 / VM8824 + VM7514 / VM8514 + VM7904 + VM7604 / VM8604 + VM7104 + VM7404



Specifications

	VM3250
Board Input	8 x Slot
Board Output	8 x Slot
Video Input	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	22.5 Gbps
Audio	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Connectors	
Power	1 x 3-Prong AC Socket
Power	
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 10 A
Power Consumption	AC110V:800W AC220V:800W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	18.20 kg (40.09 lb)
Dimensions (L x W x H)	48.20 x 47.19 x 39.90 cm (18.98 x 18.58 x 15.71 in.)
Rack Height (U Spaces)	9U
Carton Lot	1 pc
Included Accessories	1x Power Module; 1x Terminal Block Connector; 1x Power Cord

Required I/O Board

Description	Part No. / Spec.	Page No.
4-Port 10G Optical Input / Output Board	VM7584 / VM8584	5-9
HDBaseT Input / Output Board	VM7514 / VM8514	5-11
4K DisplayPort Input Board	VM7904	5-13
True 4K HDMI Input / Output Board	VM7824 / VM8824	5-14
4K HDMI Input / Output Board	VM7814 / VM8814	5-15
HDMI Input / Output Board	VM7804 / VM8804	5-16
DVI Input / Output Board	VM7604 / VM8604	5-17
3G-SDI Input Board	VM7404	5-18
VGA Input Board	VM7104	5-19

Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-034G (Short)	41 – 72 cm
2X-035G (Long)	68 – 108 cm

Optional Accessories

Video Matrix Power Module	VM-PWR800
Input voltage	100 – 240 VAC
Power Capacity	Max. Load 800W
Operating Temperature	0 – 40 °C

Video Matrix Fan Module	VM-FAN556
Airflow	55.2 cfm
Operating Voltage	10.2 – 12 VDC
Operating Temperature	-10 – 60 °C

VM3200 32 x 32 Modular Matrix Switch

reddot award 2015 winner interface design

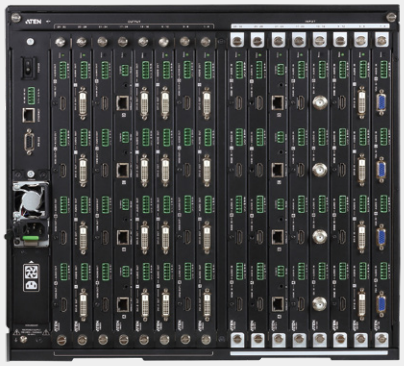
BC AWARD BEST CHOICE 2017

RS-232/485/422 Control | EDID | FPGA Design | Streaming

Front



Rear



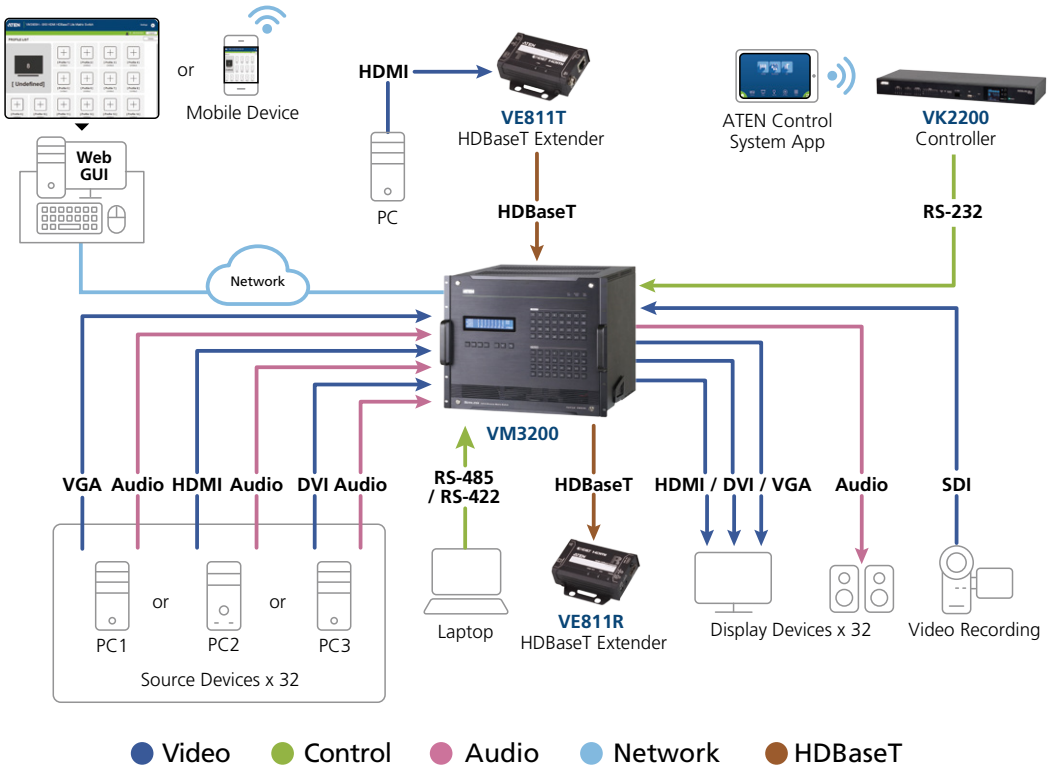
*The I/O boards need to be purchased separately.

Features

- Connects any of 32 video sources to any of 32 displays in combination with ATEN Modular Matrix Solutions
- 4K resolutions – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30Hz (4:4:4) and 60Hz (4:2:0)
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- Live Streaming – supports single source live streaming via web GUI for convenient evaluation of display output
- Content and Layout Preview – displays thumbnails of source media in web GUI, simplifying profile configuration
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded (HDMI I/O boards)
- Calendar-based Scheduling – allows profile playing based on the pre-set schedule synchronized with RTC
- Long-Reach mode up to 1080p @ 150m – enables extended AV transmission using the HDBaseT™ Input/Output board with ATEN HDBaseT™ Class A Video Extenders
- Hot-swappable design for I/O boards, fan module, and power supplies for easy maintenance and higher reliability
- Rack-mountable (9U design)

Note: *The availability of these features depends on which I/O board is inserted.

Setup > VM3200 + VM7814 / VM8814 + VM7514 / VM8514 VM7604 / VM8604 + VM7104 + VM7404



Specifications

	VM3200
Board Input	8 x Slots
Board Output	8 x Slots
Video	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8 Gbps per Lane)
Audio	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
Control	
RS-232	**Connector:** 1 x DB-9 Female (Black) **Serial Control Pin Configurations:** Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd **Baud Rate and Protocol:** Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100 - 240 VAC; 50 - 60Hz; 10 A
Consumption	AC110V:800W:239BTU AC220V:800W:236BTU
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	18.20 kg (40.09 lb)
Dimensions (L x W x H)	48.20 x 47.19 x 39.90 cm (18.98 x 18.58 x 15.71 in.)
Rack Height (U Spaces)	9U
Carton Lot	1 pc
Included Accessories	1x Power Module; 1x Power Cord; 1x Terminal Block connector

Required I/O Board

Description	Part No. / Spec.	Page No.
4-Port 10G Optical Input / Output Board	VM7584 / VM8584	5-9
HDBaseT Input / Output Board	VM7514 / VM8514	5-11
4K DisplayPort Input Board	VM7904	5-13
4K HDMI Input / Output Board	VM7814 / VM8814	5-15
HDMI Input / Output Board	VM7804 / VM8804	5-16
DVI Input / Output Board	VM7604 / VM8604	5-17
3G-SDI Input Board	VM7404	5-18
VGA Input Board	VM7104	5-19

Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-034G (Short)	41 – 72 cm
2X-035G (Long)	68 – 108 cm

Optional Accessories

Video Matrix Power Module	VM-PWR800
Input voltage	100 – 240 VAC
Power Capacity	Max. Load 800W
Operating Temperature	0 – 40 °C

Video Matrix Fan Module	VM-FAN556
Airflow	55.2 cfm
Operating Voltage	10.2 – 12 VDC
Operating Temperature	-10 – 60 °C

VM1600A 16 x 16 Modular Matrix Switch

reddot award 2015
winner interface design

RS-232/485/422 Control | EDID | FPGA Design | Streaming

Front



Rear



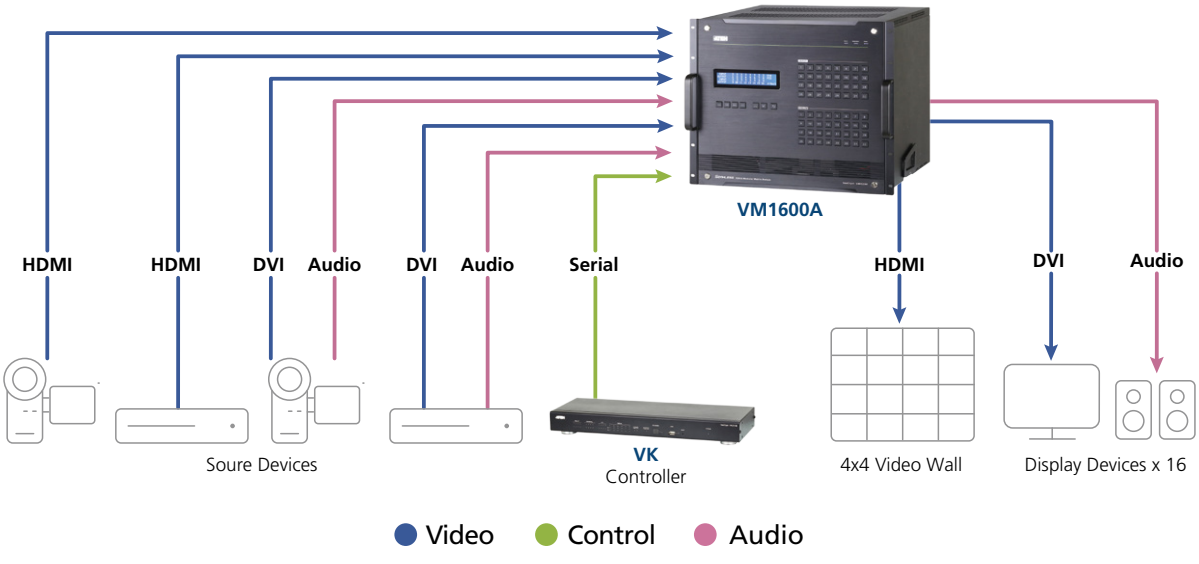
*The I/O boards need to be purchased separately.

Features

- Connects any of 16 video sources to any of 16 displays in combination with ATEN Modular Matrix I/O Boards
- Multiple means for system configuration including front-panel pushbuttons, RS-232/422/485 control, and Ethernet connections for web GUI or Telnet
- View and control via ATEN Video Matrix Control App in a swift and agile way
- 4K resolutions – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30Hz (4:4:4) and 60Hz (4:2:0)*
- Scaler – features a (4K) video scaling function to convert input resolutions to the display's native resolutions*
- Seamless Switch™ – features close-to-zero second switching for continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- Calendar-based Scheduling – allows profile playing based on the pre-set schedule synchronized with RTC
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded*
- Long-Reach mode up to 1080p @ 150m – enables extended AV transmission using the HDBaseT™ Input/Output board with ATEN HDBaseT™ Class A Video Extenders
- Hot-swappable design for I/O boards, fan module, and power supplies for easy maintenance and higher reliability
- Rack-mountable (6U design)

Note: *The availability of these features depends on which I/O board is inserted.

Setup > VM1600A + VM7804 / VM8804 + VM7604 / VM8604



Specifications

	VM1600A
Board Input	4 x Slots
Board Output	4 x Slots
Video	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8 Gbps per lane)
Audio	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
Control	
RS-232	**Connector:** 1 x DB-9 Female (Black) **Serial Control Pin Configurations:** Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd **Baud Rate and Protocol:** Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100 - 240 VAC; 50 - 60Hz; 3/6 A
Consumption	AC110V:460W:166BTU AC220V:460W:156BTU
Fan	Airflow: 55.2 cfm Operating Voltage: 10.2 - 12VDC Operating Temp: -10 - 60°C
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	15.11 kg (33.28 lb)
Dimensions (L x W x H)	48.20 x 46.66 x 26.59 cm (18.98 x 18.37 x 10.47 in.)
Rack Height (U Spaces)	6U
Carton Lot	1 pc
Included Accessories	1x Fan Module; 1x Power Module; 1x Power Cord; 1x Terminal Block connector

Required I/O Board

Description	Part No. / Spec.	Page No.
4-Port 10G Optical Input / Output Board	VM7584 / VM8584	5-9
HDBaseT Input / Output Board	VM7514 / VM8514	5-11
4K DisplayPort Input Board	VM7904	5-13
4K HDMI Input / Output Board	VM7814 / VM8814	5-15
HDMI Input / Output Board	VM7804 / VM8804	5-16
DVI Input / Output Board	VM7604 / VM8604	5-17
3G-SDI Input Board	VM7404	5-18
VGA Input Board	VM7104	5-19

Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-026G (Short)	42 – 70 cm
2X-027G (Long)	68 – 105 cm

Optional Accessories

VM1600A Power Module	VM-PWR550
Input voltage	100 – 240 VAC
Power Capacity	Max. Load 550W
Operating Temperature	0 – 40 °C

VM1600A Fan Module	VM-FAN554
Airflow	55.2 cfm
Operating Voltage	10.2 – 12 VDC
Operating Temperature	-10 – 60 °C

VM7584 4-Port 10G Optical Input Board
VM8584 4-Port 10G Optical Output Board

VM7584K1 300 m | VM7584K2 10 km | VM8584K1 300 m | VM8584K2 10 km | IR Channel (VM8584+VE883) | 4K Scaler (VM8584+VE883) | Seamless Switch (VM8584+VE883) | Video Wall (VM8584+VE883) | FrameSync (VM8584+VE883) | RS-232 Channel (VM8584+VE883) | HDCP 2.2 | EDID | FIBER

VM7584



VM8584



Features

- Compatible with the VM3250 / VM3200 / VM1600A; mix and match with modular I/O boards of any type for optimum flexibility
- Extends audio/video, IR, and RS-232 control signals over long distances via duplex fiber optic cables
- Superior video quality over long-distance transmission – up to 4096 x 2160 @ 60Hz (4:2:0), 300m with VM7584K1/VM8584K1 and multimode cables or 10km with VM7584K2/VM8584K2 and over single-mode cables
- Scaler – features a 4K video scaling function to convert input resolutions to the optimum display resolutions (VM8584)*
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions (VM8584)*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI (VM8584)*
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) support
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners*
- Bi-directional IR channel – IR transmission is processed one direction at a time, ranging from 30 kHz to 60 kHz*
- EDID Expert – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8584)*
- Hot-swappable fiber optic module and I/O boards for easy integration and maintenance

Note: *VM7584/VM8584 is designed to work with VE883 video extender. The features are only available when used with the VE883.

The VM7584/VM8584 extends uncompressed 4K signal up to 300m (using VM7584K1/VM8584K1) or 10 km (using VM7584K2/VM8584K2) over duplex fiber optic cables. The optical fiber simplifies cabling as well as guarantees an interference-free long-haul transmission of audio, video, and control signal over one single set of duplex cables.

Long-distance Transmission
Delivers video, audio, and data for great distances, without or with minimal use of extenders

Interference Immunity
Resists electromagnetic and radio frequency interference during high-quality AV transmissions

Low Attenuation
Provides high-bandwidth transmission with exceptionally low loss

Specifications

	VM7584	VM8584
Fiber Optics		
Data Rate	10.3 Gbps	
Wavelength	VM7584K1: Multimode (MM), OM3, LC Duplex Type VM7584K2: Singlemode (SM), LC Duplex Type	VM8584K1: Multimode (MM), OM3, LC Duplex Type VM8584K2: Singlemode (SM), LC Duplex Type
Fiber Type	VM7584K1: Multimode(MM), OM3, LC Duplex Type; VM7584K2: Singlemode(SM), LC Duplex Type	VM8584K1: Multimode(MM), OM3, LC Duplex Type; VM8584K2: Singlemode(SM), LC Duplex Type
Video Input		
Interfaces	VM7584: 4 x bi-directional SFP+ (LC)	
Video Output		
Interfaces	VM8584: 4 x bi-directional SFP+ (LC)	
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 compatible Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	VM7584K1: up to 300m (MM, OM3, Black)	VM8584K1: up to 300m (MM, OM3, Black)
	VM7584K2: up to 10km (SM, Blue)	VM8584K2: up to 10km (SM, Blue)
Control Channel		
RS-232 Channel	4 x Captive Screw Connectors, 3 pole	
IR Channel	4 x Mini Stereo Jack Female (Black)	
Power Consumption	10.54W:49BTU	22.96W:108BTU
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-Condensing	
Physical Properties		
Housing	Metal	
Weight	0.57 kg (1.26 lb)	0.65 kg (1.43 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)	
Carton Lot	2 pcs	
Included Accessories	1x IR Receiver; 1x IR Emitter; 4 x SFP+ Modules; 4 x 3-Pole Terminal Blocks	

Optional Accessories

Description	Part No. / Spec.	Page No.
4K HDMI Optical Extender	VE883	9-50
IR Receiver Cable (30-56 KHz)	2XRT-0003G-1	13-2
IR Emitter (30-56 KHz)	2XRT-0004G	13-2

VM7514 4-Port HDBaseT Input Board
VM8514 4-Port HDBaseT Output Board

A/V In HDBaseT (VM7514) | A/V Out HDBaseT (VM8514) | RS-232 Channel | Seamless Switch | Video Wall | IR Channel | HDCP 2.2

(Depends on which receiver is used)

VM7514



VM8514



Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- HDBaseT Connectivity – extends 4 HDBaseT connections up to 100m via single Cat 5e/6 cable
- HDBaseT Anti-jamming – resists signal interference during video transmission using HDBaseT technology
- Seamless Switch™ – features close-to-zero second switching, continuous video streams, real-time switching and stable signal transmissions (VM8514)*
- Video Wall – features configurable video wall profiles for custom layouts via point-n-click web GUI (VM8514)*
- Bi-directional RS-232 Channel – transmits signals over Cat 6/6a cable to control a display or other devices
- Bi-directional IR Channel – IR transmission is processed one direction at a time

Note: *For the VM8514, the Seamless Switch™ and Video Wall functions are only available when used with the VE805R and VE816R

VM7514 Compatible Table

Compatible Transmitter	Max. Distance	IR Channel	RS-232 Channel	4K
VE2812AT	100m[a]	•	•	•
VE1812T	100m[a]	•	•	•
VE801T	70m[b]	N/A	N/A	•
VE802T	70m[b]	•	•	•
VE811T	100m[a]	N/A	N/A	•
VE812T	100m[a]	N/A	N/A	•
VE814AT	100m[a]	•	•	•
VE601T (DVI)	70m[b]	N/A	N/A	N/A
VE901T (DisplayPort)	70m[c]	N/A	N/A	•

VM8514 Compatible Table

Compatible Receiver	Max. Distance	IR Channel	RS-232 Channel	4K	Seamless Switch™	Video Wall	FrameSync
VE1812R	100m[a]	•	•	•	N/A	N/A	N/A
VE801R	70m[b]	N/A	N/A	•	N/A	N/A	N/A
VE802R	70m[b]	•	•	•	N/A	N/A	N/A
VE811R	100m[a]	N/A	N/A	•	N/A	N/A	N/A
VE805R (with Scaler)	70m[d]	•	•	N/A	•	•	N/A
VE812R	100m[a]	N/A	N/A	•	N/A	N/A	N/A
VE814AR	100m[a]	•	•	•	N/A	N/A	N/A
VE816R (with Scaler)	100m[a]	•	•	•	•	•	•
VE601R (DVI)	70m[c]	N/A	N/A	N/A	N/A	N/A	N/A
VE901R (DisplayPort)	70m[b]	N/A	N/A	•	N/A	N/A	N/A

a. Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (Cat 5e/6/6a)
b. Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
c. Up to 1920x1200 @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
d. Up to 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)

Specifications

	VM7514 / VM8514
Video Input	
Interfaces	VM7514: 4 x RJ-45 Female (Silver)
Impedance	100 Ω
Video Output	
Interfaces	VM8514: 4 x RJ-45 Female (Silver)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	VM7514: HDBaseT, HDCP 1.4 compatible VM8514: HDBaseT, HDCP 2.2 compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	100 m (Cat 6a)*
Control Channel	
RS-232	4 x Captive Screw Connectors, 3 Pole
IR	4 x Mini Stereo Jack Female (Black)
Power	
Consumption	VM7514: 24.5W; VM8514: 12.2W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7514: 0.64 kg (1.41 lb); VM8514: 0.97 kg (2.14 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4 x Terminal Block Connectors; 1x IR Transmitter; 1x IR Receiver

Note: *We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
HDBaseT Receiver (for VM8514)	VE816R, VE805R, VE2812R, VE814AR, VE811R, VE1812R, VE812R, VE801R, VE802R, VE901R, VE601R	9-19, 9-20, 9-23, 9-24, 9-26, 9-27, 9-28, 9-29, 9-30, 9-31, 9-32
HDBaseT Transmitter (for VM7514)	VE814AT, VE811T, VE1812T, VE812T, VE801T, VE802T, VE901T, VE601T, VE1801AEUT, VE1801AUST, VE3912T	9-24, 9-26, 9-27, 9-28, 9-29, 9-30, 9-31, 9-32, 9-36, 9-36, 9-21

VM7904 4-Port 4K DisplayPort Input Board

Video In DisplayPort | Stereo Audio | Balanced Audio | EDID



Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Connects up to 4 DisplayPort inputs to up to 16 (VM1600A) or 32 (VM3250 / VM3200) displays
- Superior Video Quality – up to 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
- Audio-enabled – DisplayPort audio can be exracted and stereo audio can be embedded
- EDID Expert – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- Support DP1.1 with data rate up to 10.8 Gbps (2.7 Gbps per lane)
- HDCP 2.2 compatible
- Hot-swappable design for easy integration and maintenance

Specifications

	VM7904
Video Input	
Interfaces	4 x DisplayPort Female (Black)
Impedance	100 Ω
Max. Distance	Up to 3 m
Video	
Max. Data Rate	10.8 Gbps (2.7 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDCP Compatible
Max. Resolution	4096 x 2160 @ 30Hz (4:4:4); 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole (Green) *Audio signal type: stereo, balanced / unbalanced
Power	
Consumption	7.18W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.55 kg (1.21 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4 x Terminal Blocks

Optional Accessories

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP	12-8

*Cables with different lengths are available; please refer to 12-8.

VM7824 4-Port True 4K HDMI Input Board
VM8824 4-Port True 4K HDMI Output Board with Scaler

(VM7824) (VM8824) (VM8824) (VM8824) (VM8824) (VM8824)

VM7824



VM8824



Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- True 4K Resolutions – handles uncompressed video resolutions up to 3840 x 2160 / 4096 x 2160 @ 60Hz (4:4:4)
- Scaler – features a 4K video scaling functionto integrate a video wall seamlessly with various output video resolutions (VM8824)
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions (VM8824)*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI (VM8824)*
- True 4K EDID Expert – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8824)
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Cable Quality Tester – examines the HDMI cable quality
- Consumer Electronics Control (CEC) support
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

	VM7824 / VM8824
Video Input	
Interfaces	VM7824: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	VM8824: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video	
Max. Data Rate	18.0 Gbps (6.0 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole *Audio signal type: stereo, balanced / unbalanced
Output	
Power	
Consumption	VM7824: 8.95W; VM8824: 38.97W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7824: 0.55 kg (1.21 lb); VM8824: 0.65 kg (1.43 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4 x Terminal Blocks

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VM7814 4-Port 4K HDMI Input Board
VM8814 4-Port 4K HDMI Output Board with Scaler

(VM7814) (VM8814) (VM8814) (VM8814) (VM8814) (VM8814)

VM7814



VM8814



Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Superior Video Quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080); 4K @ 60 (4:2:0)
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8814)
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions (VM8814)*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI (VM8814)*
- HDMI (3D, Deep Color); HDCP 2.2 compatible
- Cable Quality Tester – examines the HDMI cable quality
- Consumer Electronics Control (CEC) support
- EDID Expert – sselects optimum EDID settings for smooth power-up and the highest quality display
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8814)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

Specifications

	VM7814 / VM8814
Video Input	
Interfaces	VM7814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	VM8814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
Video	
Max. Data Rate	10.2 Gpbs (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole
Output	*Audio signal type: stereo, balanced / unbalanced
Power	
Consumption	VM7814: 4.45W; VM8814: 20W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7814: 0.56 kg (1.23 lb); VM8814: 0.65 kg (1.43 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4 x Terminal Blocks

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VM7804 4-Port HDMI Input Board
VM8804 4-Port HDMI Output Board with Scaler

A/V In HDMI (VM7804) | A/V Out HDMI (VM8804) | Scaler (VM8804) | Seamless Switch (VM8804) | Video Wall (VM8804) | Balanced Audio | EDID

VM7804



VM8804



Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Superior Video Quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080)
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded
- Built-in scaler on each output port to support the scaling function for different video resolutions (VM8804)
- Seamless Switch™ – provides continuous video streams, realtime switching and stable signal transmission (VM8804)*
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- EDID Expert – selects optimum EDID settings for smooth power-up and the highest quality display

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

Specifications

	VM7804 / VM8804
Video Input	
Interfaces	VM7804: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	VM8804: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
Video	
Max. Data Rate	6.75 Gpbs (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	VM7804: Up to 1920 x 1080; VM8804: Up to 1920 x 1200
Audio	
Input	4 x Captive Screw Connector, 5 Pole *Audio signal type: stereo, balanced / unbalanced
Output	
Power	
Consumption	VM7804: 7W; VM8804: 23.13W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.58 kg (1.28 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4 x Terminal Blocks

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VM7604 4-Port DVI Input Board
VM8604 4-Port DVI Output Board with Scaler

(VM7604) (VM8604) (VM8604) (VM8604) (VM8604)

VM7604



VM8604



Features

- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Built-in scaler on each output port to support the scaling function for different video resolutions
- Seamless Switch™ – provides continuous video streams, real-time switching and stable signal transmissions (VM8604)
- Superior video quality – up to 1920 x 1200 @ 60Hz
- HDCP 1.4 compatible
- EDID Expert – selects optimum EDID settings for smooth power-up and the highest quality display
- Audio-enabled

Specifications

	VM7604 / VM8604
Video Input	
Interfaces	VM7604: 4 x DVI-D Female (White)
Impedance	100 Ω
Video Output	
Interfaces	VM8604: 4 x DVI-D Female (White)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gpbs (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1200
Max. Distance	5 m
Audio	
Input	4 x Captive Screw Connector, 5 Pole *Audio signal type: stereo, balanced/unbalanced.
Output	
Power	
Consumption	VM7604: 10.62W; VM8604: 20.10W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.55 kg (1.21 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Block Connectors

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Optional Accessories

Description	Part No. / Spec.	Page No.
DVI-D Cable*	2L-7D03DD (3 m)	12-8

*Cables with different lengths are available; please refer to 12-8.

VM7404 4-Port 3G-SDI Input Board

Video In SDI | Balanced Audio | 3G-SDI



Features

- Connects up to 4 SDI inputs
- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Support SD-SDI, HD-SDI and 3G-SDI formats
- Hot-swappable design for easy integration of I/O boards

Note: When the VM7404 is used in conjunction with output boards featuring scalers, the Seamless Switch™, scaler and video wall functions can be used.

Specifications

	VM7404
Video Input	
Interfaces	4 x BNC Female
Impedance	75 Ω
Video	
Supported Resolutions	PAL/50 PAL and NTSC/59.94 720p 25, 29.97, 30, 50, 59.94, 60 1080i 50, 59.94, 60 1080PsF 25, 29.97, 30 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Max. Data Rate	2.97 Gpbs
Max. Distance	100m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
SDI Formats	3G-SDI, SMPTE-259, 292, 424, 425 Level A & B-DL
Audio Inputs	
Interfaces	4 x Captive Screw Connectors, 5 pole * Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	16.0 W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Weight	0.60 kg (1.32 lb)
Housing	Metal
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Block Connectors

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

VM7104 4-Port VGA Input Board





Features

- Connects up to 4 VGA or Component inputs
- Compatible with the VM Modular Matrix Switches; mix and match with modular I/O boards of any type for optimum flexibility
- Supports RGBHV / RGBS / YPbPr / YCbCr input signals
- Hot-swappable design for easy integration of I/O boards

Specifications

	VM7104
Video Input	
Interfaces	4 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1200
Max. Distance	1.8 m
Audio Inputs	
Interfaces	4 x Captive Screw Connectors, 5 Pole * Audio signal type: stereo, balanced / unbalanced
Power	
Consumption	7.1 W
Environmental	
Operating Temperature	0 – 40°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)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4 x Terminal Block Connectors

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).



Fixed I/O Video Matrix Switches

ATEN Fixed I/O Video Matrix Switches simplify the task of routing AV signals from a set number of inputs to various output destinations. Each input can be directed to any or all outputs, giving you the ultimate flexibility to extend your installation with excellent video quality. Featuring Standard, Seamless, and HDBaseT™ series, all models in each series are optimally designed for any AV application needs no matter the size, environment, or complexity of your installation.



- **Seamless Switching**
  ATEN's unique Seamless Switch™ technology features close-to-zero second video switching from any input to any output with no black screens.

- **Tear-free Video Walls**
  ATEN's FrameSync Technology prevents screen tearing by synchronizing the scaler frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls.

- **Scaling for Optimized Output**
  A unique scaler utilizes ATEN FPGA technology to unify various video input signals and render optimized output resolutions on displays with uncompromised precision.

- **True 4K, HDR**
  Features models with up to True 4K resolutions with HDR, which supports popular HDR formats on the market, delivering more vivid and vibrant video for your applications.

- **Exclusive Technologies**
  ATEN's proprietary technologies such as EDID Expert™ and HDCP technology optimize output capability throughout your installations and ensure that content can be transmitted and switched with no compatibility issues.

- **Multiple Control Methods**
  Provides multiple built-in control interfaces including RS-232, IR, Ethernet, pushbuttons, Web GUI, as well as the free ATEN Video Matrix Control App, making control easier than ever.

ATEN Fixed I/O Video Matrix Switches

Standard Series	Seamless Series
Offers an easy and cost-effective way to route any input to output with up to True 4K HDR support.	Features ATEN's Seamless Switch™, Framesync, and scaler technologies for delivering extra seamless visual experiences.
Models	
VM0404HB,VM0808HB, VM0404HA, VM0202HB, VM0202H, VM0404, VS0202	VM6404HB, VM6809H, VM51616H, VM5404H, VM5808H

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

Specifications at a Glance

Series	Seamless			
Interface	HDMI			
Model	VM6404HB	VM6809H	VM51616H	VM5404H VM5808H
Inputs to Outputs	4 to 4	8 to 9	16 to 16	4 to 4 / 8 to 8
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	1080p	1080p
HDR	•	N/A	N/A	N/A
HDCP	2.2	2.2	1.4	1.4
Audio	• (HDMI, Stereo)	• (HDMI, Stereo)	• (HDMI, Stereo)	• (HDMI)
Seamless Switch™	•	•	•	•
Scaler	•	•	•	•
Video Wall	•	•	•	•
FrameSync	•	•	•	N/A
Audio De-embedding	•	•	•	N/A
Web GUI	•	•	•	•
RS-232 Control	•	•	•	•
IR Control	•	N/A	N/A	•
Ethernet Control	•	•	•	•

*The availability of these features depends on which receiver is used

Series	Standard					
Interface	HDMI				VGA	
Model	VM0404HB VM0808HB	VM0404HA	VM0202HB	VM0202H	VM0404	VS0202
Inputs to Outputs	4 to 4 / 8 to 8	4 to 4	2 to 2	2 to 2	4 to 4	2 to 2
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:2:0)	4K@60Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	1920 x 1440	1920 x 1200
HDR	•	N/A	•	N/A	N/A	N/A
HDCP	2.2	1.4	2.2	1.4	N/A	N/A
Audio	• (HDMI)	• (HDMI)	• (HDMI, Stereo)	• (HDMI)	• (Stereo)	• (Stereo)
Web GUI	•	N/A	N/A	N/A	N/A	N/A
RS-232 Control	•	•	•	•	•	N/A
IR Control	•	•	•	•	•	N/A
Ethernet Control	•	N/A	N/A	N/A	N/A	N/A

VM6404HB 4 x 4 True 4K HDMI Matrix Switch with Scaler

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A/V In HDMI | A/V Out HDMI | Audio Out Stereo | Seamless Switch | HDCP 2.2 | IR Remote Control | Video Wall | RS-232 Control | FPGA Design | 4K Scaler | EDID | FrameSync

Front



Rear



Features

- 4 x 4 HDMI I/O connections
- True 4K Resolutions – handles uncompressed video resolutions up to 3840 x 2160 / 4096 x 2160 @ 60Hz (4:4:4)
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- 4K Scaler – features a 4K video scaling function to convert input resolutions to the optimum display resolutions
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- True 4K EDID Expert – selects optimum EDID settings for smooth power-up, the highest quality display, and use of the best resolution across different screens
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Audio-enabled – HDMI audio can be extracted to stereo audio
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) support
- ESD protection for HDMI
- Rack-mountable (1U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

	VM6404HB
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5m
Video	
Max. Data Rate	18.0 Gbps (6.0 Gbps per lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Distance	Up to 5 m
Audio	
Output	1x Mini Stereo Jack Female
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female
EDID Settings	**EDID Mode:** Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC;50-60Hz;1.0A
Consumption	AC110V: 43.7W; AC220V: 43.1W
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)
Dimensions (L x W x H)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit
Optional Accessories	Please refer to 5-34

VM6809H 8 x 9 4K HDMI Matrix Switch with Scaler

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4K HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

A/V In HDMI | A/V Out HDMI | Audio Out Stereo | FPGA Design | 4K Scaler | EDID | Video Wall | HDCP 2.2 | Seamless Switch | RS-232 Control | FrameSync

Front





Features

- 4 x 4 or 8 x 9 HDMI I/O connections
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232, and Ethernet connections
- 4K Scaler – features a 4K video scaling function to convert input resolutions to the optimum display resolutions
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Audio-enabled – HDMI audio can be extracted to stereo audio (VM6809H)
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) support
- ESD protection for HDMI
- Rack-mountable (1U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

	VM6809H
Video Input	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video Output	
Interfaces	9 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	10.2 Gbps (3.40 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
Audio	
Output	1 x Mini Stereo Jack Female (Green)
Control	
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud Rate:** 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
IR	N/A1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)
Power	
Connectors	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	AC110V: 79.5W; AC220V: 78.1W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	7.05 kg (15.53 lb)
Dimensions (L x W x H)	43.24 x 45.03 x 4.40 cm (17.02 x 17.73 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x Mounting Kit
Optional Accessories	Please refer to 5-34

VM51616H 16 x 16 HDMI Matrix Switch with Scaler

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A/V In HDMI | A/V Out HDMI | RS-232 Control | Video Wall | EDID | FPGA Design | Scaler | Seamless Switch | Audio Out Stereo | FrameSync

Front



Rear



Features

- 16 x 16 HDMI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front panel pushbuttons, RS-232, and Ethernet connections
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Local HDMI Output – allows multiple preview of 16 video sources
- Audio-enabled – HDMI audio can be extracted to stereo audio
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby TrueHD and DTS HD Master audio
- ESD protection for HDMI
- Rack-mountable (2U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

	VM51616H
Video Input	
Interfaces	16 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	16 x HDMI Type A Female (Black) (Array Mode): 1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Audio	
Output	1 x Mini Stereo Jack Female (Green)
Control	
RS-232	**Connector:** 1 x DB-9 Female (Black) **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Ethernet	1 x RJ-45 Female
EDID Settings	**EDID Mode:** Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC110V: 124.5W; AC220V: 121.8W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	7.86 kg (17.33 lb)
Dimensions (L x W x H)	43.24 x 38.18 x 8.80 cm (17.02 x 15.03 x 3.46 in.)
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x Mounting Kit
Optional Accessories	Please refer to 5-34

VM5404H 4 x 4 HDMI Matrix Switch with Scaler
VM5808H 8 x 8 HDMI Matrix Switch with Scaler

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HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | EDID | FPGA Design | Scaler | Seamless Switch | Video Wall

Front

VM5404H



VM5808H

Rear

VM5404H



VM5808H

Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI*
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby TrueHD and DTS HD Master audio
- ESD protection for HDMI
- Rack-mountable (1U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

	VM5404H	VM5808H
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3 m	3 m
Video Output		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
Max. Pixel Clock	225 MHz	
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 1080p	
Max. Distance	Up to 15 m	
Control		
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female	
EDID Settings	**EDID Mode:** Default / Port1 / Remix / Customized (EDID Wizard support)	
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC110V: 34.1W; AC220V: 34.4W	AC110V: 56.5W; AC220V: 55.0W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	4.05 kg (8.92 lb)	4.16 kg (9.16 lb)
Dimensions (L x W x H)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
Optional Accessories	Please refer to 5-34	

VM0404HB 4 x 4 True 4K HDMI Matrix Switch
VM0808HB 8 x 8 True 4K HDMI Matrix Switch

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A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | EDID | HDCP 2.2

Front VM0404HB



VM0808HB

Rear VM0404HB



VM0808HB

Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports True 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232 control, and Ethernet connections
- Support HDR10+
- Intuitive web GUI control and management
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best video resolutions across different screens
- Signaling rates up to 6 Gbits for flawless True 4K output
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- Power on Detection – switches to the next powered-on source when one source is powered off
- ESD protection for HDMI
- Rack Mountable (1U design)

Specifications

	VM0404HB	VM0808HB
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	5 m; 4K @ 60Hz (4:4:4)	
Video Output		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	5m; 4K @ 60Hz (4:4:4) / 15m; 1920 x 1200	
Video		
Max. Data Rate	18 Gbps (6 Gbps Per Lane)	
Max. Pixel Clock	600 MHz	
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	
Control		
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female	
EDID Settings	**EDID Mode:** Default / Port 1 / Remix / Customized (EDID Wizard Support)	
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC110V: 17.8W; AC220V: 17.6W	AC110V: 38.1W; AC220V: 37.8W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	2.47 kg (5.44 lb)	3.99 kg (8.79 lb)
Dimensions (L x W x H)	43.72 x 15.28 x 4.40 cm (17.21 x 6.02 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Rack Mounting Kit	
Optional Accessories	Please refer to 5-34	

VM0404HA 4 x 4 4K HDMI Matrix Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | EDID

Front



Rear



Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 control
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best video resolutions across different screens
- Supports Dolby TrueHD and DTS HD Master audio
- Signaling rates up to 3.4 Gbits for flawless 4K output
- HDMI (3D, Deep Color, 4K); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- ESD protection for HDMI
- Rack Mountable (1U design)

Specifications

	VM0404HA
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDCP 1.4 Compatible
	HDMI (3D, 4K, Deep Color); Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
Control	
USB	1 x Micro USB for F/W upgrade
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	N/A
EDID Settings	**EDID Mode:** Default / Port1 / Remix
Power	
Connectors	1 x DC Jack (Black)
Maximum Input Power Rating	N/A
Consumption	DC5V: 9.62W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.02 kg (4.45 lb)
Dimensions (L x W x H)	43.72 x 16.29 x 4.40 cm (17.21 x 6.41 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x Power Adapter; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit
Optional Accessories	Please refer to 5-34

VM0202HB 2 x 2 True 4K HDMI Matrix Switch with Audio De-Embedder

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | EDID | HDCP 2.2 | Audio Out Line Out | Audio Out Stereo

Front



Rear



Features

- 2 x 2 HDMI I/O connection
- True 4K Resolutions – handles uncompressed video resolutions up to 3840 x 2160 / 4096 x 2160 @ 60Hz (4:4:4)
- Configuration and control via front-panel pushbuttons, IR remote, and RS-232 connection
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best video resolutions across different screens
- HDMI (3D, Deep Color, 4k); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- Audio-enabled – HDMI audio can be extracted to stereo output
- ESD protection for HDMI
- Rack-mountable (1U design)

Specifications

	VM0202HB
Video Input	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video	
Max. Data Rate	18.0 Gbps (6.0 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, 4K, Deep Color); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Distance	Up to 5 m
Audio	
Output	1x Mini Stereo Jack Female; 1x Captive Screw Connector, 3 pole
Control	
USB	1 x Micro USB; F/W upgrade
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	**EDID Mode:** Default / Port1 / Remix
Power	
Connectors	1 x DC Jack (Black)
Consumption	DC5V:2.47W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.60 kg (1.32 lb)
Dimensions (L x W x H)	20.00 x 7.60 x 4.20 cm (7.87 x 2.99 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	1x 3-pole Terminal Block; 1x Power Adapter; 1x IR Remote Control; 1x IR Receiver; 1x Rack Mount Kit
Optional Accessories	Please refer to 5-34

VM0202H 2 x 2 4K HDMI Matrix Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | EDID

Front



Rear



Features

- 2 x 2 HDMI I/O connection
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Configuration and control via front-panel pushbuttons, IR remote, and RS-232
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best video resolutions across different screens
- HDMI (3D, Deep Color, 4k); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- ESD protection for HDMI
- Rack-mountable (1U design)

Specifications

	VM0202H
Video Input	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, 4K, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
Control	
USB	1 x Micro USB; F/W upgrade
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	**EDID Mode:** Default / Port1 / Remix
Power	
Connectors	1 x DC Jack (Black)
Consumption	DC5V:4.3W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.58 kg (1.28 lb)
Dimensions (L x W x H)	20.00 x 7.60 x 4.20 cm (7.87 x 2.99 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x IR Remote Control; 1x IR Receiver; 1x 1x Rack Mount Kit
Optional Accessories	Please refer to 5-34

VM0404 4 x 4 VGA/Audio Matrix Switch

Video In HDB-15 | Video Out HDB-15 | RS-232 Control | IR Remote Control | Stereo Audio | EDID

Front VM0404



Rear VM0404



Features

- 4 x 4 VGA/Audio I/O connections
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 connections
- Long distance transmission up to 30m
- Superior video quality – up to 1920 x 1440; VGA, SVGA, XGA, SXGA, UXGA, and WUXGA (1920 x 1200)
- Supports up to 300 MHz bandwidth for high-performance video
- Built-in bi-directional RS-232 serial port for high-end system control
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- Independent switching of audio and video sources
- Rack-mountable (1U design)

Specifications

	VM0404
Video Input	
Interfaces	4 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	4 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Distance	30 m
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Audio	
Input	4 x Mini Stereo Jack Female (Green)
Output	
Control	
RS-232	**Connector:** 1 x DB-9 Female (Black); **Baud rate and protocol:** Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	**EDID Mode:** Mode: Default / Port1 / Remix / Auto
Power	
Connectors	1 x DC Jack (Black)
Consumption	DC5V:2.54W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.87 kg (1.92 lb)
Dimensions (L x W x H)	26.00 x 7.61 x 4.40 cm (10.24 x 3 x 1.73 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-8
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
IR Remote Control	2XRT-0106G	13-2
Mounting Kit	2X-020G	13-2

VS0202 2 x 2 VGA/Audio Matrix Switch

Video In HDB-15 | Video Out HDB-15 | Stereo Audio

Front



Rear





Features

- 2 x 2 VGA/Audio I/O connections
- Each output can toggle between 2 inputs via front-panel pushbuttons
- Audio enabled
- Duplicate and enhance video signals to up to 30 m (max.)
- Expandable: cascade to ATEN's video splitters to support hundreds of video displays
- Video bandwidth up to 200 MHz

Specifications

	VS0202
Video Input	
Interfaces	2 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	2 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	200 MHz
Max. Resolution	Up to 1920 x 1200
Max. Distance	Up to 30 m
Audio	
Input	2 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V:2.43W
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)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)
Carton Lot	20 pcs
Included Accessories	1x VGA/Audio Cable (1.8m); 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-8

ATEN Video Matrix Control App

Turn your mobile phone into a remote control for ATEN Video Matrix Switches



Android iOS

ATEN Video Matrix Control App

Download on the App Store

GET IT ON Google Play

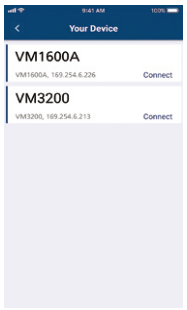
Android iOS

The ATEN Video Matrix Control App is a free app that supports iOS and Android operating systems.

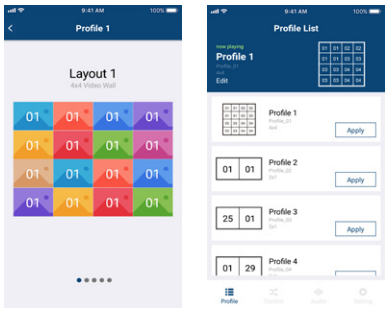
This mobile app provides intuitive operation with direct access to manage ATEN Video Matrix Switches anytime, anywhere to make AV matrix control even easier than before.

Features

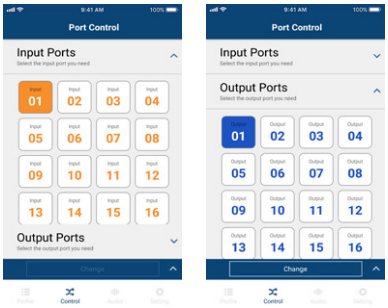
- Simple Login
  Auto search for devices and tap any Video Matrix Switch to log in.



- Easy Profile Change
  Flick between multiple layouts instantly.
  View and apply a new profile via visualized Profile ID.



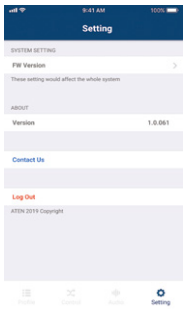
- Instant Source Switching
  Switch input sources on-the-go via graphical layout preview.



- Audio Control
  Turn on/off or embed/de-embed audio with ease.



- Firmware Update Reminder
  Keeps you posted about the latest updates.



Note: The supported features differ by models. Current models supported: VM0404HB, VM0808HB, VM5404H, VM5808H, VM51616H, VM6404HB, VM6809H, VM1600A, VM3200, VM3250.

Optional Accessories

VM6404HB / VM5404H / VM5808H / VM0404HB / VM0808HB / VM0404HA

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0106G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2

VM6809H / VM51616H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

VM0202HB / VM0202H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0106G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2

*Cables with different lengths are available; please refer to 12-7.

Media Distribution Solutions

ATEN's Media Distribution Solutions (MDS) deliver up to 4K UHD video content over HDBaseT or standard Cat 5e/6 cables to multiple displays from a single input source. There are three solutions available: HDBaseT, HDMI Standard, and VGA Standard.

Flexible and scalable, these solutions give you the freedom to set up any kind of high-quality video display customized for various applications from retail media to public information systems.



Specifications at a Glance

Solution		HDBaseT*			HDMI Standard	
Combination	Splitter	VS1814T / VS1818T			VS1804T / VS1808T	
	Repeater					VB802**
	Receiver	VE811R	VE812R	VE801R	VE800AR	VE800AR
AV Output (Splitter)		4 / 8			4 / 8	
Max. Resolution / Distance		4K@100m	4K@100m	4K@40m	1080p@40m	1080p@300m
Long Reach (1080p@150m)		•	N/A		N/A	
Audio		• (HDMI)			• (HDMI)	
Picture Adjustment		Auto			EQ Switch	

Solution		VGA Standard		
Combination	Splitter	VS1204T / VS1208T		
	Receiver	VE172R	VE170R	VE170RQ
AV Output (Splitter)		4 / 8		
Max. Resolution / Distance		1280 x 1024@150m	1024 x 768@300m	1280 x 1024@300m
Audio		• (Mono)		
Picture Adjustment		Knob		

*Ensure high-quality maximum distance video transmission with ATEN HDBaseT Cat6 Cable, 2L-2910.
** Cascade VB802 up to five levels to achieve 1080p@300m performance.



- **Single Source to Multiple Displays**
  These devices take the input from a single AV source and send it to multiple destinations, so that several target devices can reproduce the same video content simultaneously. You can cascade these devices to three levels to achieve even greater media coverage with your installation.

- **Superior Video Quality**
  Outstanding video output is achieved through the incorporation of several features – including picture adjustment, EDID mode selection, and ATEN's patented Deskew Technology that automatically corrects display errors that can occur when video is transmitted over long distances. The result is clear, sharp, and optimized video in realtime.

- **HDBaseT™ Technology**
  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.

- **Convenient Local Management**
  Convenient monitoring of the video being sent to each display is achieved through support for local AV output. If a problem occurs, administrators can take steps to remedy the situation in a timely manner.

- **Control System Integration**
  The built-in RS-232 serial port allows you to effortlessly integrate your own control system and customize the control process according to your needs. Serial RS-232 support also gives you the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, and kiosk touch screens – as part of the installation.

Note: 1.The features highlighted above are not available on all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.

VS1814T / VS1818T 4/8-Port HDMI HDBaseT Splitter (HDBaseT Class A)

A/V In HDMI | A/V Out HDMI | A/V Out HDBaseT | RS-232 Control | EDID

Front VS1814T



VS1818T

Rear VS1814T

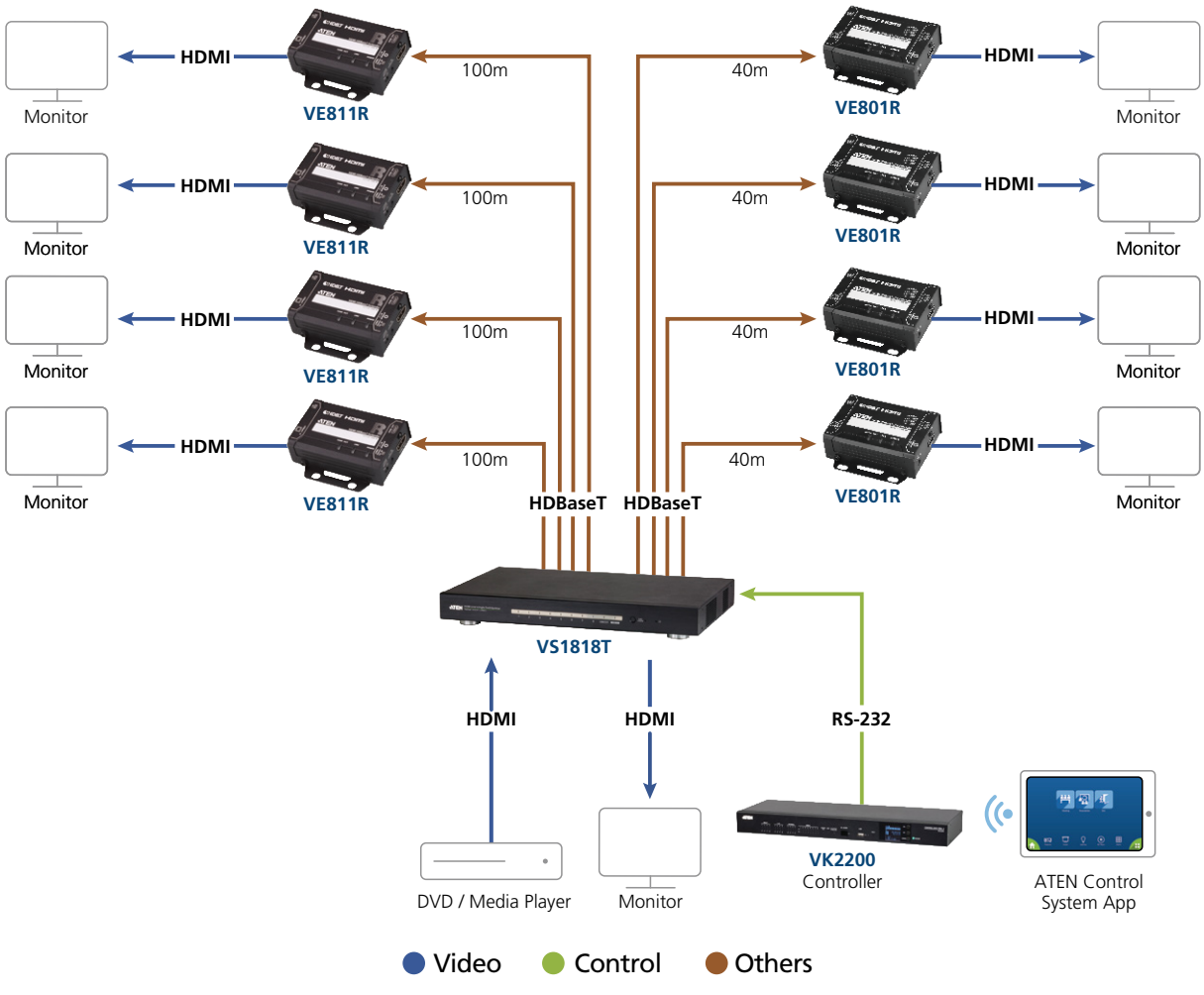


VS1818T

Features

- HDBaseT Connectivity – connects 1 HDMI input to 4/8 HDMI outputs over a long distance via single Cat 6/6a cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- System management via RS-232 connection
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- A local HDMI port to connect an extra HDMI display
- Rack-mountable

Setup > VS1818T + VE811R + VE801R



Specifications

	VS1814T	VS1818T
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black) - Local Output 4 x RJ-45 Female	1 x HDMI Type A Female (Black) - Local Output 8 x RJ-45 Female
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC) HDBaseT Compatible	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC) HDBaseT Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) (Depends on connected receiver)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) (Depends on connected receiver)
Max. Distance	Up to 100 m (Depends on connected receiver)	Up to 100 m (Depends on connected receiver)
Audio		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default / Port 1 / Auto / Learn	EDID Mode: Default / Port 1 / Auto / Learn
Connectors		
Power	1 x 3-Prong AC Socket (Black)	1 x 3-Prong AC Socket (Black)
Consumption	AC110V: 18.2W; AC220V: 18.2W	AC110V: 31.7W; AC220V: 31.7W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	3.47 kg (7.64 lb)	3.58 kg (7.89 lb)
Dimensions (L x W x H)	43.24 x 26.11 x 4.40 cm (17.02 x 10.28 x 1.73 in.)	43.24 x 26.11 x 4.40 cm (17.02 x 10.28 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x Mounting Kit	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
HDMI HDBaseT-Lite Receiver	VE801R	6-7
HDMI HDBaseT Receiver	VE812R	6-6
HDMI HDBaseT Receiver	VE811R	6-5

*Cables with different lengths are available; please refer to 12-7.

VE811R HDMI HDBaseT Receiver (4K@100m)(HDBaseT Class A)

A/V In HDBaseT | A/V Out HDMI | Long Reach Mode

Front



Rear





Features

- HDBaseT Connectivity – extends an HDMI connection up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Plug-and-play
- Rack-mountable
- HDBaseT Long Reach Mode – up to 150 m via a single Cat5e/6/2L-2910 at resolutions up to 1080p

Specifications

	VE811R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m (2L-7D03H)
Video	
Max. Data Rate	10.2 Gbps (3.4Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e / 6) / 100m (Cat 6a / ATEN 2L-2910 Cat6); 1080p @ 100m (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)
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Firmware Upgrade	1 x Mini Stereo Jack Female (Black)
Power	1 x DC Jack (Black) withLocking
Switches	
Long Reach Mode Switch	1 x Slide Switch - On / Off
Power Consumption	DC5V:3.84W
Environmental	
Operating Temperature	0 – 40°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) with bracket	8.64 x 7.30 x 2.47 cm (3.40 x 2.87 x 0.97 in.)
Dimensions (L x W x H) without bracket	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)
Carton Lot	10 pcs
Included Accessories	1 x Power Adapter

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VE812R HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A)

A/V In HDBaseT | A/V Out HDMI

Front





Rear



Features

- HDBaseT Connectivity – extends an HDMI output over a long distance via a single 5e/6/6a or ATEN 2L-2910 Cat 6 Cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

Specifications

	VE812R
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m (2L-7D03H)
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a) / 1080p @ 100m (ATEN 2L-2910 Cat 6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack
Power Consumption	DC5.3V:5.06W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.41 kg (0.9 lb)
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
Carton Lot	5 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VE801R HDMI HDBaseT-Lite Receiver (4K@40m)(HDBaseT Class B)

A/V In HDBaseT | A/V Out HDMI

Front



Rear





Features

- HDBaseT Connectivity – extends an HDMI output over a long distance via a single 5e/6/6a or ATEN 2L-2910 Cat 6 Cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology

Specifications

	VE801R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m (2L-7D03H)
Video	
Max. Data Rate	10.2 Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Unit To Unit	1 x RJ-45 Female
Power Consumption	DC5V: 4.24W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.25 kg (0.55 lb)
Dimensions (L x W x H) with bracket	9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	10 pcs
Included Accessories	1 x Power Adapter

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VS1804T / VS1808T 4/8-Port HDMI Cat 5 Splitter

A/V In HDMI | A/V Out HDMI | A/V Out RJ-45 | RS-232 Control | EDID

Front

VS1804T



VS1808T

Rear

VS1804T



VS1808T

Features

- Connects 1 HDMI input to 4/8 HDMI outputs via Cat 5e cables*
- System management via RS-232 connection
- A local HDMI port to connect an extra HDMI display
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Rack-mountable

*If you need to use EDID Bypass and / or HDCP authentication, connect another Cat 5e cable between the VS1804T/1808T and VE800AR.

Specifications

	VS1804T	VS1808T
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black) - Local Output 8 x RJ-45 Female	1 x HDMI Type A Female (Black) - Local Output 16 x RJ-45 Female
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color); HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p (Depends on connected receiver)	Up to 1080p (Depends on connected receiver)
Max. Distance	Up to 60 m (Depends on connected receiver)	Up to 60 m (Depends on connected receiver)
Audio		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default / Port 1 / Learn	EDID Mode: Default / Port 1 / Learn
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Power Consumption	DC5.3V:5.2W	DC5.3V:7.77W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	2.10 kg (4.63 lb)	2.15 kg (4.74 lb)
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	3 pcs	3 pcs
Included Accessories	1x Power Adapter; 1x Foot Pad Set (4 pcs); 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
HDMI Repeater	VB802	6-9
HDMI Receiver	VE800AR	6-10

*Cables with different lengths are available; please refer to 12-7.

VB802 HDMI Cat 5 Repeater (1080p@40m)

A/V In RJ-45 | A/V Out RJ-45 | A/V Out HDMI

Front



Rear





Features

- Extends HDMI signals via two Cat 5e cables
- A local HDMI port to connect an extra HDMI display
- Supports 8-segment equalization adjustment for optimum display quality
- Cascadable to 5 levels*
- Firmware upgradable
- Rack-mountable

Note: *Signal quality depends on cable. It is recommended you use an STP Cat 5e cable or ATEN low skew cable.

Specifications

	VB802
Video Output	
Interfaces	1 x HDMI Type A Female (Black) 2 x RJ-45 Female
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p @ 40m; 1080i @ 60m
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black)
Power Consumption	DC5V:12.28W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.25 kg (0.55 lb)
Dimensions (L x W x H)	12.30 x 9.04 x 2.26 cm (4.84 x 3.56 x 0.89 in.)
Carton Lot	20 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available; please refer to 12-7.

VE800AR HDMI Cat 5 Receiver (1080p@40m)

A/V In RJ-45 | A/V Out HDMI

Front



Rear





Features

- Extends an HDMI output via single Cat 5e cable*
- Supports 8-segment equalization adjustment for optimum display quality
- Rack-mountable

Note: *A second Cat 5e cable is required if EDID Bypass and / or HDCP authentication needs to be enabled.

Specifications

	VE800AR
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m (2L-7D03H)
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p @ 40m; 1080i @ 60m
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black)
Power Consumption	DC5V: 0.608W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.50 x 2.30 cm (3.54 x 2.17 x 0.91 in.)
Carton Lot	20 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available; please refer to 12-7.

VS1204T / VS1208T 4/8-Port VGA/Audio Cat 5 Splitter

Video In HDB-15 | Video Out HDB-15 | A/V Out RJ-45

Front VS1204T



VS1208T



Rear VS1204T

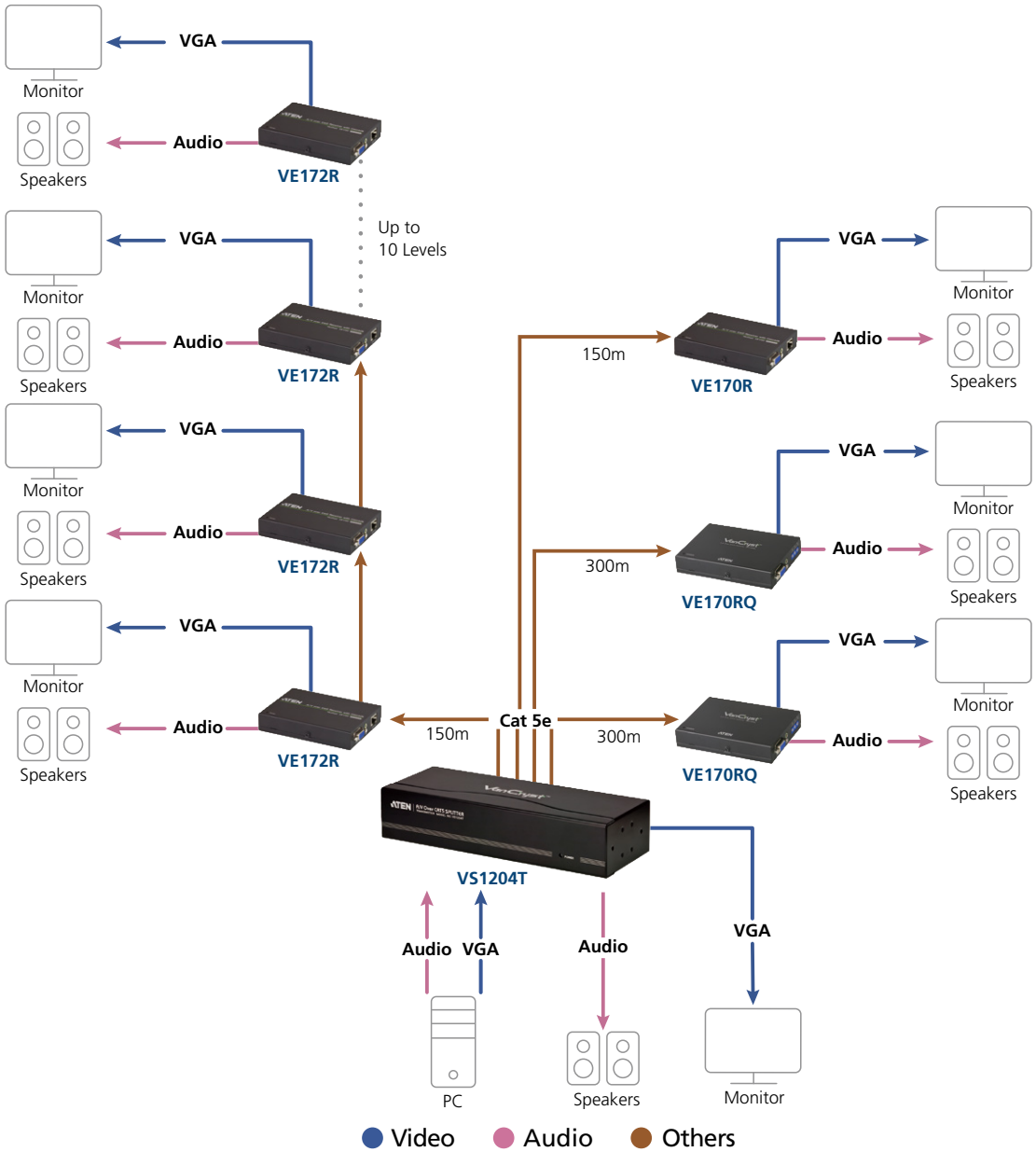


VS1208T

Features

- Connects 1 VGA input to 4/8 VGA outputs via Cat 5e cables
- A local VGA port to connect an extra VGA display
- Rack-mountable

Setup > VS1204T + VE172R + VE170R + VE170RQ



Specifications

	VS1204T	VS1208T
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue) - Local Output 4 x RJ-45 Female	1 x HDB-15 Female (Blue) - Local Output 8 x RJ-45 Female
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	225 MHz	225 MHz
Max. Resolutions / Distance	Up to 1920 x 1200 @ 60Hz @ 150m; 1280 x 1024 @ 60Hz @ 300m	Up to 1920 x 1200 @ 60Hz @ 150m; 1280 x 1024 @ 60Hz @ 300m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Power Consumption	DC5.3V:3.55W	DC5.3V:7.04W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.59 kg (1.3 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit; 1x Foot Pad Set (4 pcs)	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA / Audio Cable	2L-2402A (1.8 m)	12-8
VGA EDID Emulator	2A-130G	10-20
A/V Over Cat 5 Receiver with Cascade	VE172R	6-13
A/V Over Cat 5 Receiver	VE170R	6-14
A/V Over Cat 5 Receiver with Deskew	VE170RQ	6-14

VE172R VGA/Audio Cat 5 Receiver with Cascade (1280 x 1024@150m)



Front



Rear





Features

- Connects a transmitter and a receiver via a Cat 5e cable
- Cascadable up to 10 levels*
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

Note: * Signal quality depends on cable. It is recommended you use STP Cat 5e cables or an ATEN low skew cable.

Specifications

	VE172R
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200 @ 30m; 1280 x 1024 @ 150m
Audio	
Output	1 x Mini Stereo Jack Female (Green)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black)
Power Consumption	DC5.3V: 2.29W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA EDID Emulator	2A-130G	10-20

VE170R VGA/Audio Cat 5 Receiver (1024 x 768@300m)
VE170RQ VGA/Audio Cat 5 Receiver with Deskew (1280 x 1024@300m)

A/V In RJ-45 | Video Out HDB-15 | ATEN Deskew | Video Compensation

(VE170RQ)

Front





Rear



VE170R

VE170RQ

Features

- Connects a transmitter and a receiver via Cat 5e cable
- Deskew (VE170RQ) – automatically synchronizes the time delay of RGB signals to compensate for distance
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

Specifications

	VE170R	VE170RQ
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1600 x 1200@150m; 1024 x 768@300m	Up to 1920 x 1200 @ 150m; 1280 x 1024 @ 300m
Audio		
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Power Consumption	DC5.3V: 3.32W	DC5.3V: 5.24W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.24 kg (0.53 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA EDID Emulator	2A-130G	10-20

Video Switches

ATEN video switches allow you to conveniently display the video output of one to multiple high-resolution computer or source devices on a single or dual monitors. All models offer easy source selection via pushbuttons, RS-232, or IR remote control, meaning you never have to reach behind the monitor. With support for the full range of video standards and many models with audio functionality, ATEN video switches are the perfect choice for meeting rooms, laboratories, research centers, information management centers, and home theater applications.



- **Quick and Easy Port Selection**
  Quickly and easily select the desired media source device among multiple sources with pushbuttons located on the device and with an IR remote control. The remote control lets you select source devices without having to get up and move to the switch to perform the selection with the pushbuttons.

- **Flexible Deployment**
  By combining the switch with an external IR receiver you can locate it close to the media source. This provides greater video quality by keeping the cable distance shorter, while allowing you to control the media selection from a more comfortable location.

- **Outstanding Multimedia Support**
  Audio signals from the source devices are transmitted together with the video – eliminating the need for a separate audio installation for each source and delivering an outstanding AV experience when working with modern multimedia applications.

- **Control System Integration**
  The built-in RS-232 serial port and IR allow you to effortlessly integrate the ATEN Control System or your own control system, and customize the control process according to your needs. RS-232 and IR support also give you the ability to integrate serial devices – such as barcode scanners, POS terminals, kiosk touch screens and more – as part of the installation.

- **Auto Switching**
  The Auto Switching function enables automatic switching between selected ports with priority settings when the source device is connected. There are two types of priority settings that can be configured with Auto Switching: Auto, and Next Switch Priority. Auto places the priority on a particular port while Next Switch Priority places priority on the next port with a new source connected to it.

- **True 4K, HDR**
  Models are available with support for up to True 4K resolutions with HDR that are compatible with all popular HDR formats on the market, delivering more vivid and vibrant video for all your applications.

Note: 1.The features highlighted above are not available on all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.



Specifications at a Glance

Interface	HDMI							
Model	VS0801HB	VS481C	VS481B	VS0801H	VS482B	VS482	VS481A	VS381B
Inputs to Outputs	8 to 1	4 to 1	4 to 1	8 to 1	4 to 2	4 to 2	4 to 1	3 to 1
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:2:0)	1080p	4K@60Hz (4:4:4)	1080p	1080p	4K@60Hz (4:4:4)
HDR	•	•	N/A	N/A	•	N/A	N/A	•
HDCP	2.2	2.2	2.2	1.4	2.2	1.4	1.4	2.2
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI, Stereo, Optical, Coaxial)	• (HDMI, Stereo, Optical, Coaxial)	• (HDMI)	• (HDMI)
Auto Switch	•	•	•	•	•	•	N/A	•
Power-on Detection	•	•	N/A	•	•	•	•	N/A
RS-232 Control	•	•	•	•	•	•	•	N/A
IR Control	•	•	•	•	•	•	•	•

Interface	DVI	VGA			
Model	VS261 / VS461	VS0801A	VS0201 / VS0401	VS291 / VS491	VS201
Inputs to Outputs	2 to 1 / 4 to 1	8 to 1	2 to 1 / 4 to 1	2 to 1 / 4 to 1	2 to 1
Max. Resolution	1920 x 1200	1920 x 1440	1920 x 1440	1920 x 1440	1920 x 1440
HDCP	1.4	N/A	N/A	N/A	N/A
Audio	•	•	•	N/A	N/A
Auto Switch	N/A	•	•	N/A	•
Power-on Detection	•	•	N/A	N/A	N/A
RS-232 Control	N/A	•	•	N/A	N/A
IR Control	•	•	• (Optional)	N/A	N/A

VS0801HB 8-Port True 4K HDMI Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | HDCP 2.2 | Auto Switching

Front



Rear



Features

- 8 x 1 HDMI I/O connections
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – True 4K resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- Supports HDR10+ / HDR10 / Dolby vision / HLG
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

	VS0801HB
Video Input	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	1 x DC Jack (with locking)
Consumption	DC5.3V: 3.73W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.14 kg (4.72 lb)
Dimensions (L x W x H)	43.72 x 15.83 x 4.40 cm (17.21 x 6.23 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control Unit; 1x IR Receiver Cable; 1x Power Adapter; 1x Rack Mount Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5 m)	12-7
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0007G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS0801H 8-Port HDMI Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | Auto Switching

Front



Rear



Features

- 8 x 1 HDMI I/O connections
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA, and WUXGA (1920x1200)
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 commands
- Power-on Detection – switches to the next powered-on source when one source is powered off
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

	VS0801H
Video Input	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m @ 1920 X 1080 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15m @ 1920 X 1080 @ 60 (4:4:4)
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 3.73W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.75 kg (3.85 lb)
Dimensions (L x W x H)	43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control Unit; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
IR Remote Control	2XRT-0007G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS481C 4-Port True 4K HDMI Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | HDCP 2.2 | Auto Switching

Front



Rear



Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compatible
- Superior video quality – True 4K resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- Supports HDR10+ / HDR10 / Dolby vision / HLG
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control

Specifications

	VS481C
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, True 4K) HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate & Protocol: Baud Rate: Baud Rate 19200, Data Bits 8, Stop Bits 1, Parity NO, Flow Control NO
IR	1 x Mini Stereo Jack Female (Black); 1 x IR Receiver
Power	
Connectors	1 x DC Jack (with Locking)
Consumption	DC5V:0.924W
Environmental	
Operating Temperature	0 – 40 °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)	20.00 x 8.21 x 2.50 cm (7.87 x 3.23 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter; 1x IR Remote Control Unit ; 1x HDMI Cable

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5 m)	12-7
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0101G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS481B 4-Port 4K HDMI Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | Instant Switch | HDCP 2.2 | Auto Switching

Front



Rear



Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color, 4K); HDCP compatible
- Superior video quality – 4K resolutions of 4096 x 2160 @ 60 Hz (4:2:0)
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- Instant Switching – instant switch via front-panel pushbuttons, IR remote control, or RS-232 commands
- Bi-directional RS-232 serial port for high-end system control

Specifications

	VS481B
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m @ 3840 x 2160 @ 30Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m @ 3840 x 2160 @ 30Hz (4:4:4)
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	Connector: 1 x DC Jack
Consumption	DC5V: 1.76W
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)	20.00 x 8.25 x 2.50 cm (7.87 x 3.25 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	1x HDMI Cable (1.8m / 6ft); 1x IR Remote Control; 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0101G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS482B 4-Port True 4K HDMI Switch with Dual Output

Audio Out RCA | Audio Out Coaxial | Digital Audio Toslink | A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | Dual View | Audio Return Channel | EDID | HDCP 2.2 | OSD | Auto Switching

Front



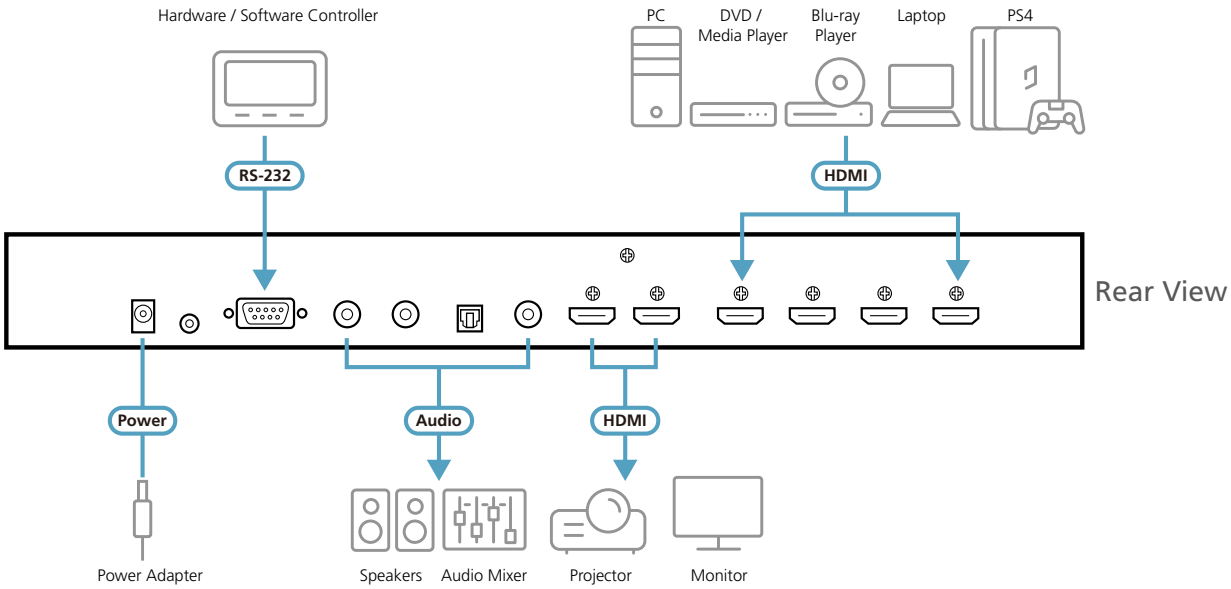
Rear



Features

- 4 x 2 HDMI I/O connections
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
- HDMI (3D, Audio Return Channel, Deep Color); HDCP 2.2 compliant
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- On-Screen Display (OSD) for system configuration settings and information display
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Audio Return Channel (ARC) – audio from an HDMI source can be sent to an audio/video receiver by connecting an HDMI cable to the ARC port
- HDMI audio can be extracted to stereo audio and digital audio (optical/coaxial) outputs
- Rack-mountable (1U)

Setup › VS482B



Specifications

	VS482B
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m (4096 x 2160 @ 60Hz, 4:4:4)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m (4096 x 2160 @ 60Hz, 4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Audio Return Channel, Deep Color); HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Max. Distance	Up to 5 m (input / output)
Audio	
Input	4 x HDMI Type A Female (Black)
Output	Analog: 2 x RCA (Red / White); Digital: 2 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange)
Control	
RS-232	Function: Port switching & F/W upgrade Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black); 1 x IR Receiver
EDID Settings	EDID Mode: Default (4K @ 60Hz) / Port-1 / Remix
Power	
Power	1 x DC Jack
Power Consumption	DC 5V: 3.29W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.16 kg (4.76 lb)
Dimensions (L x W x H)	43.72 x 15.88 x 4.40 cm (17.21 x 6.25 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x Power Adapter; 1x IR Remote Control Unit; 1x Mounting Kit

Optional Accessories

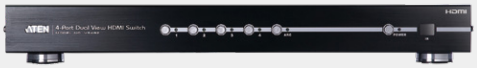
Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5 m)	12-7
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0010G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS482 4-Port HDMI Switch with Dual Output

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control | Dual View | OSD | ARC Audio Return Channel | EDID | Audio Out Coaxial | Audio Out RCA | Auto Switching | Instant Switch | Digital Audio Toslink

Front



Rear



Features

- 4 x 2 HDMI I/O connections
- HDMI (3D, Audio Return Channel, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); up to WUXGA (1920x1200)
- Instant Switching – instant switch via front-panel pushbuttons, IR remote control, or RS-232 commands
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- On-Screen Display (OSD) for system configuration settings and information display
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Audio Return Channel (ARC) – audio from an HDMI source can be sent to an audio/video receiver by connecting an HDMI cable to the ARC port
- HDMI audio can be extracted to stereo audio and digital audio (optical/coaxial) outputs
- Rack-mountable (1U)

Specifications

	VS482
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m @ 1920 x 1080 @ 60Hz (4:4:4)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m @ 1920 x 1080 @ 60Hz (4:4:4)
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Audio Return Channel, Deep Color); HDCP Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Audio	
Input	4 x HDMI Type A Female (Black)
Output	Analog: 2 x RCA (Red / White); Digital: 1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange)
Control	
RS-232	Connector: 1 x DB-9 Female (Black); Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8,; Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	EDID Mode: Default / Port1 / Auto
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 5.74W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.17 kg (4.78 lb)
Dimensions (L x W x H)	43.72 x 15.86 x 4.40 cm (17.21 x 6.24 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control Unit; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0010G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS481A 4-Port HDMI Switch

A/V In HDMI | A/V Out HDMI | RS-232 Control | IR Remote Control

Front



Rear



Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200)
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 commands
- Power-on Detection – switches to the next powered-on source when one source is powered off
- Bi-directional RS-232 serial port for high-end system control

Specifications

	VS481A
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m @ 1920 x 1080 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m @ 1920 x 1080 @ 60Hz (4:4:4)
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 1.87W
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)	20.00 x 8.27 x 2.50 cm (7.87 x 3.26 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	1x HDMI Cable (1.8m / 6ft); 1x IR Remote Control Unit; 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-7
IR Remote Control	2XRT-0101G	13-2

*Cables with different lengths are available; please refer to 12-7.

VS381B 3-Port True 4K HDMI Switch

A/V In HDMI | A/V Out HDMI | HDCP 2.2 | Auto Switching | IR Remote Control



Front



Rear



Features

- Allows up to 3 HDMI input sources to be transmitted to 1 HDMI output display
- Superior video quality – True 4K resolution of 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) up to 5m
- HDR supported (HDR10+, Dolby Vision, HLG)
- HDMI (3D, Deep Color, 4K)
- HDCP 2.2 compliant
- Auto switching mode for auto port selection
- Switching between HDMI input sources via front panel pushbuttons and IR remote control
- Supports IR extension
- Supports 7.1 channel audio output
- Clear LED indication of device status
- Plug-and-play – no software installation required

Specifications

	VS381B
Video Input	
Interfaces	3 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Max 5 m @ 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Max 5 m @ 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K, HDR10+, HLG, Dolby Vision) HDCP 2.2
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
IR	1 x Mini Stereo Jack Female (Black) / Max distance@ 5m
Power	
Connectors	1 x DC Jack
Consumption	DC5V:1.46W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.15 kg (0.33 lb)
Dimensions (L x W x H)	7.16 x 7.90 x 2.55 cm (2.82 x 3.11 x 1 in.)
Carton Lot	20 pcs
Included Accessories	1x USB to DC Power Cord; 1x IR Remote Control; 1x IR Receiver

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5 m)	12-7

*Cables with different lengths are available; please refer to 12-7.

VS261 / VS461 2/4-Port DVI/Audio Switch

Video In DVI | Video Out DVI | Audio RCA | IR Remote Control

Front VS261



VS461

Rear VS261



VS461

Features

- 2 x 1 or 4 x 1 DVI I/O connections
- Fully compliant with DVI-Digital and DVI-Analog
- Superior video quality – up to 1920 x 1200
- HDCP compatible
- Video switching via front-panel pushbuttons or IR remote control
- Power-on Detection – switches to the next powered-on source when one source is powered off
- Audio-enabled

Specifications

	VS261	VS461
Video Input		
Interfaces	2 x DVI-I Female (White)	4 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x DVI-I Female (White)	1 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	5 m	5 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 5 m	Up to 5 m
Audio		
Input	4 x Stereo RCA Jack Female (Red / White)	8 x Stereo RCA Jack Female (Red / White)
Output	2 x Stereo RCA Jack Female (Red / White)	2 x Stereo RCA Jack Female (Red / White)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 1.7W	DC5.3V: 1.8 W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.50 kg (1.1 lb)	0.75 kg (1.65 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	10 pcs
Included Accessories	1x IR Remote Control Unit; 1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
IR Remote Control	2XRT-0101G	13-2

VS0801A 8-Port VGA/Audio Switch with Auto Switching

Video In HDB-15 | Video Out HDB-15 | RS-232 Control | IR Remote Control | Stereo Audio | Auto Switching

Front



Rear



Features

- 8 x 1 VGA/Audio I/O connections
- Superior video quality – up to 2048 x 1536 @ 60Hz
- Video switching via front-panel pushbuttons, IR remote control, RS-232 commands, or port-switching cable (optional)
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- Video DynaSync™ – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- Power-on Detection – switches to the next powered-on source when one source is powered off
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

	VS0801A
Video Input	
Interfaces	8 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Audio	
Input	8 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 1.01W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.10 kg (4.63 lb)
Dimensions (L x W x H)	43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
Port Switching VGA Cable	2L-5202B / 2L-5203B / 2L-5205B	13-2
IR Remote Control	2XRT-0007G	13-2

VS0201 / VS0401 2/4-Port VGA/Audio Switch

A/V In HDB-15 | A/V Out HDB-15 | RS-232 Control | IR Remote Control | Stereo Audio | Auto Switching

(Optional)

Front

VS0201



VS0401

Rear

VS0201



VS0401

Features

- 2 x 1 or 4 x 1 VGA/Audio I/O connections
- Superior video quality – up to 1920 x 1440
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 commands
- Video DynaSync™ – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- Auto Switch Mode – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control

Specifications

	VS0201	VS0401
Video Input		
Interfaces	2 x HDB-15 Male (Blue)	4 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	30 m	30 m
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m
Audio		
Input	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 0.55W	DC5.3V: 0.47W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.45 kg (0.99 lb)	0.66 kg (1.45 lb)
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)	20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-8
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0101G	13-2
Mounting Kit (VS0401)	2X-020G	13-2

VS291 / VS491 2/4-Port VGA Switch

Video In HDB-15 | Video Out HDB-15

Rear



VS291

VS491



Features

- 2 x 1 or 4 x 1 VGA I/O connections
- Superior video quality – up to 1920 x 1440
- Video switching via the topside pushbutton
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

Specifications

	VS291	VS491
Video Input		
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	10 m	10 m
Video		
Max. Data Rate	150 MHz	150 MHz
Max. Pixel Clock	Up to 1920 x 1440	Up to 1920 x 1440
Compliance	Up to 10 m	Up to 10 m
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC9V: 0.82W	DC9V: 0.82W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic / Metal	Plastic / Metal
Weight	0.15 kg (0.33 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.)	12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter	

VS201 2-Port VGA Switch Wall Plate





Features

- 2 x 1 VGA I/O connections
- Superior video quality – up to 1920 x 1440
- Automatic incoming signal selection (Auto)
- Quick and easy switching via slide switch
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

Specifications

	VS201
Video Input	
Interfaces	2 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Distance	30 m
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 0.75W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.20 kg (0.44 lb)
Dimensions (L x W x H)	10.36 x 7.90 x 2.79 cm (4.08 x 3.11 x 1.1 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

Video Splitters

ATEN video splitters not only duplicate a single video source to multiple outputs but also boost the signal so it can be sent over longer distances without degradation. Multiple splitters can be cascaded up to three levels to provide a high number of displays in multiple locations. Models with audio functionality are also available. ATEN video splitters are ideal for public broadcasting, computer stores, classrooms, training facilities, and digital signage applications.



- **Cost Effective Expansion**
  Video splitters easily and economically transmit the signals from a single AV source to multiple output devices so that all the connected monitors display the same content simultaneously. If an application calls for more displays, its installation can be expanded by cascading additional units via port connections on the splitter.

- **High Bandwidth – Crisp Output**
  With ultra-high bandwidth support, images appear crisp, clear, and true on each of the target displays.

- **Outstanding Multimedia Support**
  In addition to high-quality video, the integrated audio component delivers an outstanding AV experience when working with modern multimedia applications.

- **True 4K, HDR**
  Models are available with support for up to True 4K resolutions with HDR that are compatible with mainstream HDR formats, delivering more vivid and vibrant video for all your applications.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.



Specifications at a Glance

Interface	DisplayPort		HDMI			
Model	VS92DP	VS192 / VS194	VS0108HB	VS182B / VS184B	VS0110HA	VS182A / VS184A / VS0108HA
Inputs to Outputs	1 to 2	1 to 2 / 1 to 4	1 to 8	1 to 2 / 1 to 4	1 to 10	1 to 2 / 1 to 4 / 1 to 8
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)
HDR	N/A	N/A	•	•	N/A	N/A
HDCP	1.3	1.3	2.2	2.2	1.4	VS182A/VS184A: 1.4 VS0108HA: 1.3
Audio	• (DisplayPort)	• (DisplayPort)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
Data Rate	21.6Gbps	21.6Gbps	18Gbps	18Gbps	10.2Gbps	10.2Gbps

Interface	HDMI	DVI		SDI	VGA
Model	VS82H	VS172 / VS174	VS162 / VS164	VS146	VS0116
Inputs to Outputs	1 to 2	1 to 2 / 1 to 4	1 to 2 / 1 to 4	1 to 6	1 to 16
Max. Resolution	4K@60Hz (4:4:4)	2560 x 1600	1920 x 1200	1080p@60Hz	1920 x 1440
HDR	•	N/A	N/A	N/A	N/A
HDCP	2.2	N/A	1.3	N/A	N/A
Audio	• (HDMI)	• (Stereo)	• (Stereo)	N/A	• (Stereo)
Data Rate	18Gbps	13.5Gbps	6.75Gbps	2.97Gbps	250MHz

Interface	VGA				
Model	VS0102 / VS0104	VS132A / VS134A / VS138A	VS92A / VS94A / VS98A	VS82 / VS84	VS132 / VS102
Inputs to Outputs	1 to 2 / 1 to 4	1 to 2 / 1 to 4 / 1 to 8	1 to 2 / 1 to 4 / 1 to 8	1 to 2 / 1 to 4	1 to 2
Max. Resolution	1920 x 1440	2048 x 1536	1920 x 1440	1920 x 1440	1920 x 1440
Audio	• (Stereo)	N/A	N/A	N/A	N/A
Data Rate	450MHz	450MHz	350MHz	250MHz	VS132: 350MHz VS102: 250MHz

VS192 / VS194 2/4-Port 4K DisplayPort Splitter

A/V In DisplayPort | A/V Out DisplayPort | EDID

Front



VS192

VS194

Rear



VS192

VS194

Features

- Connects 1 DisplayPort input to 2/4 DisplayPort outputs
- DisplayPort 1.2a; HDCP 1.3 compatible
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 60Hz
- Supports MST / Extend Mode and SST/ Split Mode
  MST / Extend Mode: Extends a video source across 2/4 displays with a maximum resolution of 4K
  SST / Split Mode: Duplicates a single video source to 2/4 displays with a maximum resolution of 4K on each monitor

Note: The maximum supported video resolution and number of monitors are dependent on the graphics card you are using. Check the specifications of the graphics card to determine its capabilities.

Specifications

	VS192	VS194
Video Input		
Interfaces	1 x DisplayPort Female (Black)	1 x DisplayPort Female (Black)
Max. Distance	4.6m (4096 x 2160 / 3840 x 2160 @ 60Hz) *tested with 2L-7D04DP	4.6m (4096 x 2160 / 3840 x 2160 @ 60Hz) *tested with 2L-7D04DP
Video Output		
Interfaces	2 x DisplayPort Female (Black)	4 x DisplayPort Female (Black)
Max. Distance	4.6m (4096 x 2160 / 3840 x 2160 @ 60Hz) *tested with 2L-7D04DP	4.6m (4096 x 2160 / 3840 x 2160 @ 60Hz) *tested with 2L-7D04DP
Video		
Max. Data Rate	21.6 Gbps (5.4 Gbps per lane)	21.6 Gbps (5.4 Gbps per lane)
Compliance	DP 1.2a; HDCP 1.3	DP 1.2a; HDCP 1.3
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5V: 1.185W	DC5V: 3.36W
Environmental		
Operating Temperature	0 – 40 °C	0 – 40 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.30 kg (0.66 lb)	0.33 kg (0.73 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.)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (2m)	12-8
DisplayPort to VGA Adapter	VC925	10-16
DisplayPort to HDMI Adapter	VC985 / VC986 / VC986B	10-16 / 10-15 / 10-15

*Cables with different lengths are available; please refer to 12-8.

VS0108HB 8-Port True 4K HDMI Splitter

A/V In HDMI | A/V Out HDMI | HDCP 2.2 | RS-232 Control | EDID

Front



Rear



Features

- Connects 1 HDMI Input to 8 HDMI outputs
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 Compatible
- Superior video quality – True 4K resolutions of 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR10+ / Dolby vision / HLG / HDR10
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission from source to sink up to 10 m
- Built-in bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U design)

Specifications

	VS0108HB
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m at 4K @ 60Hz (4:4:4)
Video Output	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m at True 4K @ 60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Port 1 / Default / Auto / Switch
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 11.95W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.18 kg (4.8 lb)
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VS182B / VS184B 2/4-Port True 4K HDMI Splitter

A/V In HDMI | A/V Out HDMI | EDID | HDCP 2.2

Front

VS182B



VS184B

Rear

VS182B



VS184B

Features

- Connects 1 HDMI input to 2/4 HDMI outputs
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 Compatible
- Superior video quality – True 4K resolutions of 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR10+ / HDR10 / Dolby vision / HLG
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission 5 m (True 4K)

Specifications

	VS182B	VS184B
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video Output		
Interfaces	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	5 m at 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video		
Max. Data Rate	18 Gbps (6 Gbps Per Lane)	18 Gpbs (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz	600 MHz
Compliance	HDMI (3D, Deep Color, True 4K); HDCP 2.2 Compatible	HDMI (3D, Deep Color, True 4K); HDCP 2.2 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5V: 4.24W	DC5V: 4.84W
Environmental		
Operating Temperature	0 – 40 °C	0 – 40 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.32 kg (0.7 lb)	0.48 kg (1.06 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.)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter; 1x HDMI Cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5 m)	12-7

*Cables with different lengths are available; please refer to 12-7.

VS0110HA 10-Port 4K HDMI Splitter

A/V In HDMI | A/V Out HDMI | RS-232 Control | EDID

Front



Rear



Features

- Connects 1 HDMI input to 10 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible
- Superior video quality – up to 4K resolutions of 4096 x 2160 @ 60Hz (4:2:0)
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission from source to sink up to 15m
- Built-in bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

	VS0110HA
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m; 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
Video Output	
Interfaces	10 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	10 m; 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default (1080p) / Port 1 / Auto
Connectors	
Power	1 x DC Jack
USB Port	1 x Micro USB (FW upgrade)
Power Consumption	DC5V: 4.34W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.10 kg (4.63 lb)
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H (5 m) / 2L-7D05H-1 (5 m) / 2L-7D10H (10m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VS182A / VS184A / VS0108HA 2/4/8-Port 4K HDMI Splitter

A/V In HDMI | A/V Out HDMI | RS-232 Control (VS0108HA) | EDID (VS0108HA)

Front



VS182A
VS184A
VS0108HA

Rear



VS182A
VS184A
VS0108HA

Features

- Connects 1 HDMI input to 2/4/8 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 1.4/1.3 Compatible
- Superior video quality – up to 4K resolutions of 4096 x 2160 @ 60Hz (4:2:0)
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens (VS0108HA)
- Long distance transmission – up to 15 m (24 AWG)
- Built-in bi-directional RS-232 serial port for high-end system control (VS0108HA)
- Rack-mountable (VS0108HA; 1U)

Specifications

	VS182A	VS184A	VS0108HA
Video Input			
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	3 m @ 3840 x 2160 @30Hz (4:4:4)	3 m @ 3840 x 2160 @30Hz (4:4:4)	3 m @ 3840 x 2160 @30Hz (4:4:4)
Video Output			
Interfaces	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	15 m @ 3840 x 2160 @ 30Hz (4:4:4)	15 m @ 3840 x 2160 @ 30Hz (4:4:4)	15 m @ 3840 x 2160 @ 30Hz (4:4:4)
Video			
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible	HDMI (3D, Deep Color, 4K); HDCP 1.3 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)		
Control			
RS-232	N/A	N/A	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	N/A	N/A	EDID Mode: Default / Port 1 / Auto
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 3.12W	DC5.3V: 6.02W	DC5V: 12.1W
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.31 kg (0.68 lb)	0.47 kg (1.04 lb)	1.74 kg (3.83 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.)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	3 pcs
Included Accessories	1x HDMI Cable (VS182A/VS184A); 1x Power Adapter; 1x Mounting Kit (VS0108HA)		

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D03H (3 m) / 2L-7D15H (15 m)	12-7
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-7.

VS82H 2-Port True 4K HDMI Splitter

A/V In HDMI | A/V Out HDMI | RS-232 Control | EDID



Features

- Connects 1 HDMI input to 2 HDMI outputs
- True 4K video resolution (up to 4096 x 2160 @ 60Hz; 4:4:4); HDR supported
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Supports max. data rate up to 18 Gbps
- Hardware selectable EDID mode for high-quality display and use of the best resolution across different screens
- Quality and durable aluminum metal enclosure
- Supports Dolby TrueHD and DTS-HD Master Audio

Specifications

	VS82H
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	30 cm; 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m; 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, True 4K); HDCP 2.2 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
EDID Settings	EDID Mode: Port 1 / Default
Connectors	
USB Port	Micro-USB to USB cable (50 cm) x 1; Firmware Upgrade & Power Source
Power Consumption	DC 5V:1.35W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal (aluminum)
Weight	0.09 kg (0.21 lb)
Dimensions (L x W x H)	8.80 x 6.00 x 15.00 cm (3.46 x 2.36 x 5.91 in.)
Carton Lot	40 pcs
Included Accessories	1x Micro-USB Cable

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D05H-1 (5 m)	12-7

*Cables with different lengths are available; please refer to 12-7.

VS172 / VS174 2/4-Port DVI Dual Link/Audio Splitter

Video In DVI | Video Out DVI | EDID | Stereo Audio | RS-232 Control

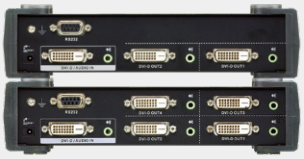
Front



VS172

VS174

Rear



VS172

VS174

Features

- Connects 1 DVI/Audio AV input to 2/4 DVI/Audio AV outputs
- Superior video quality – up to 2560 x 1600 @ 60Hz including 2K-resolution (2048 x 2048 @ 60Hz)
- Cascadable to 3 Levels – provides up to 64 video signals
- System management via RS-232 connections
- RS-232 Chain Control – uses RS-232 commands to control cascaded devices via a DVI cable
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens

Specifications

	VS172	VS174
Video Input		
Interfaces	1 x DVI-D Female (White)	1 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x DVI-D Female (White)	4 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	13.5 Gbps (2.25 Gbps Per Lane)	13.5 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Max. Resolution	Up to 2560 x 1600	Up to 2560 x 1600
Max. Distance	Up to 5 m	Up to 5 m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default / Port 1 / Auto	EDID Mode: Default / Port 1 / Auto
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 3.6W	DC5.3V: 5.91W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.68 kg (1.5 lb)	0.73 kg (1.61 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.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter	

Note: HDCP is not supported

Optional Accessories

Description	Part No. / Spec.	Page No.
Dual Link DVI Cable*	2L-7D03DD (3 m)	12-8
DVI Cable with Audio	2L-7D02V	12-8

*Cables with different lengths are available; please refer to 12-8.

VS162 / VS164 2/4-Port DVI/Audio Splitter

Video In DVI | Video Out DVI | Stereo Audio

Front



VS162

VS164

Rear



VS162

VS164

Features

- Connects 1 DVI/Audio input to 2/4 DVI/Audio outputs
- Superior video quality – up to 1920 x 1200
- Fully compliant with DVI-digital and DVI-analog
- Supports DDWG (Digital Display Working Group) standard for DVI compliant monitors
- Cascadable to 3 Levels - provides up to 64 video signals
- HDCP compliant
- Speaker enabled for audio enjoyment

Specifications

	VS162	VS164
Video Input		
Interfaces	1 x DVI-I Female (White)	1 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x DVI-D Female (White)	4 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 5 m	Up to 5 m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 2.36W	DC5.3V: 3.95W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.62 kg (1.37 lb)	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.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
DVI Cable with Audio	2L-7D02V	12-8

VS146 6-Port 3G-SDI Splitter

Front



Rear





Features

- Connects 1 SDI input to 6 SDI outputs
- Supports an SDI distance of up to 90m (3G-SDI), 150m (HD-SDI), or 300m (SD-SDI) of RG6
- Re-clocking SDI signals for cascading and thus longer transmission
- Automatic detection of 3G/HD/SD-SDI signals
- Passes all ancillary data
- Power connector lock for secure communication

Specifications

	VS146
Video Input	
Interfaces	1 x BNC (Gold)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	6 x BNC (Gold)
Impedance	75 Ω
Video	
Max. Data Rate	2.97 Gbps
Supported Resolutions	NTSC@59.96 Hz, PAL@50 Hz 720p@50/59.94/60 Hz 1080i@50/59.94/60 Hz 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90 m (3G-SDI); 150 m (HD-SDI); 300 m (SD-SDI)
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 3.09W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	20 – 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.32 kg (0.7 lb)
Dimensions (L x W x H)	10.80 x 13.90 x 2.80 cm (4.25 x 5.47 x 1.1 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

VS0116 16-Port VGA/Audio Splitter (250MHz)

Video In HDB-15 | Video Out HDB-15 | Stereo Audio

Front



Rear



Features

- Connects 1 VGA/Audio input to 16 VGA/Audio outputs
- Superior video quality – up to 1920 x 1440
- Supports up to 250MHz bandwidth
- Cascadable to 3 levels - provides up to thousands of video signals
- Long distance transmission - up to 65m
- Rack-mountable (1U design)

Specifications

	VS0116
Video Input	
Interfaces	1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	16 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	250 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Audio	
Input	1 x Mini Stereo Jack Female (Green)
Output	16 x Mini Stereo Jack Female (Green)
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 3.07W
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 15.81 x 4.40 cm (17.21 x 6.22 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x VGA/Audio Cable; 1x Power Adapter; 1x Rack Mount Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-8
VGA EDID Emulator	2A-130G	10-20

VS0102 / VS0104 2/4-Port VGA/Audio Splitter (450MHz)

Video In HDB-15 | Video Out HDB-15 | EDID | Stereo Audio | RS-232 Control

Front



VS0102

VS0104

Rear



VS0102

VS0104

Features

- Connects 1 VGA/Audio input to 2/4 VGA/Audio outputs
- Superior video quality – up to 1920 x 1440 @ 60Hz
- Supports up to 450MHz bandwidth for high performance video
- System management via RS-232 connections
- RS-232 Chain Control – uses RS-232 commands to control cascaded devices via VGA connections
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens

Specifications

	VS0102	VS0104
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	450 MHz	450 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Control		
RS-232	1 x DB-9 Female (Black)	
EDID Settings	EDID Mode: Default / Port 1 / Auto	
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 0.74W	DC5.3V: 1.13W
Environmental		
Operating Temperature	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.46 kg (1.01 lb)	0.68 kg (1.5 lb)
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)	20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)
Carton Lot	10 pcs	10 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-8
VGA EDID Emulator	2A-130G	10-20

VS132A / VS134A / VS138A 2/4/8-Port VGA Splitter (450MHz)

Video In HDB-15 | Video Out HDB-15

Front



Rear



Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Superior video quality – up to 2048 x 1536
- Supports up to 450MHz bandwidth for high-performance video
- Cascadable to 3 levels – provides up to 512 video signals
- Built-in 1.5 GHz amplifier – maintains video system with excellent fidelity

Specifications

	VS132A	VS134A	VS138A
Video Input			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
Video Output			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Video			
Max. Bandwidth	450 MHz	450 MHz	450 MHz
Max. Resolution	Up to 2048 x 1536	Up to 2048 x 1536	Up to 2048 x 1536
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC5V: 0.62W	DC5V: 0.9W	DC5V: 1.99W
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60°C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.42 kg (0.93 lb)	0.61 kg (1.34 lb)	0.69 kg (1.52 lb)
Dimensions (L x W x H)	13.00 x 7.51 x 4.40 cm (5.12 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	20 pcs
Included Accessories	1x Power Adapter		

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-20

VS92DP 2-Port True 4K DisplayPort MST Hub

A/V In DisplayPort | A/V Out DisplayPort | Bus-Powered



Features

- Supports Single Stream Transport (SST) and Multi-Stream Transport (MST) Mode
- DisplayPort 1.2; HDCP 1.3 compliant
- Supports Dolby TrueHD and DTS-HD Master 7.1 Audio channel
- Quality and durable aluminum metal enclosure

Specifications

	VS92DP
Video Input	
Interfaces	1 x DisplayPort Male (Black)
Max. Distance	15cm
Video Output	
Interfaces	2 x DisplayPort Female (Black)
Max. Distance	Max 3m at 3840 x 2160 @ 60Hz (4:4:4) - Single Output Max 3m at 3840 x 2160 @ 30Hz (4:4:4) - Dual Output (MST/SST mode)
Video	
Max. Data Rate	21.6 Gbps (5.4 Gbps Per Lane)
Compliance	DisplayPort 1.2; HDCP 1.3
Max. Resolution	Up to 3840 x 2160 @ 60Hz (4:4:4, 8 bits)
Connectors	
USB Port	USB Micro-B x 1 (Firmware upgrade & power source)
Power Consumption	DC5V: 2W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.09 kg
Dimensions (L x W x H)	8.8 x 6.0 x 15.00 cm
Carton Lot	40 pcs
Included Accessories	1 x USB Type-A to USB Micro-B Cable

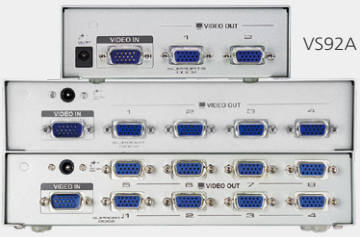
Optional Accessories

Description	Part No. / Spec.	Page No.
DisplayPort Cable	2L-7D04DP (4.6m)	12-8

VS92A / VS94A / VS98A 2/4/8-Port VGA Splitter (350MHz)

Video In HDB-15 | Video Out HDB-15

Rear





Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Superior video quality – up to 1920 x 1440@60Hz
- Supports VGA, XGA, SVGA, UXGA, WUXGA and Multisync monitors
- Supports 350 MHz bandwidth
- Cascadable to 3 levels – provides up to 8/64/512 video signals

Specifications

	VS92A	VS94A	VS98A
Video Input			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
Video Output			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Video			
Max. Bandwidth	350 MHz	350 MHz	350 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC9V: 1.15W	DC9V: 3.28W	DC9V: 5W
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60°C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.42 kg (0.93 lb)	0.61 kg (1.34 lb)	0.69 kg (1.52 lb)
Dimensions (L x W x H)	13.00 x 7.51 x 4.40 cm (5.12 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	20 pcs
Included Accessories	1x Power Adapter		

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-20

VS82 / VS84 2/4-Port VGA Splitter Wall Plate (Plastic) (250MHz)

Video In HDB-15 | Video Out HDB-15



Features

- Connects 1 VGA input to 2/4 VGA outputs
- Superior video quality – up to 1920 x 1440
- Supports 250MHz bandwidth
- Cascadable to 3 levels - provides up to 8/64 video signals
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

Specifications

	VS82	VS84
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	250 MHz	250 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC9V: 1.02W	DC9V: 1.93W
Environmental		
Operating Temperature	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.14 kg (0.31 lb)	0.15 kg (0.33 lb)
Dimensions (L x W x H)	8.76 x 11.46 x 3.33 cm (3.45 x 4.51 x 1.31 in.)	8.84 x 11.88 x 3.33 cm (3.48 x 4.68 x 1.31 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter; 1x VGA Cable (1.8 m) (Optional)	

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-20

VS132 / VS102 2-Port VGA Splitter Wall Plate (350MHz / 250MHz)

Video In HDB-15 | Video Out HDB-15



Features

- Connects 1 VGA input to 2 VGA outputs
- Superior video quality – up to 1920 x 1440
- Supports 350MHz (VS132) / 250MHz (VS102) bandwidth
- Cascadable to 3 levels – provides up to 8 video signals
- Long distance transmission – up to 65 m

Specifications

	VS132	VS102
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x HDB-15 Female (Blue)	2 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	350 MHz	250 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 65 m	Up to 65 m
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC: 0.42W	DC9V: 1.22W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.19 kg (0.42 lb)	0.19 kg (0.42 lb)
Dimensions (L x W x H)	10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.)	10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-20

Video Extenders, Video Boosters

ATEN video extender solutions offer a full range of options that allow you to extend the distance between the source devices and displays in your video installations by up to 300 m to 20 km. They are ideal for all applications in which remote video displays are required, allowing you to place your computers or source devices in a secure and safe environment. ATEN video extender solutions are available in all popular interfaces and with a variety of innovative features and exclusive technologies.



- **Networked AV**
  ATEN's Video over IP solution delivers visually lossless 1080p / 4K AV signals with low latency over long distance via a standard Gigabit network. It is designed to address the challenges that system integrators encounter when implementing AV over IP solutions and provides an effective, easy-to-use, and economical digital signage solution.

- **Dante™Audio Networking**
  ATEN's Dante-enabled products capitalize on Dante™ – The most popular audio networking solution created by Audinate – to deliver uncompressed, close-to-zero latency digital audio across your standard IP network. This solution is highly scalable from simple pairings to large networks with hundreds of audio channels.

- **HDBaseT™ Extenders**
  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.

  As a contributor member of the HDBaseT Alliance, ATEN, with four decades of IT management and control experience, helps the Alliance to accelerate the integration of AV / IT technologies. In addition, ATEN utilizes the full capabilities of HDBaseT technology to develop a complete HDBaseT lineup – from the VE1843 transceiver, which features the latest HDBaseT spec 3.0 to transmit uncompressed True 4K HDMI with multiple control signals up to 100 m, to a wide range of modular matrix switches, extenders, and splitters – to fulfill Pro AV demands in various scenarios.



- **Wall Plates**
  Wall plate extenders manage and deliver signals while concealing cables and keeping other equipment out of sight. ATEN's range of wall plate extension solutions deliver HDMI / DVI / VGA and audio signals via HDBaseT / Cat5e / 6 / ATEN 2L-2910 up to 4K @ 100 m (HDBaseT Class A), 4K @ 40 m (HDBaseT Class B), and 1080p@40 m, and are designed to meet US, EU, and MK standards.

- **Fiber Optic / AOC**
  ATEN offers 4K HDMI optical extender solutions that transmit 4K HDMI up to 10 km and 1080p up to 20 km, as well as a True 4K HDMI Active Optical Cable that is EMI-resistant and fully compliant with HDCP 2.2 standards, meeting HDMI specifications including 3D, deep color, and data rates up to 18 Gbps.

- **Wireless**
  Convenient location flexibility and line-of-sight 1080p wireless transmission up to 30 m, with uncompressed FHD video quality, zero latency and high hacker protection.

- **Cat 5 / Cat 6 Extenders**
  ATEN provides a wide range of long-distance extension solutions utilizing equalizer technology that connect via Cat 5e / 6 / 6a cables, including HDMI, HDMI / USB, HDMI / IR, DVI, Dual Link DVI with Audio, VGA, VGA with Audio, and VGA / Audio / RS-232 models.

- **Boosters**
  ATEN Boosters amplify and transmit signals to increase distances in your AV installation. Models that support True 4K HDMI up to 10m / 1080P up to 20 m and 1280x1024 VGA up to 70 m are available.

Specifications at a Glance

Networked AV

Connection	Video over IP					
Video Interface	HDMI					
Model	VE8952T	VE8952R	VE8950T	VE8950R	VE8900T	VE8900R
Inputs to Outputs	Multiple to Multiple		Multiple to Multiple		Multiple to Multiple	
Max. Resolution / Distance	4K@100m	4K@100m	4K@100m	4K@100m	1080p@100m	1080p@100m
HDCP	1.4	1.4	1.4	1.4	1.4	1.4
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI / Stereo)
RS-232 Channel	•	•	•	•	•	•
IR Channel	•	•	•	•	•	•
USB Channel	•	•	•	•	•	•
Scaler	N/A	•	N/A	•	N/A	•
PoE	•	•	N/A	N/A	N/A	N/A

Dante™ Audio

Connection	Audio over IP
Model	VE66DTH
Audio Interface	Mic/Line in, Line Out, HDMI In, HDMI Out
Inputs to Outputs	6 to 6 (Line/Mic In to Line Out) 2 to 2 (HDMI Stereo In to Stereo Out)
Distance	100m
Phantom Power	48V
Pre-Amp	•
Video	HDMI In, HDMI Out
Video Max. Resolution & HDCP	True 4K, HDCP 2.2

PoH / PoE Power Injector

Connection	HDBaseT™ / over IP
Model	VE44PB
Interface	HDBaseT / over IP
Inputs to Outputs	Input: 4 x RJ-45 (w/o PoE) Ouput: 4 x RJ-45 (w/ PoE)
Distance	80% of original distance

HDBaseT™

Connection	HDBaseT™ 3.0	HDBaseT™ (Class A)*						
Video Interface	HDMI	DisplayPort & HDMI & VGA	HDMI	HDMI & VGA	HDMI	HDMI	HDMI	HDMI
Model	VE1843	VE3912T	VE816R	VE2812AT	VE2812R	VE814A	VE813A	VE811
Inputs to Outputs	1 to 1	3 Inputs, 1 Local Output	1 Output	2 Inputs	1 output	1 to 3	1 to 1	1 to 1
Max. Resolution / Distance	True 4K @100m	4K@100m, 1080p@100m; 1920 x1200@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m; 1920 x1200@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m
HDR	•	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HDCP	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Long Reach Mode**	N/A	• (Active)	• (Passive)	• (Active)	• (Active)	• (Active)	• (Passive)	• (Active)
Audio	• (HDMI / Stereo)	• (HDMI / Stereo / DisplayPort)	• (HDMI)	• (HDMI / Stereo)	• (HDMI / Stereo / Coaxial)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Channel	•	•	•	•	•	•	N/A	N/A
IR Channel	•	•	•	•	•	•	N/A	N/A
USB Channel	•	N/A	N/A	N/A	N/A	N/A	• (USB2.0)	N/A
Ethernet Channel	•	N/A	N/A	N/A	N/A	•	N/A	N/A
PoH	N/A	• (PD)	N/A	• (PD)	N/A	N/A	N/A	N/A
Scaler	N/A	N/A	•	N/A	N/A	N/A	N/A	N/A

Connection	HDBaseT™ (Class A)*		HDBaseT™ (Class B)*				
Video Interface	HDMI	HDMI	HDMI	HDMI	HDMI	DisplayPort	DVI
Model	VE1812	VE812	VE1830	VE805R	VE801 / VE802	VE901	VE601
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 output	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	True 4K@35m; 1080p@70m	1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	1920 x 1200@40m; 1080p@70m
HDR	N/A	N/A	•	N/A	N/A	N/A	N/A
HDCP	2.2	2.2	2.2	1.4	2.2	1.4	1.4
Long Reach Mode**	• (Active)	• (Passive)	N/A	N/A	N/A	N/A	N/A
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (DisplayPort)	N/A
RS-232 Channel	•	N/A	•	•	• (VE802)	N/A	N/A
IR Channel	•	N/A	N/A	•	• (VE802)	N/A	N/A
USB Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethernet Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PoH	PSE: VE1812T PD: VE1812R	N/A	POC	N/A	PSE: VE802T PD: VE802R	N/A	N/A
Scaler	N/A	N/A	N/A	•	N/A	N/A	N/A

Wall Plates

Connection	HDBaseT™ (Class A)*		HDBaseT™ (Class B)*		HDBaseT™ (Class B)*	
Video Interface	HDMI		HDMI		DisplayPort	
Type	EU / MK	US	MK / EU	US	MK / EU	US
Model	VE2812AEUT	VE2812AUST	VE1801AEUT	VE1801AUST	VE1901AEUT	VE1901AUST
Inputs to Outputs	2 inputs	2 inputs	1input	1 input	1input	1 input
Max. Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m
HDCP	2.2	2.2	2.2	2.2	2.2	2.2
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI)	• (HDMI)	• (DisplayPort)	• (DisplayPort)
Long Reach Mode**	• (Active)	• (Active)	N/A	N/A	N/A	N/A
RS-232 Channel	•	•	•	•	•	•
IR Channel	•	•	N/A	N/A	N/A	N/A
PoH	• (PD)	• (PD)	• (PD)	• (PD)	• (PD)	• (PD)

Connection	Cat 5 / Cat 6					
Video Interface	HDMI	HDMI	DVI	DVI	VGA	VGA
Type	MK / EU	US	MK / EU	US	MK / EU	US
Model	VE807	VE806	VE607	VE606	VE157	VE156
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	1080p@40m; 1080i@60m	1080p@40m; 1080i@60m	1920 x 1200@40m; 1280 x 1024@60m	1920 x 1200@40m; 1280 x 1024@60m	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1280 x 1024@150m
HDCP	1.4	1.4	1.4	1.4	N/A	N/A
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (Stereo)	• (Stereo)	• (Stereo)	• (Stereo)
RS-232 Channel	N/A	N/A	N/A	N/A	N/A	N/A
IR Channel	N/A	N/A	N/A	N/A	N/A	N/A

Wireless

Connection	Wireless			
Video Interface	HDMI	HDMI	HDMI & Component	HDMI
Model	VE819	VE849	VE829	VE809
Inputs to Outputs	1 to 1	2 to 5	5 to 2	2 to 2
Max. Resolution / Distance	1080p@10m	1080p@30m	1080p@30m	1080p@30m
HDR	N/A	N/A	N/A	N/A
HDCP	1.4	1.4	1.4	1.4
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Channel	N/A	N/A	N/A	N/A
IR Channel	• (Control)	• (Control)	• (Control)	• (Control)
USB Channel	N/A	N/A	• (HID)	N/A

Fiber Optic / AOC

Connection	Fiber Optic			AOC	
Video Interface	HDMI	HDMI	HDMI	HDMI	
Model	VE883	VE882	VE892	VE781010 / VE781020 / VE781030	VE7831A / VE7832A / VE7833A / VE7834A / VE7835A
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	VE883K1: 4K@300m VE883K2: 4K@10km	1080p@600m	1080p@20km	True 4K @10m / @20m / @30m	True 4K @10m / @20m / @30m / @60m / @100m
HDR	N/A	N/A	N/A	•	•
HDCP	2.2	1.4	1.4	2.2	2.2
Audio	• (HDMI / Stereo)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Channel	•	•	•	N/A	N/A
IR Channel	•	•	•	N/A	N/A
USB Channel	• (USB2.0)	N/A	N/A	N/A	N/A
Ethernet Channel	•	N/A	N/A	N/A	N/A

Cat5 / Cat6 Extenders

Connection	Cat 5 / Cat 6					
Video Interface	HDMI			DVI		
Model	VE800A	VE803	VE810	VE602	VE600A	VE066
Inputs to Outputs	1 to 1			1 to 1		
Max. Resolution / Distance	1080p@40m; 1080i@60m			Dual Link: 2560 x 1600@40m Single Link: 1920 x 1200@40m; 1280 x 1024@60m	1080p@40m; 1080i@60m	1080p x 1200@15m
Audio	• (HDMI)			• (Stereo)	• (Stereo)	N/A
RS-232 Channel	N/A			N/A	N/A	N/A
IR Channel	N/A	N/A	•	N/A	N/A	N/A
USB Channel	N/A	•	N/A	N/A	N/A	N/A

Connection	Cat 5 / Cat 6				
Video Interface	VGA				
Model	VE022	VE150A	VE170	VE170Q	VE200
Inputs to Outputs	1 to 1				1 to 2
Max. Resolution / Distance	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1024 x 768@300m	1920 x 1200@150m; 1280 x 1024@300m	1920 x 1200@30m; 1280 x 1024@200m
Audio	•	N/A	•	N/A	•
RS-232 Channel	N/A	N/A	N/A	N/A	•
IR Channel	N/A	N/A	N/A	N/A	N/A
USB Channel	N/A	N/A	N/A	N/A	N/A

Boosters

Video Interface	DisplayPort	HDMI	VGA
Model	VB905	VB800	VB100
Inputs to Outputs	1 t o 1	1 to 1	1 to 1
Max. Resolution / Distance	4K@60Hz (4:4:4) / 10m	4K@60Hz (4:4:4) / 10m 1080p@60Hz / 20m	1920 x 1200@30m 1280 x 1024@70m
HDCP	2.2	2.2	N/A
HDR	•	•	N/A

* Ensure high quality maximum distance video transmission with ATEN HDBaseT Cat6, 2L-2910.

** Models marked Active provide Long Reach Mode support which can be activated via a switch on the unit. Models marked Passive provide automatic Long Reach Mode support when activated by another device.

Networked AV



Why ATEN's Video over IP Solution?

Deliver visually lossless 4K / 1080p AV signals with low latency over long distances via a standard Gigabit network. ATEN's Video over IP solutions are designed to address the implementation challenges that system integrators encounter and to provide an effective, easy-to-use, and economical digital signage solution.

Limitless Flexibility and Scalability

From a simple point-to-point setup, to hundreds of endpoints, it offers flexibility, scalability and multi-functionality in extender, splitter, matrix switch, and video wall applications.

No Complicated IP Setup

Allows you to effortlessly switch input sources via top panel pushbuttons / ID display and offers simple configuration that requires no extensive IT experience.

Flexible Control with Mobile App

Instantly preview, monitor, and switch video sources via any mobile device to streamline your operations on the go.

Go Further for Less with Daisy Chaining

Easily expand your AV network coverage without cable clutter or extra network switches while also lowering per-port costs.

No Additional Server PCs or Software Required

Effortlessly manage your AV over IP system by logging in to any receiver or transmitter from the web GUI.

Flexible Control, Convenient Integration

Facilitate deployment with PoE models that require no additional power cabling and pre-configured ATEN Gigabit network switches.

Audio over IP

Dante™ Audio Networking

ATEN's Dante-enabled products capitalize on Dante™ – the most popular audio networking solution created by Audinate – to deliver uncompressed, close-to-zero latency digital audio across your standard IP network. This solution is highly scalable from simple pairings to large networks with hundreds of audio channels.

VE66DTH 6 x 6 Dante Audio Interface with HDMI

A/V Out HDMI | A/V In HDMI | HDCP 2.2 | Over IP | Phantom Power | AES67



Front



Rear

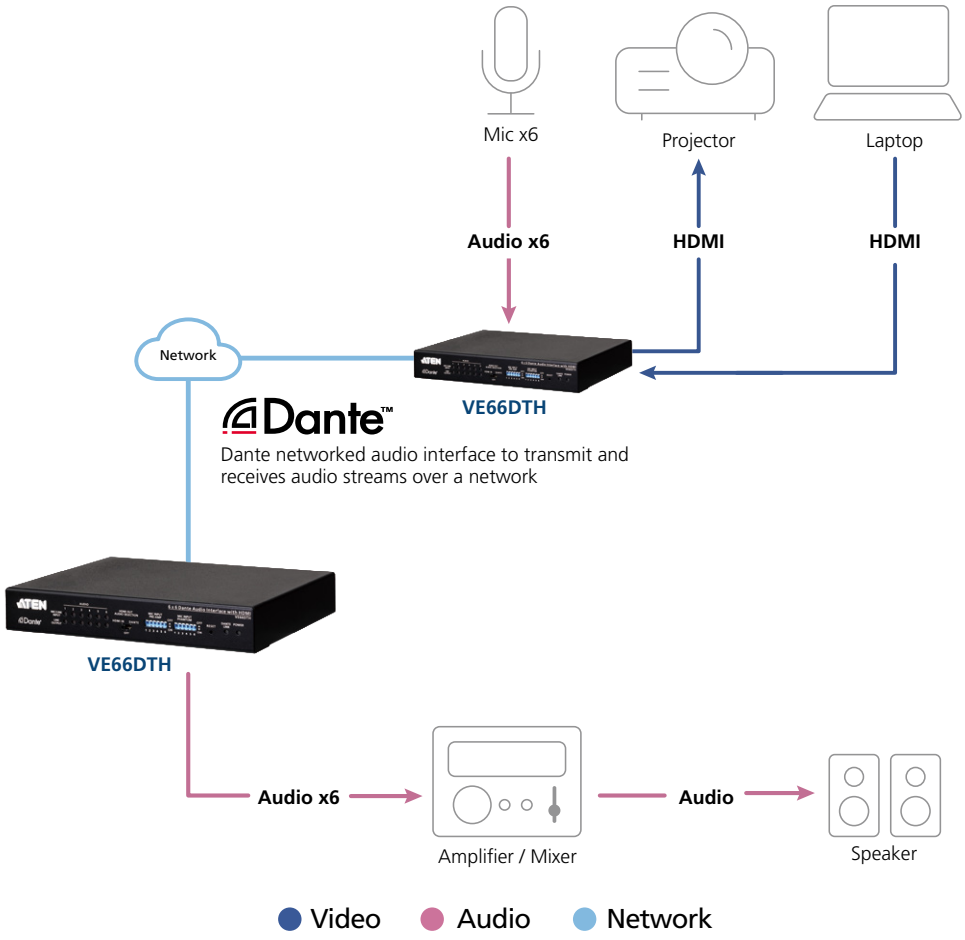


Features

- Features Dante™ networked audio interface – a complete audio networking solution that distributes uncompressed, multi-channel audio transmission via standard Ethernet networks, with near-zero latency and perfect synchronization
- Integrates up to 6-channel balanced mono audio Line/Mic input signals onto a Dante-enabled audio system and supports both dynamic and condenser microphones
- Provides 48V Phantom power supply to condenser microphones
- Delivers up to 6-channel Line outputs from the Dante network to the audio system
- AES67 support
- Supports HDMI input with HDCP 2.2 compliant –the HDMI input can de-embed HDMI stereo audio to the Dante network
- Supports HDMI local output –the VE66DTH can embed the Dante audio into HDMI output
- Supports PoE – power can be supplied by a compatible PSE device* through Ethernet cable

Note: *The VE66DTH is compatible with ATEN PoH/PoE injector VE44PB, and ATEN PoE network switch ES0152P. For more details, refer to page 8-14 and ATEN KVM Product Catalog (page 3-34) respectively.

Setup > VE66DTH



Specifications

	VE66DTH
Audio Inputs	
Interfaces	Line/Mic Input: 3 x 3.5 mm captive screw connector, 5 pole; Analog mono, balanced Impedance: >6.8k ohms unbalanced; >13.6k ohms balanced Maximum level: 0dBV (1Vrms) Mic Pre-amp: +40 dB, balanced Phantom Power: +48V,10mA HDMI Input: HDMI Stereo Audio
Audio Outputs	
Interfaces	Line Output: 3 x 3.5 mm captive screw connector, 5 pole; Analog mono, balanced Impedance: 50 ohms unbalanced, 100 ohms balanced Maximum level: 0dBV (1Vrms) HDMI Output: HDMI Stereo Audio
Audio	
Format	Uncompressed, 24-bit, selectable at 44.1, 48, 88.2, or 96 kHz Latency: Deterministic, based on user selection: 1.0 ms (default) Frequency response: 20Hz~20KHz, +/- 0.3dB THD + Noise: < -65dB (0.1%) (1KHz,1Vrms @ 0dBV) S/N: > 80dB (1KHz,1Vrms @ 0dBV) Cross Talk: < -50dB (15KHz,1Vrms @ 0dBV)
Input	8 audio channels (6 x Analog Input & 1 x HDMI Stereo Audio)
Output	8 audio channels (6 x Analog output & 1 x HDMI Stereo Audio Embedded from HDMI/Dante)
Video Input	
Interfaces	1 x HDMI Type A female (Black)
Impedance	100 Ω
Max. Distance	1.8m
Video Output	
Interfaces	1 x HDMI Type A female (Black)
Impedance	100 Ω
Video	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Compliance	HDMI (3D, Deep Color, 4K); 4K HDR; HDCP 2.2 Compatible
Control	
Ethernet	1 x RJ-45 Female (Silver) through Dante
Switches	
Video Output Port Selection	1 x Slide Switch - HDMI Output Audio Selection (From HDMI in / Dante / Off)
Selection	6 x Slide Switch - Mic Input Pre-Amp ON/OFF
Phantom power	6 x Slide Switch - Mic Input Phantom Power ON/OFF
Reset	1 x pushbutton
Connectors	
Power	1 x DC Jack (Black) or 1 x RJ-45 Female (Silver) PoE
Unit To Unit	1 x RJ-45 Female
Power Consumption	DC5V:8.9W; PoE:11.1W
Environmental	
Operating Temperature	0 – 40°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)	17.42 x 15.49 x 2.88cm (6.86 x 6.10 x 1.13 in.)
Carton Lot	5 pcs
Included Accessories	6 x 5-Pole Terminal Blocks; 4 x Foot Pads; 1 x Mounting Kit; 1 x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2m) / 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available, please refer to 12-7.

VE8952T / VE8952R 4K HDMI over IP Transmitter / Receiver with PoE (4K@100 m)
VE8950T / VE8950R 4K HDMI over IP Transmitter / Receiver (4K@100 m)
VE8900T / VE8900R HDMI over IP Transmitter / Receiver (1080p@100 m)

A/V In/Out, HDMI | RS-232 Channel | IR Channel | over IP | Stereo Audio | Video Wall | PoE (VE8952) | 4K (VE8950 / VE8952) | HDMI



Front (VE8900/VE8950)



Rear (VE8900/VE8950)



Front (VE8952)



Rear (VE8952)



Features

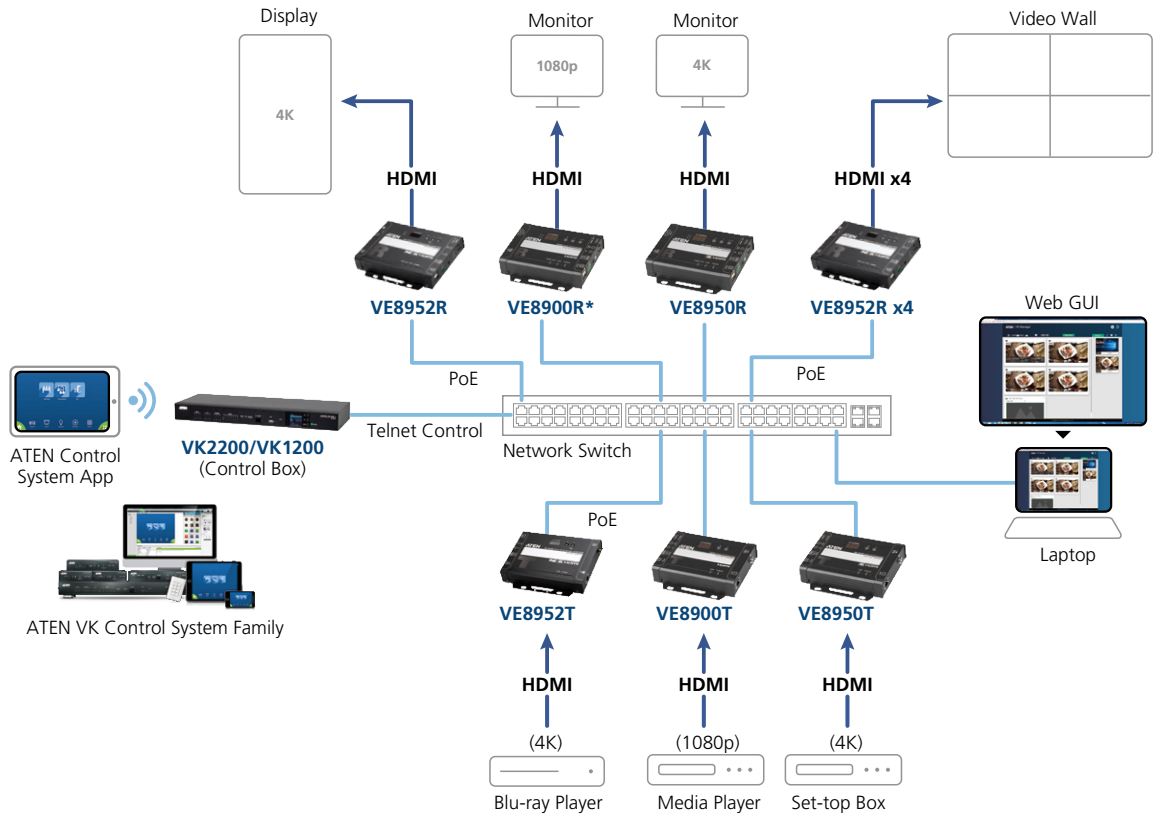
- Delivers visually lossless high-quality video up to 1080p @ 60 Hz (VE8900) / 4K @ 30 Hz 4:4:4 (VE8950, VE8952)
- Ensures stunning quality video using ATEN advanced video lossless compression technology
- Extends AV connections from a simple point-to-point to a multi-point to multi-point setup via LAN without distance limitations
- Offers multi-functionality in extender, splitter, matrix switch, video wall and daisy chain applications
- Mix and match the latest 4K displays and 1080p screens. The built-in scaler automatically scales incoming video signals to match the maximum resolution of the connected display devices[1]
- No additional server PCs, control boxes, or software/drivers are needed
- Connects multiple displays through a single port to utilize every port of the network switch and maximize their value[2]
- Easily switches layout profiles, preview and drag-and-drop video sources via the intuitive web GUI
- For VE8900T/VE8950T/VE8952T – separate audio signal can be embedded into the HDMI stream
- For VE8900R/VE8950R/VE8952R – audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Multiple control methods – the system can be managed via Ethernet or top-panel pushbuttons
- Integrated solution – compatible with ATEN Control System, allowing users to directly operate VE8900/VE8950/VE8952 via CLI Telnet or RS-232 protocol
- Offers a user-friendly scheduling management function for users to pre-plan the display schedule
- Compatible with ATEN network switch, the ES0152 / ES0152P
- For VE8952T/VE8952R - with its built-in PoE (Power over Ethernet) capability, it is able to receive power from ATEN's PoH/PoE PSE products through an Ethernet cable

Note: 1. The VE8952 is compatible with ATEN PoH/PoE injector VE44PB, and ATEN PoE network switch ES0152P. For more details, refer to page 8-14 and ATEN KVM Product Catalog (page 3-34) respectively.
2. VE8952 does not support PoE in daisy chain architecture.

Setup > VE8900 / VE8950 / VE8952

Note: 1. VE8900R supports up to 1080p. Downscaling from 4K to 1080p is not available on this model.
2. Depending on your network architecture, we recommend daisy chaining up to 30 units. Please contact ATEN representatives for more details.

*Users can choose VE8900R if 1080p video source is applied



Specifications

	VE8952R	VE8950R	VE8900R
Video Input			
Interfaces	N/A	N/A	N/A
Impedance	N/A	N/A	N/A
Max. Distance	N/A	N/A	N/A
Video Output			
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	3m	3m	3m
Video			
Max. Data Rate	Average: 150 ~ 500Mbps	Average: 150 ~ 500Mbps	Average: 150 ~ 500Mbps
Compliance	HDMI (4K) HDCP Compatible	HDMI (4K) HDCP Compatible	HDMI HDCP Compatible
Max. Resolutions / Distance	Up to 4K @ 100m (Cat 5e/6, point to point) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 100m (Cat 5e/6, point to point) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 1080p @ 100m (Cat 5e/6, point to point)
Audio			
Input	N/A	N/A	N/A
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)
Connectors			
Unit to Unit	2 x RJ-45 Female	2 x RJ-45 Female	2 x RJ-45 Female
Power	1 x DC Jack (Black) with locking or 1 x RJ-45 (Power over Ethernet, PoE)	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Control			
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
USB	2 x USB Type A Female (Black)	2 x USB Type A Female (Black)	2 x USB Type A Female (Black)
Pushbuttons			
ID Number Selection	3 x Pushbuttons	3 x Pushbuttons	3 x Pushbuttons
Power Consumption	DC5V:5.22W PoE:6.52W	DC5V:4.53W	DC5V:4.28W
Environmental			
Operating Temperature	0 - 40° C	0 - 40° C	0 - 40° C
Storage Temperature	-20 - 60° C	-20 - 60° C	-20 - 60° C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.68 kg (1.5 lb)	0.49 kg (1.08 lb)	0.49 kg (1.08 lb)
Dimensions (L x W x H) with bracket	17.02 x 14.69 x 3.00 cm (6.7 x 5.78 x 1.18 in.)	14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.2 in.)	14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.2 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)	13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.17 in.)	13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.17 in.)
Carton Lot	5 pcs		
Included Accessories	1 x RS-232 Terminal block; 1 x 5V Power Adapter		

Note: Supports 1920x1200@60Hz reduced blanking (ATEN Default EDID only)

Specifications

	VE8952T	VE8950T	VE8900T
Video Input			
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	3m	3m	3m
Video Output			
Interfaces	N/A	N/A	N/A
Impedance	N/A	N/A	N/A
Max. Distance	N/A	N/A	N/A
Video			
Max. Data Rate	Average: 150 ~ 500Mbps	Average: 150 ~ 500Mbps	Average: 150 ~ 500Mbps
Compliance	HDMI (4K); HDCP Compatible	HDMI (4K); HDCP Compatible	HDMI ; HDCP Compatible
Max. Resolutions / Distance	Up to 4K @ 100m (Cat 5e/6, point to point) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 100m (Cat 5e/6, point to point) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 1080p @ 100m (Cat 5e/6, point to point)
Audio			
Input	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)
Output	N/A	N/A	N/A
Connectors			
Unit to Unit	1 x RJ-45 Female	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking or 1 x RJ-45 (Power over Ethernet, PoE)	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Control			
IR	1 x USB Type B Female (White)	1 x USB Type B Female (White)	1 x USB Type B Female (White)
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
USB	2 x USB Type A Female (Black)	2 x USB Type A Female (Black)	2 x USB Type A Female (Black)
Pushbuttons			
ID Number Selection	2 x Pushbuttons	2 x Pushbuttons	2 x Pushbuttons
Power Consumption	DC5V:3.49W PoE:4.36W	DC5V:3.08W	DC5V:3.07W
Environmental			
Operating Temperature	0 - 40° C	0 - 40° C	0 - 40° C
Storage Temperature	-20 - 60° C	-20 - 60° C	-20 - 60° C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.67 kg (1.48 lb)	0.50 kg (1.1 lb)	0.5 kg (1.1 lb)
Dimensions (L x W x H) with bracket	17.02 x 14.69 x 3.00 cm (6.7 x 5.78 x 1.18 in.)	14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.2 in.)	14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.2 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)	13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.17 in.)	13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.17 in.)
Carton Lot	5 pcs		
Included Accessories	1 x RS-232 Terminal Block; 1 x 5V Power Adapter		

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2m) / 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2
Network Switch	ES0152P	KVM 5-37

*Cables with different lengths are available, please refer to 12-7.

VE8900 / VE8950 Control App

Turn your mobile phone into a remote control for VE8900 / VE8950 / VE8952



VE8900 / VE8950 Control App

Android iOS

Download on the App Store

GET IT ON Google Play

Turn your mobile phone into a remote control for VE8900 / VE8950 / VE8952

The VE8900 / 8950 Control App is a free app that supports iOS and Android operating systems.

This mobile app provides intuitive operation with direct access to VE Manager anytime, anywhere to make networked AV even easier than before.

Features

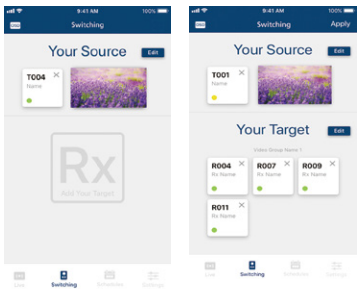
Preview

Review video sources before switching.



Control

Switch a source to multiple receivers instantly.



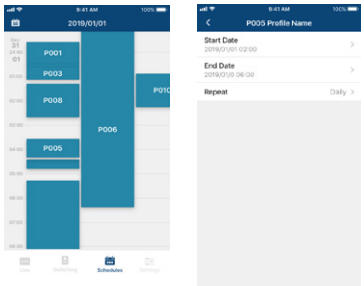
Monitor

Check the status of receivers and all your digital signage content.



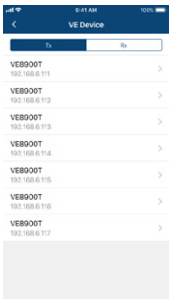
Calendar-based Scheduling

Check and revise the display schedule on the go.



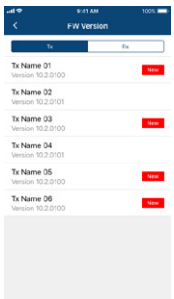
Simple Login

Auto search for devices and tap any transmitter to log in.



Firmware Update Reminder

Keeps you posted about the latest updates.



HDBaseT Extenders



One Cable to Transmit It All

HDBaseT boasts 5Play technology to distribute up to True 4K @ 60Hz 4:4:4 uncompressed AV*, multiple control signals (CEC, RS-232 and IR), USB 2.0, Ethernet and power over a single Cat 6 / 6a cable that reaches 100m, with zero latency.

*Uncompressed True 4K @ 60 Hz 4:4:4 HDMI transmission is supported when using HDBaseT 3.0-compatible devices and Cat 6A cables.

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

Long-Distance Transmission
Delivers uncompressed video & audio using one Cat 6/6a cable up to 100 - 150 m.

Flexible Control
Provides multiple control signals: CEC, RS–232, Ethernet, IR and USB2.0.

Uncompressed UHD and High-Quality Audio
Supports up to uncompressed UHD*, and 4K x 2K, Dolby True HD and DTS HD Master Audio

*Uncompressed True 4K @ 60 Hz 4:4:4 HDMI transmission is supported when using HDBaseT 3.0-compatible devices and Cat 6A U/FTP cables.

Anti-jamming Design
Resists signal interference during high–quality video transmission.

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.

VE1843 True 4K HDMI / USB HDBaseT 3.0 Transceiver

A/V In HDMI | A/V Out HDMI | RS-232 Channel | HDCP 2.3 | Ethernet | USB 2.0 Peripherals | Audio In Stereo | IR Channel



Front



Rear

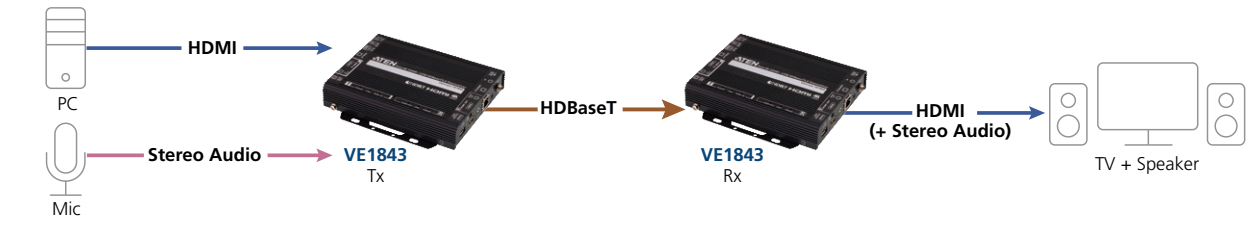


Features

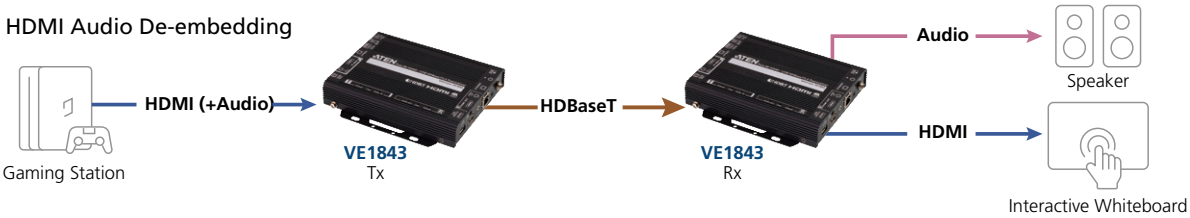
- Extends uncompressed True 4K HDMI signals up to 100 m over a single Cat 6a cable (HDBaseT^3 Certified Cat 6a cable) with zero latency
- Flexible for deployment — can be configured as a transmitter or receiver depending on the AV solution
- Compliant with HDBaseT 3.0 standards — transmits high-quality video, full range IR, bi-directional RS-232, Gigabit Ethernet, independent stereo audio and USB 2.0 signals channel bypass
- HDMI (3D, Deep Color, 4K/60Hz); HDCP 2.3 compliant
- Superior video quality — up to 4096 x 2160 @ 60 Hz (4:4:4); HDR supported
- Supports HDMI audio embedding / de-embedding functions
- Supports HDMI local output
- Compliant with the USB 2.0 standard for a wide range of USB peripherals compatibility
- LED indication of HDBaseT and HDMI signal status for easier recognition
- Fanless fin heat sink enclosure — elevates durability and reliability by preventing overheating, fan malfunctions, and noises
- Supports extremely high refresh rates up to 240 Hz for the connected display
- Firmware upgradable
- Built-in 8KV / 15KV ESD protection
- Plug-and-play
- Rack-mountable

Setup > VE1843

HDMI Audio Embedding



HDMI Audio De-embedding



Video Audio HDBaseT

Specifications

	VE1843
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video	
Max. Data Rate	18Gbps (6Gbps per lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI (3D, Deep Color, 4K/60Hz); 4K HDR HDCP2.3 Compatible Consumer Electronics Control (CEC)* *The CEC signals are only bypassed from the transmitter unit to the receiver unit and do not support local output.
Max. Resolutions	4096 x 2160 @ 60Hz (4:4:4) 3840 x 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distance	Up to 4K x 2K @ 60Hz (4:4:4) @ 100 m (HDBaseT^3 Certified Cat 6a cable / ATEN 2L-2920* Cat 6a cable) *2L-2920 Cat 6a cable will be coming soon. Please contact regional sales for any request.
Audio	
Input	1 x HDMI Type A Female (Black) 1 x Stereo Audio (mini stereo jack female, Green)
Output	1 x HDMI Type A Female (Black) 1 x Stereo Audio (mini stereo jack female, Green)
Connectors	
Unit to Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232 Channel	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits: 1, no parity and flow control
IR Channel	1 x Mini Stereo Jack Female, (Bi-directional, Black) 30K – 56 KHz full range transmission
Ethernet Channel	1 x GbE (RJ-45 Female)
USB Channel	1 x USB 2.0 Type-B Female (White, Host) 1 x USB 2.0 Type-A Female (White, Device) Transmission data bandwidth: Up to 300 Mbps
Switches	
Selection	1 x Slide Switch - Tx (Be a Transmitter) / Rx (Be a Receiver) selection
Mode Selection	1 x Slide Switch - HDMI Audio Embedding or De-embedding ON/OFF selection
Firmware Upgrade	1 x Slide Switch - ON/OFF
Long Reach Mode Switch	1 x Slide Switch - ON/OFF (Reserved)
LEDs	
Power	1 x Tx (Transmitter, Green) 1 x Rx (Receiver ,Green) **Note:** The Tx or Rx LED lights to indicate which role the VE1843 is set to.
Link	1 x Tx (Transmitter, Orange) 1 x Rx (Receiver, Orange)
Video Output	1 x Rx HDMI OUT (Receiver, Orange)
Video Input	1 x Tx HDMI IN (Transmitter, Orange)
Power Consumption	DC12V: 6.45W: 40BTU
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	0.64 kg
Dimensions (L x W x H)	17.15 x 15.09 x 3.00 cm

VE1830 True 4K HDMI HDBaseT-Lite Extender (True 4K@35m) (HDBaseT Class B)

A/V Out HDMI | A/V In HDMI | RS-232 Channel | HDCP 2.2



Front



Rear



Features

- Extends True 4K HDMI signal up to 35m over a single Cat 5e/6
- Superior video quality:
  - Extends True 4K HDMI signals (3840 x 2160 @ 60Hz 4:4:4) up to 35 m
  - Extends Full HD 1080p signals up to 70 m
- Supports HDR10+
- Supports PoC – supplies power from VE1830T to VE1830R
- Features RS-232 serial port for connecting peripherals such as touch screens and barcode scanners
- Plug-and-play
- Compact size for space saving
- Rack-mountable

Specifications

	VE1830R	VE1830T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	5 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	5 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4Gbps per lane)	10.2 Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); 4K HDR HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K); 4K HDR HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Supported Resolutions	4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) @ 35m (Cat5e/6); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) @ 35m (Cat5e/6); 1080P@60m (Cat 5e/6)	4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) @ 35m (Cat5e/6); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) @ 35m (Cat5e/6); 1080P @ 60m (Cat 5e/6)
Max. Resolutions / Distance	Up to True 4K: 3840 x 2160 @ 60Hz (4:4:4) @ 35m (Cat 5e/6); Up to 1080p@70m (Cat6a/ATEN 2L-2910 Cat6)	Up to True 4K: 3840 x 2160 @ 60Hz (4:4:4) @ 35m (Cat 5e/6); Up to 1080p @ 70m (Cat6a/ATEN 2L-2910 Cat6)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x RJ-45 Female (Power over Cable, power supply from VE1830T)	1 x DC Jack (Black) with locking
Control		
RS-232 Channel	**Connector:** 1 x Terminal Block, 3 pole	**Connector:** 1 x Terminal Block, 3 pole
Power Consumption	BTU	DC12V: 24W
Switches		
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.12 kg (0.28 lb)	0.15 kg (0.35 lb)
Dimensions (L x W x H)	11.86 x 7.19 x 1.68 cm (4.67 x 2.83 x 0.66 in.)	11.86 x 7.19 x 1.68 cm (4.67 x 2.83 x 0.66 in.)
Carton Lot	5 pcs	
Included Accessories	2 x RS-232 Terminal Blocks; 1 x Power Adapter; 1 x Mounting Kit	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE44PB 4-Output PoH/PoE Power Injector

PoH IEEE 802.3 af
(PSE)



Front



Rear

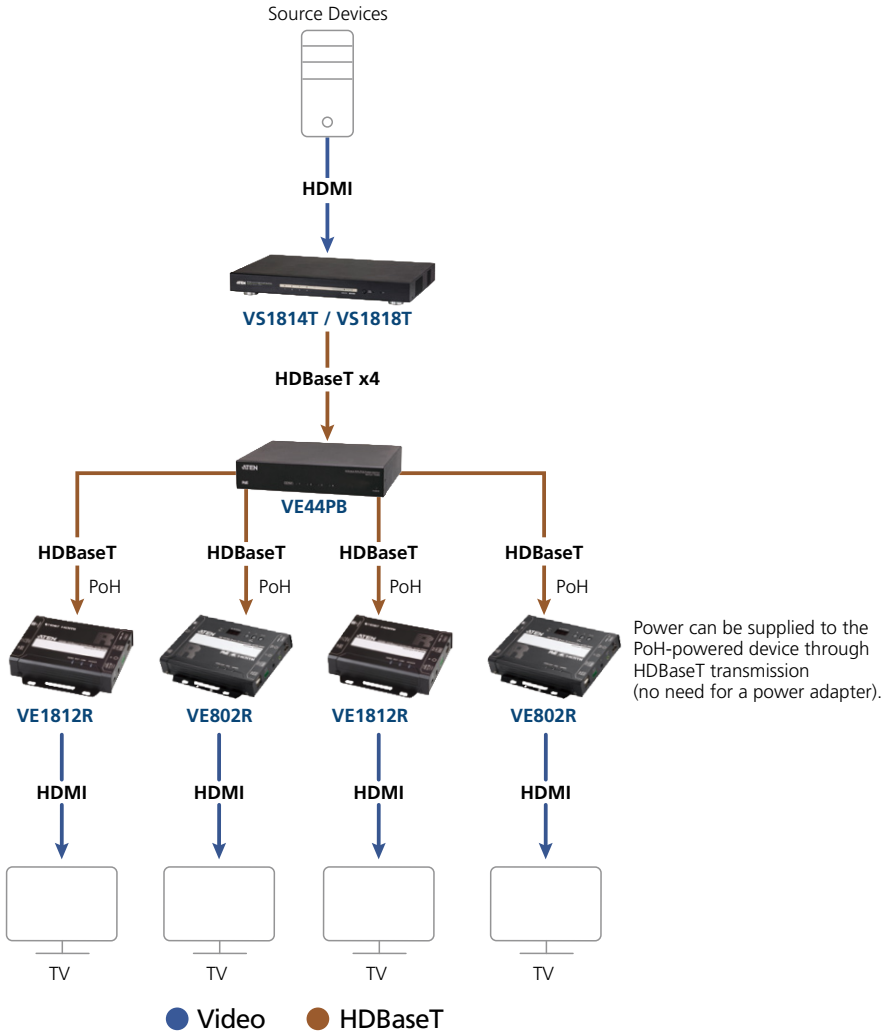


Features

- Supplies power for up to four ATEN Power over HDBaseT (PoH) /Power over Ethernet (PoE) compatible products over Cat 5e/6/6a cables
- HDBaseT Connectivity – extends HDMI connection over a long distance via Cat 6/6a cable
- Offers a data rate up to 10.2Gbps which is compatible with ATEN HDBaseT PoH PD products
  - Compatible ATEN PoH-powered/PoE-powered models: VE2812AT, VE2812AEUT, VE2812AUST, VE1812R, VE802R, VK108US, VK112EU, VK224, VK236, VK248, KE8952, or future ATEN PoH-powered/PoE-powered products which follow IEEE 802.3 af standard
- Built-in 8KV/15KV ESD protection
- Plug-and-play without additional settings
- Rack-mountable
- Supplies up to 15.4W of power per PSE port
- Status LEDs to provide an at-a-glance overview of device status for real-time monitoring and troubleshooting
- Assured signal quality - usage of the power inject does not influence the signal quality of the video, audio, bi-directional RS-232, and Ethernet transmission*

Note: *The transmission distance maybe reduced to 80% of the original distance.

Setup > VE44PB



Specifications

	VE44PB
Video	
Max. Data Rate	10.2Gbps per port (Support HDBaseT PoH PD ready models)
Connectors	
Input	4 x RJ-45 Female
Output	4 x RJ-45 Female (PoE)
Power	1 x 3-Prong AC Socket
Switches	
Power	1 x On/Off Switch
Power	
Maximum Input Power Rating	100-240 VAC; 50-60 Hz
Power Consumption	AC110V:1.2W; AC220V:1.1W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.23 kg (2.71 lb)
Dimensions (L x W x H)	21.50 x 16.12 x 4.18 cm (8.46 x 6.35 x 1.65 in.)
Carton Lot	3 pcs
Included Accessories	1 x Power Cord Cable ; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1

VE816R 4K HDMI HDBaseT Receiver with Scaler (4K@100m) (HDBaseT Class A)

A/V In HDBaseT | A/V Out HDMI | Scaler | Seamless Switch | Video Wall | RS-232 Channel | IR Channel | Long Reach Mode | HDCP 2.2 | FrameSync



Front



Rear



Features

- HDBaseT Long Reach Mode – activated by RS-232 commands, the Long Reach Mode extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmissions using HDBaseT technology
- Scaler – scales videos of different resolutions to their optimal output for display
- Video Wall – features video wall profiles that allows for custom screen layouts via an intuitive web GUI[1]
- Seamless Switch™ – close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions[1]
- Bi-directional RS-232 channel – allows for control using serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – IR transmission is processed one direction at a time[2]
- Cable Quality Tester – examines the category cable quality through signal level detection from HDBaseT Matrix Switches / output board to the VE816R
- FrameSync – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Rack-mountable

Note: 1.The Seamless Switch™ and video wall functions are available when the VE816R is used with ATEN HDBaseT Matrix.
2.Supports full-frequency IR signals from 30 KHz to 56 KHz.

Specifications

	VE816R
Video Input	
Interfaces	1 x RJ-45 Female (Silver)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video	
Max. Data Rate	10.2 Gpbs (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, 4K, Deep Color); HDCP 2.2 Compatible; HDBaseT Compatible
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Silver)
Control	
IR Channel	1 x Mini Stereo Jack Female (Black)
RS-232 Channel	1 x Terminal Block, 3 pole (Green)
Switches	
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	DC5V: 9.09W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.67 kg (1.48 lb)
Dimensions (L x W x H) with bracket	16.80 x 14.69 x 3.00 cm (6.61 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
Carton Lot	5 pcs
Included Accessories	1x IR Transmitter; 1x IR Receiver; 1x Terminal Block; 1x Power Adapter
Optional Accessories	Please refer to 9-70

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE805R HDMI HDBaseT-Lite Receiver with Scaler (1080p@70m) (HDBaseT Class B)

A/V In HDBaseT | A/V Out HDMI | Scaler | Seamless Switch | Video Wall | RS-232 Channel | IR Channel



Front



Rear



Features

- HDBaseT Connectivity – extends an HDBaseT connection over a long distance via single Cat 5e/6/6a or ATEN 2L-2910 Cat6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmissions using HDBaseT technology
- Scaler – features a video scaling function to integrate a video wall seamlessly with various output video formats[1]
- Seamless Switch™ – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions[1]
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI[1]
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device[2]

Note: 1. Seamless Switch™, scaler and video wall functions are only available when the VE805R is used with the VM8514. If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.
2. Bi-directional RS-232 Channel only available when the VE805R is working with VM8514

Specifications

	VE805R
Video Input	
Interfaces	1 x RJ-45 Female (Silver)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video	
Max. Data Rate	6.75 Gpbs (2.25 Gbps per lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible HDBaseT Compatible
Max. Resolutions / Distance	Up to 1080p @ 60m (Cat 5e/6); 70m (Cat 6a)
Control	
RS-232	1 x Captive Screw Connector, 3 Pole
IR	1 x Mini Stereo Jack Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Sliver)
Switches	
Firmware Upgrade	1 x Slide Switch
Power Consumption	DC5V: 8.36W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.81 kg (1.78 lb)
Dimensions (L x W x H)	17.74 x 16.92 x 4.20 cm (6.98 x 6.66 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 1x Terminal Block
Optional Accessories	Please refer to 9-70

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE3912T DisplayPort/HDMI/VGA Switch with HDBaseT Transmitter (4K@100m) (HDBaseT Class A)

A/V In HDMI | A/V In DisplayPort | Video In VGA | Audio In Stereo | Auto Switching | Long Reach Mode | RS-232 Channel | IR Channel | HDCP 2.2 | PoH



Front



Rear



Features

- Extends DisplayPort, HDMI or VGA signals up to 100m over a single Cat 6/6a or ATEN 2L-2910 Cat 6 cable up to 100m
- Supports multiple source inputs (DisplayPort / HDMI / VGA) – easily switching among sources via a pushbutton
- Auto Switch Mode – allows the VE3912T automatically switches to a newly plugged-in source
- HDMI (3D, Deep Color, True 4k) ; HDCP 2.2 compliant
- Superior video quality:
  - HDMI/Displayport: 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
  - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- PoH (Power over HDBaseT) – with its built-in PoH function, it receives power from the HDBaseT output port on the connected device
- Perfect HDBaseT Compatibility – compatible with ATEN HDBaseT receivers, available to deliver crystal video and audio signals to Displayport/HDMI/VGA output port
- HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- EDID Expert™ – selects optimum EDID settings for high-quality display and use of optimum video resolution
- Features RS-232 Serial Communication Switch – Command mode and Bypass mode to meet application requirements
- Built-in 8KV/15KV ESD protection
- Plug-and-play

Specifications

	VE3912T
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue); 1 x DisplayPort Female (Black)
Impedance	HDMI:100 Ω; HDB-15 (VGA):75 Ω; DisplayPort:100 Ω
Max. Distance	HDMI: 5m at 4K@30Hz; HDB-15(VGA): 10m at 1920x1600; DisplayPort: 3m at 4K@30Hz
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	HDMI: 5m at 4K@30Hz; 3m at 4K@60Hz (4:4:4)
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	HDMI Local Output: 4Kx2K @ 60Hz (4:4:4); HDBaseT Output: 4Kx2K @ 60Hz (4:2:0) & 4Kx2K @ 30Hz (4:4:4)
Max. Resolutions / Distance	HDMI/DisplayPort: Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200 @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080 @ 100m (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)
Audio	
Input	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green); 1 x DisplayPort Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking or 1 x RJ-45 Female (PoH)
Control	
RS-232	**Connector: 1** x Terminal Block, 3 pole; Type: DTE Baud Rate: 115200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Switches	
Video Input Port Selection	1 x Pushbutton - HDMI, VGA, DisplayPort and AUTO
Long Reach Mode Switch	1 x Slide Switch - ON/OFF; ON: Up to 150m at 1080p (max.); OFF: Up to 100m at 4K@30Hz (max.)
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	DC5V: 7.02W; PoE: 8.77W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Housing	Metal
Weight	0.65 kg (1.43 lb)
Dimensions (L x W x H) with bracket	17.29 x 14.69 x 3.00 cm (6.81 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
Carton Lot	5 pcs
Included Accessories	1x RS-232 Terminal Block; 1x Power Adapter
Optional	Please refer to 9-70

VE2812AT HDMI & VGA HDBaseT Transmitter with PoH (4K@100m) (HDBaseT Class A)

A/V In HDMI | Video In VGA | Audio In Stereo | Long Reach Mode | RS-232 Channel | IR Channel | HDCP 2.2 | Auto Switching | PoH



Front



Rear



Features

- Extends HDMI or VGA signals, providing superior video quality:
  - HDMI: 4K / 1080p at distance up to 100 m via a Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
  - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI (3D, Deep color, 4K); HDCP compatible
- Supports HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Built-in PoH (Power over HDBaseT) function – the VE2812AT receives power supply from the HDBaseT output port on the connected device
- Supports Auto Switch –allows the VE2812AT to automatically switch to a newly plugged-in source
- Functions as a switch or a converter:
  - A Switch: Connects two sources (HDMI or VGA)
  - A converter: Applies receivers with different interface (DVI, DisplayPort, or HDMI)
- RS-232 Channel Transmission – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Compatible Receivers – VE2812R, VE1812R, VE811R, VE814AR, VE801R, VE802R, VE601R, VE901R, or future ATEN HDBaseT Receivers
- Plug-and-play with no software installation required
- Rack mountable
- Built- in 8KV / 15 KV ESD protection

Specifications

	VE2812AT
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)
Impedance	HDMI: 100Ω; HDB-15 (VGA): 75Ω
Max. Distance	HDMI: 3 m; HDB-15(VGA): 10m
Video	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI: Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080 @ 100m (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)
Audio	
Input	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)
Control	
RS-232	**Connector:** 1 x Terminal Block, 3 pole; Type: DTE Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking or 1 x RJ-45 Female (PoH)
Power Consumption	DC5V:3.14W; PoE: 3.93W
Environmental	
Operating Temperature	0 – 40°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) with bracket	14.32 x 12.30 x 3.00 cm (5.64 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs
Included Accessories	1 x RS-232 Terminal Block; 1 x Power Adapter
Optional Accessories	Please refer to 9-70

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE2812R HDMI HDBaseT Receiver with Audio De-Embedding (4K@100m) (HDBaseT Class A)

A/V Out HDMI | HDCP 2.2 | Long Reach Mode | RS-232 Channel | IR Channel | SPDIF | Audio Out Coaxial



Front



Rear



Features

- Extends HDMI signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality – up to 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- Supports HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Supports both Coaxial S/PDIF and Stereo earphone jack output
- Manually turns on/off HDMI audio output
- Audio EDID Switching – 2ch Stereo, 5.1ch Surround sound, and AUTO
- eatures RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Bi-directional IR signal transmission – IR transmission is processed one direction at a time, ranged from 30 kHz to 56 kHz
- Built- in 8KV / 15 KV ESD protection
- Supports wide screen format
- Plug-and-play
- Rack-mountable

Specifications

	VE2812R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP2.2 Compatible; Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @100m (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)
Audio	
Output	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green) 1 x SPDIF Coaxial Female (Orange)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232	**Connector:** 1 x Terminal Block, 3 pole; Type: DTE Baud Rate: 115200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Power Consumption	DC5V: 4.98W
Switches	
HDMI Mute	1 x Slide Switch - ON/OFF
Audio EDID Selection	1 x Slide Switch - Audio Output Format Selection: 2ch / 5.1ch / AUTO
Selection	1 x Slide Switch - RS-232 Bypass/Command mode
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.46 kg (1.01lb)
Dimensions (L x W x H) with bracket	14.53 x 12.30 x 3.00 cm (5.72 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x RS-232 Terminal Block
Optional Accessories	Please refer to 9-70

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE814A HDMI HDBaseT Extender with Dual Output (4K@100m) (HDBaseT Class A)

Remote Dual Display | HDCP 2.2 | Long Reach Mode | A/V In HDMI | A/V Out HDMI | RS-232 Channel | IR Channel | Ethernet Channel





Features

- HDBaseT Connectivity – Extends HDMI signals to one local and two remote displays up to 100 m over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- ATEN EDID Technology – When both transmitter and receiver sides are connected, VE814A adopts the EDID values of the display connected to the VE814AT for high-quality output
- Bi-directional RS-232 channel transmits signals
- Two IR channels for IR signal transmission
- Allows Ethernet communication with the Ethernet pass-through port
- Rack-mountable
- HDBaseT Long Reach Mode – up to 150 m via a single Cat5e/6 at resolutions up to 1080p

Specifications

	VE814AR	VE814AT
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	2 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3 m	3 m
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	2 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Connectors		
Unit to Uni	1x RJ-45 Female	1x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Control		
RS-232	**Connector:** 1 x Terminal Block, 3 pole Baud Rate: 57600, Data Bits:8, Stop Bits:1, no parity and flow control	**Connector:** 1 x Terminal Block, 3 pole Baud Rate: 57600, Data Bits:8, Stop Bits:1, no parity and flow control
IR	2 x Mini Stereo Jack Female (Black)	2 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female	1 x RJ-45 Female
Switches		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Power Consumption	DC5V:7.87W	DC5V:5.09W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.47 kg (1.04 lb)	0.45 kg (0.99 lb)
Dimensions (L x W x H) with bracket	14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)	14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x IR Transmitter Cable; 1x IR Receiver Cable; 2x RS-232 Terminal Blocks; 2 Power Adapters	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE813A 4K HDMI HDBaseT Extender with ExtremeUSB® (4K@100m) (HDBaseT Class A)

A/V In HDMI | A/V Out HDMI | HDCP 2.2



Front



Rear



R

T

Features

- HDBaseT Connectivity – extends HDMI signals over a long distance via single Cat 5e/6/6a cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- ExtremeUSB® – supports USB 2.0 high speed connections to provide touch panel control and file transfer functionality
- USB 2.0 Support – connects devices such as a keyboard, mouse, flash drive, printer, touch panel, USB 1.1 web camera and other USB devices that require moderate amounts of bandwidth
- Rack-mountable

Specifications

	VE813AR	VE813AT
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 70m (Cat 5e/6) / 100m (cat 6a); 1080p @ 100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Control		
USB Channel	3 x USB Type A Female Transfer Rate: USB 2.0 (Up to 40 Mbps)	1 x USB Type B Female Transfer Rate: USB 2.0 (Up to 40 Mbps)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5V: 5.75W Note: For the VE813AR, power consumption will be 13.25W when all 3 USB connectors are occupied.	DC5V: 5.75W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 - 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.62 kg (1.37 lb)	0.61 kg (1.34 lb)
Dimensions (L x W x H)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x HDMI Cable; 1 USB Cable; 2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE811 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A)

A/V In HDMI | A/V Out HDMI | Long Reach Mode | HDCP 2.2



Features

- HDBaseT Connectivity – extends HDMI signals up to 100 m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- HDMI (3D, Deep Color, 4K)
- HDCP 2.2 compatible
- Built-in 8KV/ 15 KV ESD protection
- Wide screen format
- Plug-and-play
- Rack-mountable

Specifications

	VE811R	VE811T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Firmware Upgrade	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Switches		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Power Consumption	DC5V: 3.84W	DC5V: 3.77W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.17 kg (0.37 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H) with bracket	8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)	8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)
Dimensions (L x W x H) without bracket	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE1812 HDMI HDBaseT Extender with PoH (4K@100m) (HDBaseT Class A)

PoH | A/V In HDMI | A/V Out HDMI | Long Reach Mode | RS-232 Channel | IR Channel | HDCP 2.2



Features

- HDBaseT Connectivity – extends HDMI signals over a long distance via one Cat 5e / 6 / 6a cable
- Supports HDBaseT Long Reach Mode – up to a maximum range of 150 meters @ 1080p
- 4K x 2K HDMI transmission distance up to 100m over Cat 6a or ATEN 2L-2910 Cat 6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- PoH (Power over HDBaseT) – supplies power from Transmitter to Receiver over a long distance via one Cat 5e / 6 / 6a cable
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – two way IR protocol delivery by one IR port; IR transmission is processed one direction at a time
- Rack-mountable

Specifications

	VE1812R	VE1812T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (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)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Control		
RS-232	**Connector:** 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	**Connector:** 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Switches		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Power Consumption	DC5V: 4.26W	DC5V:3.2W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.45 kg (0.99 lb)	0.47 kg (1.04 lb)
Dimensions (L x W x H) with bracket	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x RS-232 Terminal Blocks	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE812 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A)

A/V In HDMI | A/V Out HDMI | HDCP 2.2

Front



Rear





Features

- HDBaseT Connectivity – extends an HDMI connection over a long distance via single Cat 6/6a cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

Specifications

	VE812R	VE812T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a); 1080p@ 100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a); 1080p @ 100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 5.06W	DC5.3V: 2.22W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0– 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.41 kg (0.9 lb)	0.40 kg (0.88 lb)
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE801 HDMI HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B)

A/V In HDMI | A/V Out HDMI | HDCP 2.2



Features

- HDBaseT Connectivity – extends HDMI signals over a single Cat 5e/6/6a cable or ATEN 2L-2910 Cat 6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable
- HDMI (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality – up to 4K@35m (Cat 5e/6) / 40m (Cat 6a or ATEN 2L-2910 Cat 6 cable)
- Plug-and-play

Specifications

	VE801R	VE801T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power consumption	DC5V:4.24W	DC5V:1.86W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.25 kg (0.55 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H) with bracket	9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.)	9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	5 pcs	
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE802 HDMI HDBaseT-Lite Extender with PoH (4K@40m) (HDBaseT Class B)

PoH | RS-232 Channel | IR Channel





Features

- HDBaseT Connectivity – extends an HDMI connection over a long distance via single Cat 5e/6/6a cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- PoH (Power over HDBaseT) – supplies power from Transmitter to Receiver over a long distance via one Cat 5e/6/6a cable
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device
- Bi-directional IR channel for IR signal control; IR transmission is processed one direction at a time
- Rack-mountable

Specifications

	VE802R	VE802T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Control		
RS-232	**Connector:** 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	**Connector:** 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power consumption	DC5V:4.37W	DC5V:12.28W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.46 kg (1.01 lb)	0.44 kg (0.97 lb)
Dimensions (L x W x H) with bracket	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs	
Included Accessories	1x Power Adapter (VE802T); 1x IR Transmitter; 1x IR Receiver; 2x Terminal Blocks	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE901 DisplayPort HDBaseT-Lite Extender (4K@40m;1080p@70m) (HDBaseT Class B)

A/V Out DisplayPort | A/V In DisplayPort



Front



Rear



Features

- HDBaseT Connectivity – extends a DisplayPort connection up to 70 meters via a single Cat 6a cable or ATEN 2L-2910 Cat 6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Superior video quality – 4K @ 35 m (Cat 5e/6) / 40 m (Cat 6a/ ATEN 2L-2910 Cat 6 cable) and 1920 x 1080 @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat 6 cable)
- DisplayPort receiver provides 3.3V/500mA of output power
- Rack-mountable

Specifications

	VE901R	VE901T
Video Input		
Interfaces	N/A	1 x DisplayPort Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.5 m
Video Output		
Interfaces	1 x DisplayPort Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	297MHz	297MHz
Compliance	DisplayPort (Deep Color, 4K) HDCP Compatible	DisplayPort (Deep Color, 4K) HDCP Compatible
Max. Resolutions / Distance	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x DisplayPort Female (Black)
Output	1 x DisplayPort Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power Consumption	DC5V: 5.72W	DC5V: 2.84W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.27 kg (0.59 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H)	9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)	9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE601 DVI HDBaseT-Lite Extender (1080p@70m)(HDBaseT Class B)





Front



Rear



Features

- HDBaseT Connectivity – extends a DVI 1080p connection up to 70 meters via a single Cat 6a/ATEN 2L-2910 Cat 6 cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Superior video quality –1920 x 1200@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m(Cat 5e/6) / 70m (Cat 6a)
- Rack-mountable

Specifications

	VE601R	VE601T
Video Input		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
Video Output		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	DVI (3D, Deep Color) HDCP compatible	DVI (3D, Deep Color) HDCP compatible
Max. Resolutions / Distance	Up to 1920 x 1200 @ 35 m (Cat 5e/6) / 40 m (Cat 6a/ ATEN 2L-2910 Cat 6); 1080p @ 60 m (Cat 5e/6) / 70 m (Cat 6a/ ATEN 2L-2910 Cat 6)	Up to 1920 x 1200 @ 35 m (Cat 5e/6) / 40 m (Cat 6a/ ATEN 2L-2910 Cat 6); 1080p @ 60 m (Cat 5e/6) / 70 m (Cat 6a/ ATEN 2L-2910 Cat 6)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack with locking	1 x DC Jack with locking
Power Consumption	DC5V:4.36V	DC5V:1.84W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0% – 80% RH, Non-condensing	0% – 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.25 kg (0.55 lb)	0.25 kg (0.55 lb)
Dimensions (L x W x H)	10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)	10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

Wall Plates



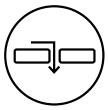
Why Choose ATEN Wall Plate Extenders?

The convenience and elegance that only wall plate extenders provide will enable you to immerse your AV extensions for any application into any environment, such as on walls or tables, to merge with all kinds of room decor while concealing cables and other equipment out of sight.



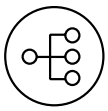
Convenient Installation

Support for US/decora, EU/MK wall plates offers comprehensive options across different regions.



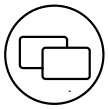
Conceal Cabling

Hide bulky cabling and other installed equipment out of sight.



Convenient Placement

Flexibly place signal input and output connections exactly where they are needed.



Complimentary Design

Mount on any surface while simply blending in with the environment.

Get the Most out of a Hybrid 3-in-1 Solution!

Switch
Between DP & VGA & HDMI inputs

+

Extend
1080p up to150m / 4K UP to 100m

+

Convert
From HDMI / VGA / DP to DVI / HDMI / DP

VE2812AEUT
VE2812AUST

HDMI & VGA HDBaseT Transmitter with EU / US Wall Plate / PoH (4K@100m) (HDBaseT Class A)

A/V Out HDMI | A/V In VGA | PoH | RS-232 Channel | Long Reach Mode | HDCP 2.2 | IR Channel | Audio In Stereo

Front (VE2812AEUT)



Front (VE2812AUST)



Side (VE2812AEUT)



Side (VE2812AUST)



Side (VE2812AEUT)



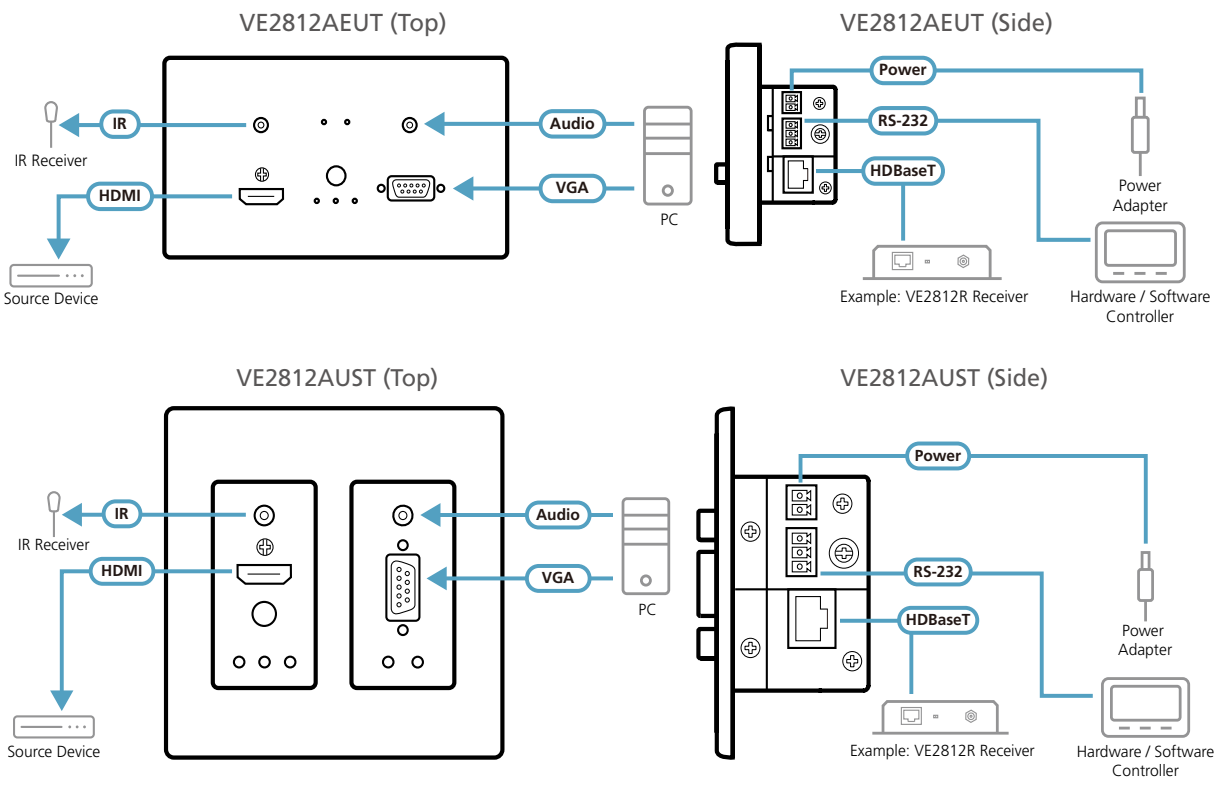
Side (VE2812AUST)



Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Designed to mount in a two-gang junction box
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality:
  - HDMI: 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
  - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- HDBaseT Long Reach Mode – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Built-in PoH (Power over HDBaseT) function – the VE2812AEUT / VE2812AUST receives power supply from the HDBaseT output port on the connected device
- Supports Auto Switch – allows the VE2812AEUT / VE2812AUST automatically switches to a newly plugged-in source
- Functions as a switch or a converter
  - A Switch: Connects two sources (HDMI or VGA)
  - A Converter: Applies receivers with different interface (DVI, DisplayPort, or HDMI)
- Supports RS-232 channel transmission or command mode for source switch Side (VE2812AUST) control
- Compatible Receivers – VE2812R, VE1812R, VE812R, VE814AR, VE811R, VE801R, VE802R, VE601R, VE901R or future ATEN HDBaseT Receivers
- Plug-and-play
- LED indication of sources and device status

Setup > VE2812AEUT + VE2812AUST



Specifications

	VE2812AEUT	VE2812AUST
Video Input		
Interfaces	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)
Impedance	HDMI: 100 Ω; HDB-15 (VGA): 75 Ω	HDMI: 100 Ω; HDB-15 (VGA): 75 Ω
Max. Distance	HDMI: 3 m; HDB-15 (VGA): 10 m	HDMI: 3 m; HDB-15 (VGA): 10 m
Video		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI: Up to 4K @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200 @ 70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080 @ 100m (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)	HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (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)
Audio		
Input	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)
Control		
RS-232 Channel	**Connector:**1 x Terminal Block, 3 pole (Green) Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	**Connector:** 1 x Terminal Block, 3 pole (Green) Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x Terminal Block, 2 pole (Green) or 1 x RJ-45 Female (PoH)	1 x Terminal Block, 2 pole (Green) or 1 x RJ-45 Female (PoH)
Power Consumption	DC5V:3.14W; PoE:3.93W	DC5V:3.04W; PoE:3.8W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.30 kg (0.66 lb)	0.21 kg (0.46 lb)
Dimensions (L x W x H)	5.00 x 10.80 x 5.17 cm (1.97 x 4.25 x 2.04 in.)	10.42 x 8.79 x 5.19 cm (4.1 x 3.46 x 2.04 in.)
Faceplate Dimension (L x W x H)	8.60 x 15.10 x 1.35 cm (3.39 x 5.94 x 0.53 in.)	11.43 x 11.43 x 0.65 cm (4.5 x 4.5 x 0.26 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x 3 Pin RS-232 Terminal Block; 1x 2 Pin Power Terminal Block; 1x Mounting Kit; 1x Power Adapter	1x 3 Pin RS-232 Terminal Block; 1x 2 Pin Power Terminal Block; 1x Faceplate; 1x Power Adapter
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE1801AEUT
VE1801AUST

HDMI HDBaseT-Lite Transmitter with EU / US Wall Plate / PoH (4K@40m) (HDBaseT Class B)

A/V In HDMI | RS-232 Channel | Wide Screen Support | HDCP 2.2 | Unit to Unit RJ-45 | PoH

Front (VE1801AEUT)



Front (VE1801AUST)



Rear



Rear



Features

- Extends HDMI signals with superior video quality over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
  - 4K up to 40 m
  - 1080p up to 70 m
- HDMI (3D, Deep color, 4K); HDCP 2.2 compliant
- Designed to mount in a one-gang junction box
- Supports RS-232 channel transmission
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- LED indication of device status
- Supports widescreen format
- Built- in 8KV / 15 KV ESD protection
- Plug-and-play

Specifications

	VE1801AEUT	VE1801AUST
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3 m	3 m
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
RS-232 Channel	1 x Terminal Block, (3 pole, Green)	1 x Terminal Block, (3 pole, Green)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x Terminal Block (2 pole, Green)
Power	1 x Terminal Block (2 pole, Green)	1 x RJ-45 Female
Power Consumption	DC5V: 3.26W; PoH: 4W	DC5V: 3.26W; PoH: 4W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.20 kg (0.44 lb)	0.21 kg (0.46 lb)
Dimensions (L x W x H)	6.86 x 4.44 x 5.00 cm (2.70 x 1.75 x 1.97 in.)	10.41 x 4.44 x 4.10 cm (4.10 x 1.75 x 1.97 in.)
Faceplate Dimension (L x W x H)	8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	N/A
Carton Lot	5 pcs	5 pcs
Included Accessories	1 x Rubber Pad Set; 1 x Faceplate; 2 x Pan Head Screws; 4 x PF Screws; 1 x 5-pin Terminal Block; 1 x Power Adapter	1 x Power Adapter; 1 x Faceplate; 2 x Flat Head Screws; 1 x 5-pin Terminal Block
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE1901AEUT
VE1901AUST

DisplayPort HDBaseT-Lite Transmitter with EU / US Wall Plate / PoH (4K@40m) (HDBaseT ClassB)

A/V In HDMI | RS-232 Channel | HDCP 2.2 | PoH

Front (VE1901AEUT)



Front (VE1901AUST)



Rear (VE1901AEUT)



Rear (VE1901AUST)



Features

- Extends DisplayPort signals with superior video quality over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
  - 4K up to 40 m
  - 1080p up to 70 m
- Built-in PoH (Power over HDBaseT) function – the VE1901AEUT / VE1901AUST receives power supply from the HDBaseT output port on the connected device
- Designed for one gang wall mount, support both US/Decora & EU/MK type with ATEN stylish face plate
- Supports RS-232 channel transmission
- Consumer Electronic Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission using HDBaseT technology
- Compatible Receivers–VE901R, VE801R, VE802R, VE601R, VE2812R , VE1812R, VE811R, VE812R, VE814AR, VP1421, or future ATEN HDBaseT Receivers
- LED indication of device status
- Built- in 8KV / 15 KV ESD protection
- Share function

Specifications

	VE1901AEUT	VE1901AUST
Video Input		
Interfaces	1 x DisplayPort Female (Black)	1 x DisplayPort Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.5 m	1.5 m
Video		
Max. Data Rate	10.2Gbps (3.4Gbps per lane)	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	297 MHz	297 MHz
Compliance	DisplayPort (Deep Color, 4K) HDCP Compliant	DisplayPort (Deep Color, 4K) HDCP Compliant
Max. Resolutions / Distance	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K @ 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	1 x DisplayPort Female (Black)	1 x DisplayPort Female (Black)
Control		
RS-232	1 x Terminal Block (3 pole, TX/RX/GND, Green)	1 x Terminal Block (3 pole, TX/RX/GND, Green)
Contact Out	1 x Terminal Block (2 pole, DO/GND, Green)	1 x Terminal Block (2 pole, DO/GND, Green)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x Terminal Block (2 pole, +5V/GND, Green) or 1 x RJ-45 Female (PoH)	1 x Terminal Block (2 pole, +5V/GND, Green) or 1 x RJ-45 Female (PoH)
Power Consumption	DC5V:2.97W; PoH:3.71W	DC5V:2.97W; PoH:3.71W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.20 kg	0.21 kg
Dimensions (L x W x H)	6.86 x 4.44 x 5.00 cm (2.70 x 1.75 x 1.97 in.)	10.41 x 4.44 x 5.00 cm (4.10 x 1.75 x 1.97 in.)
Faceplate Dimension (L x W x H)	8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	11.43 x 7.00 x 0.65 cm (4.50 x 2.75 x 0.26 in.)
Carton Lot	5	5
Included Accessories	1x 5-Pin Terminal Block; 1x Rubber Pad Set (4 pcs); 1 x Faceplate; 2 x Pan Head Screws; 4 x PF Screws; 1x Power Adapter	1x 5-Pin Terminal Block; 1x Faceplate; 2 x Flat Head Screws; 1x Power Adapter
Optional Accessories	Please refer to 9-70	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE806 / VE807 HDMI/Audio Cat 5 Extender with US / MK Wall Plate (1080p@40m)

A/V In HDMI | A/V Out HDMI | Stereo Audio | Wide Screen Support

Front



VE806R



VE806T

Rear



VE806R



VE806T



VE806



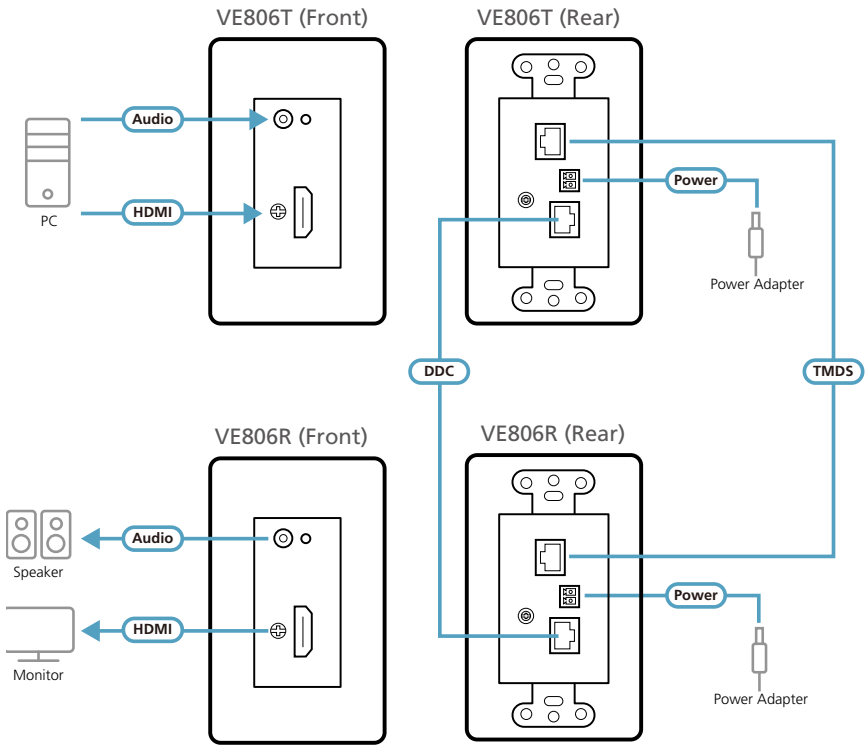
VE807

Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power*
- Superior video quality up to 1080p @60 Hz (40 m) and 1080i @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
  VE806: Decora type design for US
  VE807: MK type design for EU & UK
- LED indication of power and connection status
- Hot-pluggable

Note: *A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

Setup > VE806T + VE806R



Specifications

	VE806R / VE807R	VE806T / VE807T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
Audio		
Input	N/A	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
Power	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Power Consumption	VE806R:DC9V:2.28W VE807R:DC9V:0.81W	VE806T:DC9V:2.33W VE807T:DC9V:1.35W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	VE806R: 0.17 kg (0.37 lb) VE807R: 0.18 kg (0.4 lb)	VE806T: 0.17 kg (0.37 lb) VE807T: 0.18 kg (0.4 lb)
Dimensions (L x W x H)	VE806R: 10.41 x 4.44 x 4.00 cm (4.1 x 1.75 x 1.57 in.) VE807R: 6.86 x 4.44 x 4.00 cm (2.7 x 1.75 x 1.57 in.)	VE806T: 10.41 x 4.44 x 4.00 cm (4.1 x 1.75 x 1.57 in.) VE807T: 6.86 x 4.44 x 4.00 cm (2.7 x 1.75 x 1.57 in.)
Faceplate Dimension (L x W x H)	VE807R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE807T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Terminal Block (VE806/VE807); 1x Power Adapter (VE806/VE807); 2x MK Type Wall Plate Covers (VE807); 8x Screw Covers (VE807); 1x Screw kit (VE807)	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available, please refer to 12-7.

VE606 / VE607 DVI/Audio Cat 5 Extender with US / MK Wall Plate (1920 x 1200@40m)

Video In DVI | Video Out DVI | Stereo Audio | Wide Screen Support

Front



VE606R



VE606T

Rear



VE606R



VE606T



VE606



VE607

Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power*
- Uses a second Cat 5e cable for dual link signals
- Superior video quality – up to 1920 x 1200 @ 40m; 1280 x 1024 @ 60m
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
  VE606: Decora type design for US
  VE607: MK type design for EU & UK
- LED indication of power and connection status
- Hot-pluggable

Note: *A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

Specifications

	VE606R / VE607R	VE606T / VE607T
Video Input		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1920 x 1200@40m; 1280 x 1024@60m	Up to 1920 x 1200@40m; 1280 x 1024@60m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
Power	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Power Consumption	VE606R:DC9V:2.26W VE607R:DC9V:0.81W	VE606T:DC9V:2.31W VE607T:DC9V:1.35W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.18 kg (0.4 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	VE606R: 10.41 x 4.44 x 4.34 cm (4.1 x 1.75 x 1.71 in.) VE607R: 6.86 x 4.44 x 4.34 cm (2.7 x 1.75 x 1.71 in.)	VE606T: 10.41 x 4.44 x 4.34 cm (4.1 x 1.75 x 1.71 in.) VE607T: 6.86 x 4.44 x 4.34 cm (2.7 x 1.75 x 1.71 in.)
Faceplate Dimension (L x W x H)	VE607R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE607T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Terminal Block (VE606/VE607); 1x Power Adapter (VE606/VE607); 2x MK Type Wall Plate Covers (VE607); 8x Screw Covers (VE607); 1x Screw kit (VE607)	
Optional Accessories	Please refer to 9-71	

VE156 / VE157 VGA/Audio Cat 5 Extender with US / MK Wall Plate (1280 x 1024 @150 m)

Video In HDB-15 | Video Out HDB-15 | Wide Screen Support | Stereo Audio

Front



VE156R



VE156T

Rear



VE156R



VE156T



VE156



VE157

Features

- Uses two Cat 5e/6 cables to connect the local and remote units - one to transmit video and audio; the other to supply power*
- Superior video quality up to 1920 x 1200 @ 60 Hz (30 m) and 1280 x 1024 @ 60 Hz (150 m)
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Wall-mountable
  VE156: Decora type design for US
  VE157: MK type design for EU & UK
- LED indication of power and connection status
- Hot-pluggable

Note: *A second Cat 5e cable connection is required to remotely power on either the transmitter or receiver.

Specifications

	VE156R / VE157R	VE156T / VE157T
Video Input		
Interfaces	N/A	1 x HDB-15 Female (Blue)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	100 Ω	N/A
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Unit To Unit	2 x RJ-45 Female	2 x RJ-45 Female
Power	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Power Consumption	VE156R: DC9V: 1.65W VE157R: DC9V: 0.95W	VE156T: DC9V: 0.95W VE157T: DC9V: 1.65W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.18 kg (0.4 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	VE156R: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.) VE157R: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)	VE156T: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.) VE157T: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)
Faceplate Dimension (L x W x H)	VE157R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE157T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Terminal Block (VE156/VE157); 1x Power Adapter (VE156/VE157); 2x MK Type Wall Plate Covers (VE157); 8x Screw Covers (VE157); 1x Screw kit (VE157)	
Optional Accessories	Please refer to 9-71	



Wireless

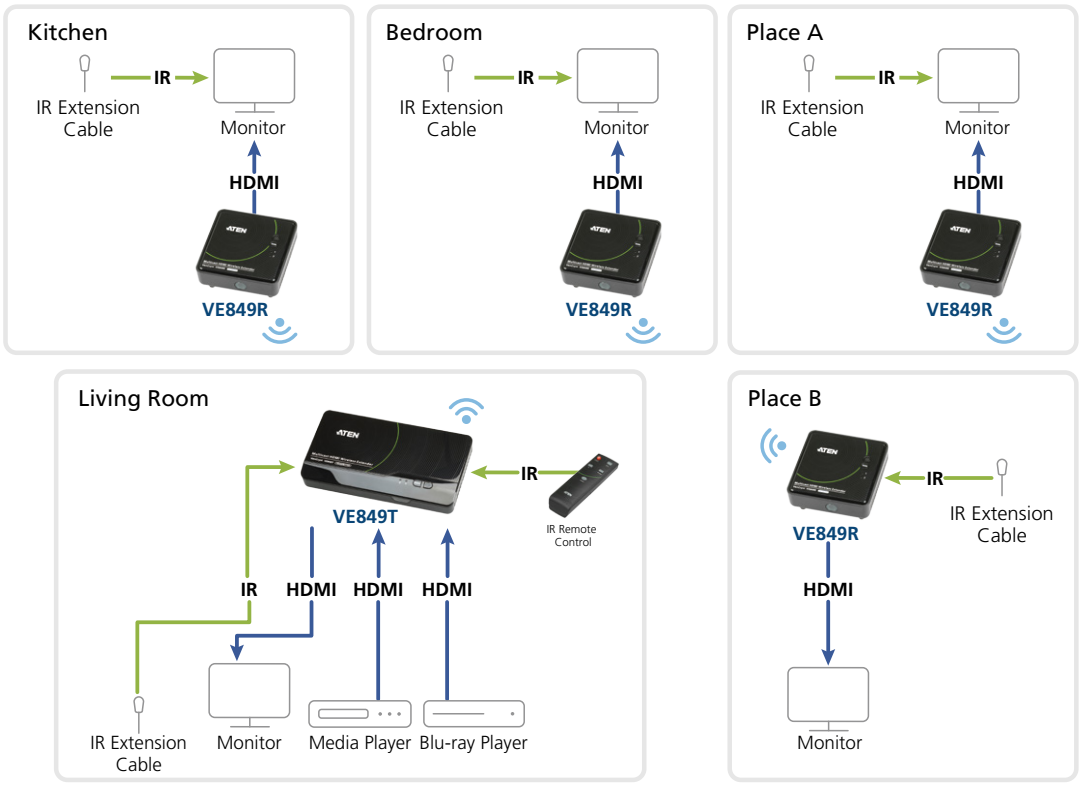


Location Flexibility
Wireless WHDI technology provides line-of-sight transmission to receivers up to 30m away. Place in a central location or on a movable platform and keep sources hidden from sight.

Plug-and-Play
A software-independent solution with no extra software/driver installation needed. Connect your Full HD displays and source devices to set up a multimedia environment with 5.1-channel surround sound, controlled by infrared.

High Performance & Security
The WHDI protocol ensures a bandwidth of 6.75 Gbps, with less than 1ms latency, while its 5 GHz proprietary wireless transmission provides higher protection against hackers in comparison to Wi-Fi. Even more, there is AES 128-bit encryption plus HDCP to further guarantee secure content transmission.

Setup > VE849



VE819 HDMI Dongle Wireless Extender (1080p@10m)

A/V In HDMI | A/V Out HDMI | 5.1 Channel | IR Remote Control | Multi-source Switching



Front



VE819T



VE819R

Rear



VE819T

Features

- Connects 1 HDMI input to 1 HDMI output via wireless extension up to 10 m*
- Wireless Source Switch - up to 4 wireless transmitters can be paired to 1 receiver
- IR remote control switches connection between multiple HDMI dongle transmitters
- WHDI™ Technology - Low latency <1ms
  - Uncompressed video transmission
- Extends signals up to 10 m, with superior image quality*
- Plug-and-play

Note: *Distance may vary depending on the actual environment; solid objects such as steel, concrete or brick may cause interference and shorten the transmission distances.

Specifications

	VE819R	VE819T
Video Input		
Interfaces	N/A	1 x HDMI Type A Male (Black)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p / 60Hz@10m (Line of Sight)	Up to 1080p / 60Hz@10m (Line of Sight)
Audio		
Input	N/A	1 x HDMI Type A Male (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Control		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	N/A
Connectors		
Power	1 x Mini USB Jack	1 x Mini USB Jack
Power Consumption	DC5V: 7.84W (Mini USB)	DC5V: 2.5W (Mini USB)
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 - 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.13 kg (0.29 lb)	0.03 kg (0.07 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.33 cm (3.74 x 3.74 x 1.31 in.)	3.00 x 7.03 x 1.75 cm (1.18 x 2.77 x 0.69 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Mini USB to USB Cable; 2x Mini USB Power Adapters; 1x HDMI Cable; 1x Remote Control Unit with 2 AAA Batteries; 1x IR Receiver cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3m)	12-7

*Cables with different lengths are available, please refer to 12-7.

VE849 Multicast HDMI Wireless Extender (1080p@30m)

A/V In HDMI | A/V Out HDMI | Multicast | 5.1 Channel | IR Remote Control







Features

- Connects 2 HDMI inputs to 5 HDMI outputs (1 local + 4 remote) via wireless extension up to 30m*
- Multicast signal – 1 transmitter streams HDMI transmissions up to 4 receivers simultaneously
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology - Low latency <1ms
  - Uncompressed video transmission

Note*: Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distances.

Specifications

	VE849R	VE849T
Video Input		
Interfaces	N/A	2 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3 m	3 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m (Line of Sight)	Up to 1080p@30m (Line of Sight)
Audio		
Input	N/A	2 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	1 x 2.5mm Mini Stereo Jack Female (Black)
Connectors		
Power	1 x DC Jack (Mini USB)	1 x DC Jack
Power Consumption	DC5V: 7.5W (Mini USB)	DC5V: 10W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.13 kg (0.29 lb)	0.21 kg (0.46 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.50 cm (3.74 x 3.74 x 1.38 in.)	18.00 x 9.50 x 3.00 cm (7.09 x 3.74 x 1.18 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	VE849T: 1x IR Remote Control with 2 AAA Batteries; 1x IR Blaster Cable; 1x Power Adapter VE849R: 1x Mini USB Power Adapter; 1x IR Receiver Cable; 1x HDMI Cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3m)	12-7

*Cables with different lengths are available, please refer to 12-7.

VE829 5x2 HDMI Wireless Extender (1080p@30m)

A/V In HDMI | A/V Out HDMI | 5.1 Channel | IR Remote Control



Features

- 5 x 2 Matrix - allows you to switch and independently select any of 5 sources (4 x HDMI connectors, 1 x component connector) between 2 HDTVs
- USB HID ports on the transmitter and receiver units enable wireless keyboard connectivity for control over connected computer
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology – Low latency < 1ms
- 2 HDMI output displays – different source contents can be displayed at the two displays (one at the local side and the other at the remote side)

Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

Specifications

	VE829R	VE829T
Video Input		
Interfaces	N/A	4 x HDMI Type A Female (Black); 1 x Component Video Female (Blue/Green/Red)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m (Line of Sight)	Up to 1080p@30m (Line of Sight)
Audio		
Input	N/A	4 x HDMI Type A Female (Black); 1 x Component Audio Female (Red/White)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
IR	1 x 2.5mm Jack Female (Black)	1 x 2.5mm Jack Female (Black)
Connectors		
Power	1 x DC Jack (Mini USB)	1 x DC Jack
Power Consumption	DC5V: 6.7W	DC5V: 9.5W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.13 kg (0.29 lb)	0.28 kg (0.62 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.55 cm (3.74 x 3.74 x 1.40 in.)	23.40 x 9.65 x 3.25 cm (9.21 x 2.62 x 1.28 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Remote Controls with batteries; 1x Component Adapter Cable; 1x IR Blaster Cable (VE829T); 1x IR Sensor Extender Cable (VE829R); 2x Power Adapters; 1x HDMI Cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3m)	12-7

*Cables with different lengths are available, please refer to 12-7.

VE809 HDMI Wireless Extender (1080p@30m)

A/V In HDMI | A/V Out HDMI | 5.1 Channel | IR Remote Control





Rear

R

T

Features

- Connects 2 HDMI inputs to 2 HDMI outputs (1 local + 1 remote) via wireless extension
- Transmits video content from Blu-ray DVD player, HD cable box or other HDMI devices wirelessly
- A built-in IR receiver for remote control of input devices
- WHDI™ technology – Low latency < 1ms
  – Uncompressed video transmission
- IR Return Channel – enables wireless control of input sources from remote site
- Plug-and-play

Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

Specifications

	VE809R	VE809T
Video Input		
Interfaces	N/A	2 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3 m	3 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m	Up to 1080p@30m
Audio		
Input	N/A	2 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	1 x 2.5mm Mini Stereo Jack Female (Black)
Connectors		
Power	1 x DC Jack (Mini USB)	1 x DC Jack
Power Consumption	DC5V: 6.58W	DC5V: 7.84W
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.12 kg (0.28 lb)	0.20 kg (0.45 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.15 cm (3.74 x 3.74 x 1.24 in.)	18.20 x 9.65 x 3.15 cm (7.17 x 3.8 x 1.24 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x IR Remote Control; 1x IR Blaster Cable; 1x HDMI Cable ; 1x Mini USB Power Adapter (VE809R); 1x Power Adapter (VE809T); 2x AAA Batteries	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-7

*Cables with different lengths are available, please refer to 12-7.

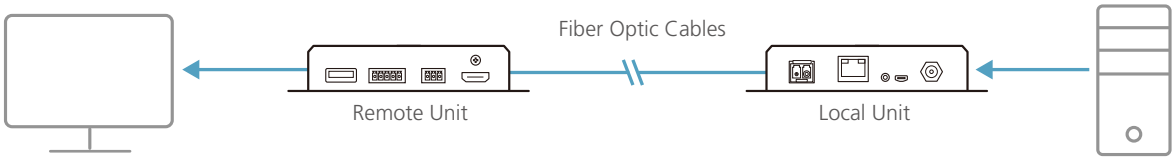


Fiber Optic / AOC



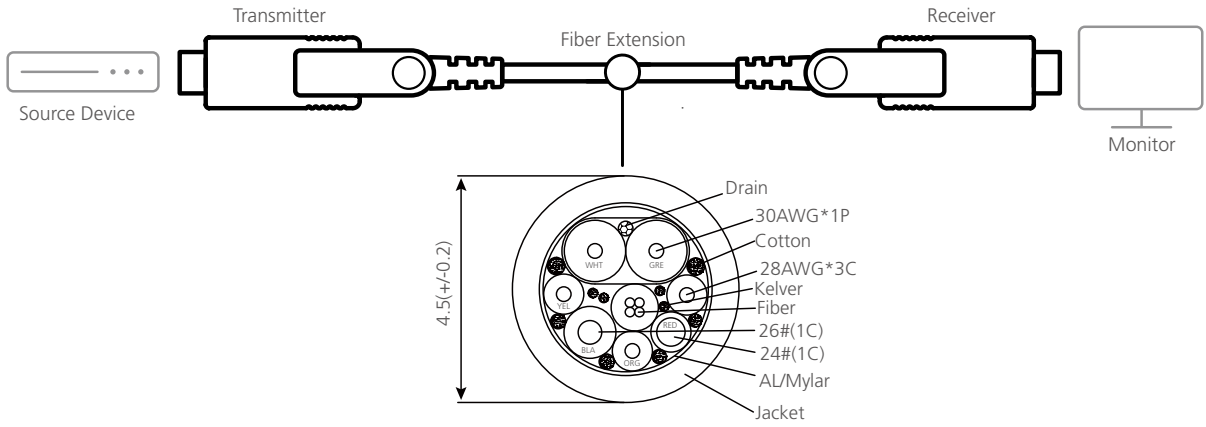
Optical Transmission

ATEN offers 4K HDMI fiber optic extender solutions that transmit 4K HDMI up to 10km and 1080p up to 20km and incorporate bi-directional RS-232, IR, USB 2.0, and Ethernet channels.



AOC Transmission

ATEN also offers a True 4K HDMI Active Optical Cable which is EMI-resistant and fully compliant with HDCP 2.2 and HDMI, including 3D, deep color, and data rates up to 18 Gbps.



VE883 4K HDMI Optical Extender (4K@300m (K1, MM) / 10km (K2, SM))

300 m (VE883K1) 10 km (VE883K2)

A/V In HDMI | A/V Out HDMI | RS-232 Channel | IR Channel | FIBER | USB 2.0 Channel | Audio Channel | HDCP 2.2



Features

- Extends HDMI video, stereo audio, IR, RS-232 control, USB 2.0 and Ethernet signals over duplex fiber optic cabling
- Supports ultra long distance transmission up to 10 km*
- FarSmooth – ATEN's exclusive FarSmooth technology prevents lagging and freezing by matching the output rates to the input rates and ensures the video display is stable, smooth and identical to the source, particularly in long-distance extension applications where uninterrupted video streams are required.
- Supports lossless 4K video up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Bi-directional IR signal transmission – IR transmission is processed one direction at a time, ranged from 30 kHz to 56 kHz
- Features RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Supports USB 2.0, with a maximal transfer rate of 25MByte/s
- Rack-mountable

*The maximum transmission distance may vary depending on the fiber type, bandwidth, connector splicing, losses, model, chromatic dispersion, environmental factor, and kinks.

Specifications

	VE883R	VE883T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 5 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	Up to 10 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
Max. Resolution	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)
Max. Distance	1 x SFP Module (Note) VE883K1: up to 300m (MM, OM3), (Black) VE883K2: up to 10km (SM), (Blue)	1 x SFP Module (Note) VE883K1: up to 300m (MM, OM3), (Black) VE883K2: up to 10km (SM), (Blue)
Audio		
Input	N/A	1 x Terminal Block, 5 pole (Green)
Output	1 x Terminal Block, 5 pole (Green)	N/A
Connectors		
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
Firmware Upgrade	1 x Micro USB (Type B) Female (Black)	1 x Micro USB (Type B) Female (Black)
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power Consumption	DC5V: 6.77W	DC5V: 7.05W
Fiber Optics		
Data Rate	10.3 Gbps	10.3 Gbps
Wavelength	VE883K1: 850 nm; VE883K2: 1310 nm	VE883K1: 850 nm; VE883K2: 1310 nm
Fiber Type	VE883K1: Multi mode(MM), OM3, LC Duplex Type VE883K2: Single mode(SM), LC Duplex Type	VE883K1: Multi mode(MM), OM3, LC Duplex Type VE883K2: Single mode(SM), LC Duplex Type
Control		
USB Channel	1 x USB Type A Female (White)	1 x USB Type B Female (White)
RS-232 Channel	1 x Terminal Block, 3 pole (Green)	1 x Terminal Block, 3 pole (Green)
IR Channel	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
Ethernet Channel	1 x RJ-45 Female	1 x RJ-45 Female
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.64 kg (1.41 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H) with bracket	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters; 2x Terminal Block 3 Pole; 2x Terminal Block 5 Pole; 1x IR Receiver; 1x IR Emitter; 1x USB Cable; 2x HDMI LockPro; 2x SFP Modules	
Optional Accessories	Please refer to 9-71	

Note: 1. It is recommended that you use Single Mode fibers that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications; Use Multi Mode fibers that conform to IEC 11801 (OM3) specifications.
2. The Device is class 1 laser product. It meets the safety regulations of IEC/EN 60825-1, 21 CFR 1040.10, and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

VE882 VE892 HDMI Optical Extender (1080p@600m/20km)

TAIWAN EXCELLENCE 2014

600 m (VE882) 20 km (VE892)

A/V In HDMI | A/V Out HDMI | RS-232 Channel | IR Channel | FIBER | Wide Screen Support

Front





Rear (VE882)



Rear (VE892)



Features

- Extends an HDMI / IR / RS-232 connection via one optical fiber cable
- Connects the local and remote units via one optical fiber cable
- Bi-directional RS-232 channel transmits signals over optical fiber cable to control a display or other device
- Bi-directional IR channel for IR signal control; full range IR transmission (30~56 KHz) is processed one direction at a time
- Hot-pluggable
- Rack-mountable

Specifications

	VE882R / VE892R	VE882T / VE892T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible	HDMI (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolution	Up to 1080p	Up to 1080p
Max. Distance	VE882R: 1 x SFP Module (Note) 600m @ Single mode (SM) fiber 300m @ OM3 Multi mode (MM) filber VE892R: 1 x SFP Module (Note) 20km @ Single mode (SM) fiber	VE882T: 1 x SFP Module (Note) 600m @ Single mode (SM) fiber 300m @ OM3 Multi mode (MM) filber VE892T: 1 x SFP Module (Note) 20km @ Single mode (SM) fiber
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 4.69W	DC5.3V: 5.80W
Control		
IR Channel	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
RS-232 Channel	1 x Terminal Block, 3 pole (Green)	1 x Terminal Block, 3 pole (Green)
Environmental		
Operating Temperature	0 – 40°C	0 – 40°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.44 kg (0.97 lb)	0.44 kg (0.97 lb)
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x IR Transmitter; 1x IR Receiver; 1x Mounting Kit; 2x Power Adapters	
Optional Accessories	Please refer to 9-71	

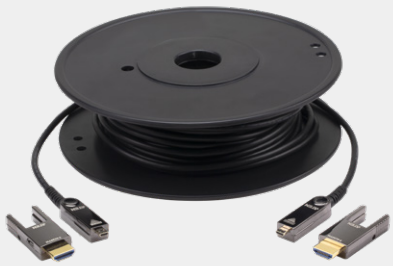
Note: 1. Operating distance is approximate. A typical maximum distance may vary depending on factors such as fiber type, bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.
2. It is recommended that you use a Single Mode optical fiber cable that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications.
3. The VE882 supports OM3 optical fiber which can extend the transmission distance up to 300 meters.

VE7831A / VE7832A / VE7833A / VE7834A / VE7835A

True 4K HDMI Active Optical Cable
(True 4K@10m / 20m / 30m / 60m / 100m)

A/V In HDMI | A/V Out HDMI | FIBER | HDCP 2.2

10 m (VE7831A) | 20 m (VE7832A) | 30 m (VE7833A) | 60 m (VE7834A) | 100 m (VE7835A)



Features

- Supports resolution up to True 4K (4096 x 2160@60Hz 4:4:4)
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Supports HDR
- Pluggable gender for easy installation
- Extends True 4K signals up to 100 m
- High data transfer rate of 18 Gbps
- Robust design – 500 N pulling strength & compression load resistance
- Additional power source is available via Micro USB cable
- Multi channel audio - Dolby TrueHD and DTS-HD
- Reduced EMI and RFI for lower noise interference
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum)

Specifications

	VE7831A	VE7832A	VE7833A	VE7834A	VE7835A
Cable Length	10 m	20 m	30 m	60 m	100 m
Cable Type	Cable Type: Hybrid cable with optical fiber and copper wire; HDMI Standards: High Speed HDMI Cable				
Video Input					
Interfaces	1 x HDMI 19-pin Type-A Male (gold-plated) pluggable connector 1 x HDMI Type-D Male				
Video Output					
Interfaces	1 x HDMI 19-pin Type-A Male (gold-plated) pluggable connector 1 x HDMI Type-D Male				
Video					
Max. Data Rate	18 Gbps (6 Gbps per Channel)				
Max. Pixel Clock	600 MHz (Max.)				
Compliance	HDMI (3D, Deep Color, 4K, HDR) HDCP 2.2 Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0 Color Depth: 30 / 36 / 48 bit				
Max. Resolutions	Up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:4:4)				
Communication					
Signals	TMDS / HDCP 2.2 / EDID / CEC				
Audio					
Input	PCM 8-channel, Dolby Digital True HD, DTS-HD Master Audio				
Output	PCM 8-channel, Dolby Digital True HD, DTS-HD Master Audio				
Conductor					
Construction	7 x Tinned Copper Wire (30 AWG *2 / 28AWG *3 / 26 AWG *1 / 24 AWG *1) 4 x OM3 Optical Fiber (50 / 125 um)				
Jacketed					
Material	UL Plenum (CMP-OF)				
Power Consumption	DC 5 V : 0.25 W : 0.05 A				
Power (Optional)	Optional power source: Micro USB to USB cable (45 cm)				
Certifications					
Certifications	Safety and Emission: CE / FCC / RoHS2 / UL CMP-OF				
Notification	Bend Radius: 6 mm (Min.); Connector Pull Strength: Max. 10 kg (100 N) Compression Load Resistance: Max. 50 kg (500 N)				
Environmental					
Operating Temperature	0 - 50°C				
Storage Temperature	-20 - 70°C				
Humidity	0 - 85 % RH, Non-Condensing				
Physical Properties					
Housing	Connector Case: Zinc-Alloy				
Cable Outer Dimension	Cable Outer Diameter: 3.4 mm (± 0.2 mm)				
Conductor Gauge	Tinned Copper Wire (30 / 28 / 26 / 24 AWG)				
Conductor Material	Tinned Copper				
Unit weight	0.4 kg	0.69 kg	0.98 kg	1.86 kg	3.05 kg
Carton Lot	10 pcs	10 pcs	10 pcs	10 pcs	5 pcs
Included Accessories	1x Wiring Tool; 1x Screwdriver; 2x Screws; 1x Micro USB to USB Cable				

VE781010
VE781020
VE781030

True 4K HDMI Active Optical Cable (True 4K@10m/20m/30m)

A/V In HDMI | A/V Out HDMI | FIBER | HDCP 2.2

10 m (VE781010) | 20 m (VE781020) | 30 m (VE781030)



Features

- Supports resolution up to True 4K (4096 x 2160 @ 60Hz 4:4:4)
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Supports HDR
- Extends True 4K signals up to 30 m
- High data transfer rate of 18 Gbps
- Robust design – 500 N pulling strength & compression load resistance
- Multi channel audio - Dolby TrueHD and DTS-HD
- Reduced EMI and RFI for lower noise interference
- No external power source required

Specifications

	VE781010	VE781020	VE781030
Cable Length	10m	20m	30m
Video Input			
Interfaces	1 x HDMI 19-pin Type-A Male		
Video Output			
Interfaces	1 x HDMI 19-pin Type-A Male		
Video			
Max. Data Rate	18 Gbps (6 Gbps per Channel)		
Max. Pixel Clock	600 MHz (Max.)		
Compliance	HDMI (3D, Deep Color, 4K, HDR, ARC); HDCP 2.2		
Max. Resolutions	Up to 4096 x 2160 / 3840 x 2160 @60Hz (4:4:4) / 10M *Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0 *Color Depth: 30 / 36 / 48 bit		
Audio			
Input	PCM 8-channel, Dolby Digital TrueHD, DTS-HD Master Audio		
Output	PCM 8-channel, Dolby Digital TrueHD, DTS-HD Master Audio		
Conductor			
Construction	7 x Tinned Copper wire strand (30 AWG *2 / 28AWG *3 / 26 AWG *1 / 24 AWG *1) 4 x OM3 Optical Fiber (50/125um)		
Jacketed			
Material	PVC (85P); Color: Black		
Certifications			
Certifications	Safety and Emission: CE / FCC / RoHS2; EMC Class-A / Class-B		
Notification	Bend Radius: 6mm (Min.) Compression Load Resistance: Max. 50kg (500N) Cable Filler: Kevlar Cable Marking: ATEN INTERNATIONAL --- HIGH SPEED HDMI HYBRID ACTIVE OPTICAL CABLE 4K@60Hz 18Gbps -- PVC CE EU RoHS EC ZONE/DEVICE * No external power required.		
Communication			
Signals	TMDS / HDCP 2.2 / EDID / CEC		
Cable Type	Hybrid type with optical fiber (OM3) and copper wire		
Power Consumption	DC5.0V:0.25W:0.05A		
Environmental			
Operating Temperature	0 – 50°C		
Storage Temperature	-20 – 70°C		
Humidity	0 – 85% RH, Non-Condensing		
Physical Properties			
Cable Outer Dimension	4.5mm (± 0.2mm)		
Conductor Gauge	7 x Tinned Copper wire strand (30 AWG *2 / 28AWG *3 / 26 AWG *1 / 24 AWG *1)		
Conductor Material	Tinned Copper		
Housing	Connector Case: Zinc Alloy		
Weight	0.35 kg (0.77 lb)	0.65 kg (1.43 lb)	0.90 kg (1.98 lb)
Carton Lot	5 pcs	5 pcs	5 pcs
Included Accessories	1x Installation Notice		



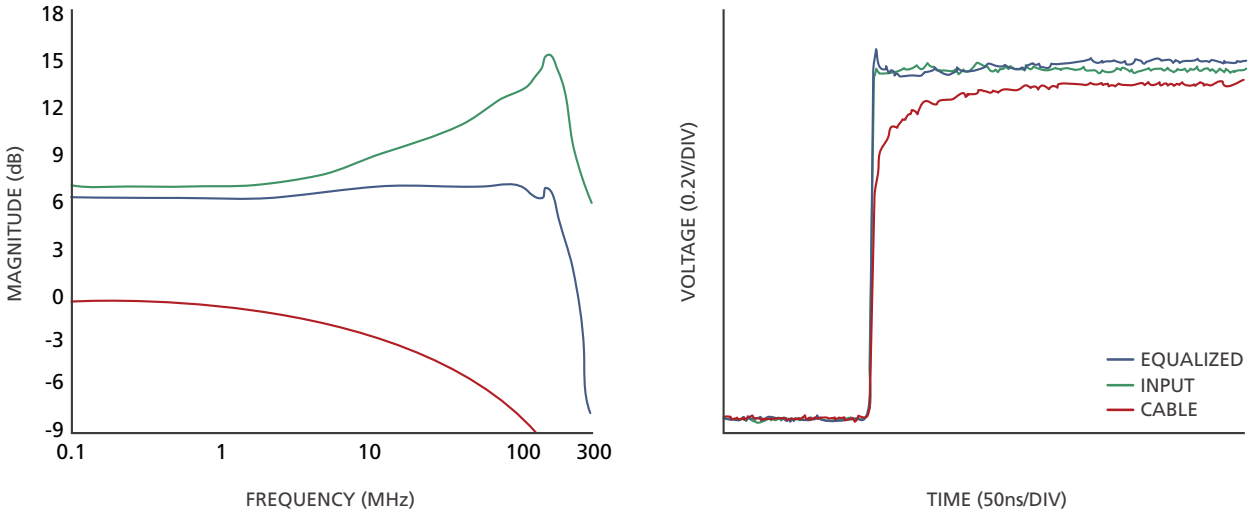
More Extender Solutions



Cat 5 / Cat 6 Extenders

ATEN provides a wide range of long-distance extension solutions utilizing equalizer technology that connect via Cat5e/6/6a cables, including HDMI, HDMI/USB, HDMI/IR, Mini DVI, Dual Link DVI with Audio, VGA, VGA with Audio, and VGA/Audio/RS-232 models.

For high-speed signals, such as DVI and HDMI, there is serious decay after long-distance transmission. Equalizer technology compensates for signal loss at various frequencies, with higher frequency signals decaying more after long-distance transmission, as shown below. ATEN Cat 5/Cat 6 extenders use equalizer technology to recover the signal and bring video quality back to normal.



Boosters

ATEN Boosters amplify and transmit signals to increase distances in your AV installation. Solutions that support True 4K HDMI up to 20m / 1080p up to 40m, and 1280x1024 VGA up to 70m, as well as other DVI and VGA models, are available.

VE800A HDMI Cat 5 Extender (1080p@40m)

A/V In HDMI | A/V Out HDMI



Features

- Extends an HDMI connection via single Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable is required to connect between VE800AT and VE800AR if EDID Bypass and/or HDCP authentication needs to be enabled.

Front



Rear



Specifications

	VE800AR	VE800AT
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p @ 40m; 1080i @ 60m	Up to 1080p @ 40m; 1080i @ 60m
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5V: 0.61W	DC5V: 0.9W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.16 kg (0.35 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.)	9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.)
Carton Lot	5 pcs	
Included Accessories	2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-7
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available, please refer to 12-7.

VE803 HDMI/USB Cat 5 Extender (1080p@40m)

A/V In HDMI | A/V Out HDMI | USB Touch panel | Wide Screen Support | EDID



Features

- Extends an HDMI connection via Cat 5e cable
- Supports Transparent USB connectivity to all USB 2.0 full speed devices, such as a touch panel
- Transmitter unit can be powered on via USB
- Supports 8-segment equalization adjustment via switch
- ATEN EDID Technology – features ATEN default EDID
- Rack-mountable

Specifications

	VE803R	VE803T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p @ 40m; 1080i @ 60m	Up to 1080p @ 40m; 1080i @ 60m
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Control		
USB	1 x USB Type A Female	1 x USB Type B Female
EDID Settings	**EDID Mode:** Default	**EDID Mode:** Default
Power Consumption	DC5V: 0.75W	DC5V: 1.04W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.16 kg (0.35 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter; 1x USB Cable; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-7
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available, please refer to 12-7.

VE810 HDMI/IR Cat 5 Extender (1080p@40m)

A/V In HDMI | A/V Out HDMI | Non-Powered | IR Channel

(VE810R)



Front

R

L

Rear

R

L

Features

- Extends an HDMI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Compatible for use with all ATEN HDMI switches and splitters
- The remote unit can be powered on from the local unit via a Cat 5e cable
- Bi-directional IR channel for IR signal control; IR transmission is processed one direction at a time
- Rack-mountable

Specifications

	VE810L	VE810R
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	3 m	N/A
Video Output		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	3 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D, Deep Color); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p @ 40m; 1080i @ 60m	Up to 1080p @ 40m; 1080i @ 60m
Audio		
Input	1 x HDMI Type A Female (Black)	N/A
Output	N/A	1 x HDMI Type A Female (Black)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Control		
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power Consumption	DC5V: 2.41W	DC5V: 1.06W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.16 kg (0.35 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter (Local Unit); 1x Mounting Kit; 1x IR Receiver; 1x IR Transmitter	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-7
Low Skew Cable	2L-2801	12-3
IR Receiver Cable	2XRT-0003G	13-2
Full Range IR Emitter (30-56 KHz)	2XRT-0004G	13-2

*Cables with different lengths are available, please refer to 12-7.

VE602 DVI Dual Link/Audio Cat 5 Extender (2560 x 1600@40m)

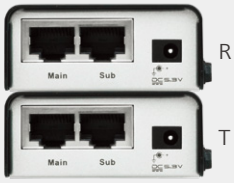
Video In DVI | Video Out DVI | Wide Screen Support | Stereo Audio | EDID



Front



Rear



Features

- Extends a DVI / Aduio connection via Cat 5e cable
- Uses a second Cat 5e cable for dual link signals
- Supports 8-segment equalization adjustment via switch
- ATEN EDID Technology – features ATEN default EDID and learning of the EDID from the display connected to the Transmitter (VE602T)
- Rack-mountable

*The VE602 does not support HDCP

Specifications

	VE602R	VE602T
Video Input		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Max. Resolutions / Distance	Dual Link: up to 2560 x 1600@40m Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m	Dual Link: up to 2560 x 1600@40m Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 2.4W	DC5.3V: 2.86W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.18 kg (0.4 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	2x Power Adapters; 1x Mounting Kit	

Note: HDCP is not supported

Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	12-3
DVI Cable with Audio	2L-7D02V	12-8
Dual Link DVI Cable*	2L-7D03DD (3 m)	12-8

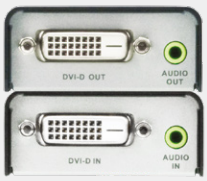
*Cables with different lengths are available, please refer to 12-8.

VE600A DVI/Audio Extender (1920 x 1200@40m)

Video In DVI | Video Out DVI | Wide Screen Support | Stereo Audio



Front



Rear



Features

- Extends a DVI connection via Cat 5e cable
- Long distance transmission – up to 60 m
- Audio enabled
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable connection (DDC) is required to remotely power on either the transmitter or receiver and also to bypass EDID & HDCP signals.

Specifications

	VE600AL	VE600AR
Video Input		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Max. Distance	1.8 m	N/A
Video Output		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1080p @ 40m; 1080i @ 60m	Up to 1080p @ 40m; 1080i @ 60m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	N/A
Output	N/A	1 x Mini Stereo Jack Female (Green)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 1.56W	DC5.3V: 0.76W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.17 kg (0.37 lb)	0.17 kg (0.37 lb)
Dimensions (L x W x H)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	12-3
DVI Cable with Audio	2L-7D02V	12-8

VE066 Mini DVI Cat 5 Extender (1080p@15m)

Video In DVI | Video Out DVI | Smart Video Display



Features

- Extends a DVI connection via Cat 5e cable
- Compatible for use with all ATEN DVI switches and splitters
- Smart Video Display – image quality is optimized based on available resolution of the output device
- Compact size ideal for limited-space installation
- Hot-pluggable

Specifications

	VE066R	VE066T
Video Input		
Interfaces	N/A	1 x DVI-D Male (Gold)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x DVI-D Male (Gold)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	4.95 Gbps (1.65 Gbps Per Lane)	4.95 Gbps (1.65 Gbps Per Lane)
Max. Pixel Clock	165 MHz	165 MHz
Compliance	HDCP Compatible	HDCP Compatible
Power Consumption	DC5V: 0.12W	DC5V: 0.12W
Max. Resolutions / Distance	Up to 1080p@15m; 1080i@20m	Up to 1080p@15m; 1080i@20m
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0% – 80% RH, Non-condensing	0% – 80% RH, Non-condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.05 kg (0.11 lb)	0.05 kg (0.11 lb)
Dimensions (L x W x H)	5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.)	5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.)
Carton Lot	20 pcs	20 pcs

Optional Accessories

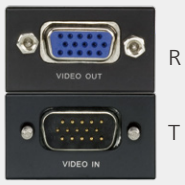
Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

VE022 Mini VGA/Audio Cat 5 Extender (1280 x 1024@150m)

Video In HDB-15 | Video Out HDB-15 | Video Compensation (VE022R) | Non-Powered (VE022T)



Front



R

T

Rear



R

T

Features

- Extends a VGA / Audio connection via Cat 5e cable
- Convenient docking interface for mounting on the display device
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable

Specifications

	VE022R	VE022T
Video Input		
Interfaces	N/A	1 x HDB-15 Male (Black)
Impedance	N/A	75 Ω
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	75 Ω	N/A
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5V: 0.95W	DC5V: 0.62W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0% – 80% RH, Non-condensing	0% – 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.05 kg (0.11 lb)	0.05 kg (0.11 lb)
Dimensions (L x W x H)	6.42 x 3.53 x 2.06 cm (2.53 x 1.39 x 0.81 in.)	7.35 x 3.53 x 2.06 cm (2.89 x 1.39 x 0.81 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter; 1x VGA Cable; 1x Audio Cable ; 1x Dock Mount kit; 1x USB to DC Power Cord	

Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	12-3
VGA / Audio Cable	2L-2402A	12-8

VE150A VGA Cat 5 Extender (1280 x 1024@150m)

Video In HDB-15 | Video Out HDB-15 | Wide Screen Support | Video Compensation

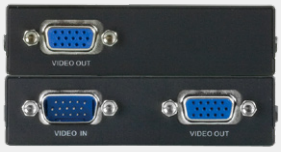
Front



R

T

Rear



R

T



Features

- Extends a VGA connection via Cat 5e cable
- Supports one local and one remote VGA display
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable
- Rack-mountable

Specifications

	VE150AR	VE150AT
Video Input		
Interfaces	N/A	1 x HDB-15 Male (Blue)
Impedance	N/A	75 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 0.87W	DC5.3V:1.35W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0% – 80% RH, Non-condensing	0% – 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.24 kg (0.53 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters; 1x VGA Cable; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
Low Skew Cable	2L-2801	12-3
VGA EDID Emulator	2A-130G	10-20

VE170 / VE170Q VGA / Audio Cat 5 Extender (1024 x 768@300m)

Video In HDB-15 | Video Out HDB-15 | ATEN Deskew | Video Compensation

(VE170Q)

Front



VE170T

VE170R

VE170RQ



Rear



VE170T

VE170R

VE170RQ

Features

- Extends a VGA (with Audio) connection via Cat 5e cable
- Supports one local and one remote VGA display
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable
- Deskew Function (VE170RQ) – allows you to synchronize the time delay of RGB signals to compensate for distance

Note: Package option 1: VE170 (VE170T + VE170R)
Package option 2: VE170Q (VE170T + VE170RQ)

Specifications

	VE170R / VE170RQ	VE170T
Video Input		
Interfaces	N/A	1 x HDB-15 Male (Blue)
Impedance	N/A	75 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	VE170R: Up to 1920 x 1200 @ 30m; 1024 x 768 @ 300m VE170RQ: Up to 1920 x 1200 @ 150m; 1280 x 1024 @ 300m	Up to 1920 x 1200 @ 30m; 1024 x 768 @ 300m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	VE170R: DC5.3V: 3.32W VE170RQ: DC5.3V: 5.24W	DC5.3V: 2.42W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0% – 80% RH, Non-condensing	0% – 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.24 kg (0.53 lb)	0.25 kg (0.55 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x VGA/Audio Cable; 2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 9-71	

VE200 VGA/Audio/RS-232 Cat 5 Extender with Dual Output (1280 x 1024@200m)

Video In HDB-15 | Video Out HDB-15 | RS-232 Channel | Dual Display (VE200R) | Video Compensation | IR Channel (VE200R)

Front



R

L

Rear



R

L



Features

- Extends a VGA / Audio connection via Cat 5e cable
- Bi-directional RS-232 channel transmits signals over Cat 5e cable to control a display or other device
- Supports one local and two remote displays
- An IR channel for screen On/Off control and video adjustment at remote site
- Adjustable Gain Control – signal strength can be manually adjusted in Video Gain or Video Compensation modes via OSD for optimum display quality
- Rack-mountable

Specifications

	VE200L	VE200R
Video Input		
Interfaces	VE200L: 1 x HDB-15 Male (Blue)	N/A
Impedance	75 Ω	N/A
Max. Distance	1.8 m	N/A
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	2 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200 @ 30m; 1280 x 1024 @ 200m	Up to 1920 x 1200 @ 30m; 1280 x 1024 @ 200m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	N/A
Output	1 x Mini Stereo Jack Female (Green)	2 x Mini Stereo Jack Female (Green)
Control		
RS-232	1 x DB-9 Female (Black), 1 x DB-9 Male (Black)	2 x DB-9 Male (Black)
IR	N/A	1 x Mini Stereo Jack Female (Black)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 2.22W	DC5.3V: 3.65W
Environmental		
Operating Temperature	0 – 50°C	0 – 50°C
Storage Temperature	-20 – 60°C	-20 – 60°C
Humidity	0% – 80% RH, Non-condensing	0% – 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.35 kg (0.77 lb)	0.35 kg (0.77 lb)
Dimensions (L x W x H)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x VGA/Audio Cable; 2x Power Adapters; 1x Infrared Remote Control Handset; 1x Infrared Receiver; 1x Infrared Receiver Holder; 1x Rack Mounting Kit	
Optional Accessories	Please refer to 9-71	

VB905 4K DisplayPort Booster (True 4K@10m)

Video Out DisplayPort | Video In DisplayPort | HDCP 2.2

Front



Rear





Features

- Extends True 4K signal transmission up to 5 m
- Compliant with DisplayPort 1.2a and HDCP 2.2
- Superior video quality — up to True 4K resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- Supports HDR
- Cascade 3 levels to extend True 4K signal up to 20 m
- A single unit can be powered from the source device
- Plug-and-play
- Rack-mountable

Note: Longer transmission distance is possible with lower data rates. If you want to remain high quality transmission, please use higher quality cable.

Specifications

	VB905
Video Input	
Interfaces	1 x DisplayPort Female (20-pin)
Max. Distance	Up to 4K x 2K@60Hz (4:4:4) / 5m 1080p @ 60Hz / 5m
Video Output	
Interfaces	1 x DisplayPort Female (20-pin)
Max. Distance	Up to 4K x 2K @ 60Hz (4:4:4) / 5m 1080p @ 60Hz / 5m
Video	
Max. Data Rate	21.6 Gpbs (5.4 Gbps Per Lane)
Compliance	DP1.2a HDCP 2.2
Max. Resolution	4096 x 2160 @ 60Hz (4:4:4)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.94W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.05 kg (0.11 lb)
Dimensions (L x W x H)	5.84 x 3.53 x 2.06 cm (2.3 x 1.39 x 0.81 in.)
Carton Lot	10 pcs
Included Accessories	1 x Power Adapter

VB800 True 4K HDMI Booster (True 4K@20m)

A/V In HDMI | A/V Out HDMI | HDCP 2.2

Front



Rear





Features

- Amplifies and transmits signals from an HDMI input to an HDMI output
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Supports True 4K resolutions up to 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR10+
- LED indication of power status and source device
- Cascadable up to 10 levels with distances at 4K resolutions*
- Plug-and-play – No software installation required
- Rack-mountable

Note: * The first, fourth, seventh and tenth level devices need to be connected to a power source.

Specifications

	VB800
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Max. Distance	5M at 4096x2160@60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Max. Distance	5M at 4096x2160@60Hz (4:4:4)
Video	
Max. Bandwidth	600 MHz
Max. Data Rate	18 Gpbs (6 Gbps Per Lane)
Compliance	HDMI, HDCP 2.2 Compatible
Max. Resolutions / Distance	Up to 10M at 4K @ 60 Hz (4:4:4); Up to 20M at 1080p @ 60Hz
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.99W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.09 kg (0.21 lb)
Dimensions (L x W x H)	4.90 x 5.60 x 1.70 cm (1.93 x 2.2 x 0.67 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m) / 2L-7D05H (5 m)	12-7

*Cables with different lengths are available, please refer to 12-7.

VB100 VGA Booster (1280 x 1024@70m)



Front



Rear



Side





Features

- Amplifies and transmits signals from a VGA input to a VGA output
- LED indication of source device status
- Adjustable Gain Control – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable

Specifications

	VB100
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200 @ 30m; 1280 x 1024 @ 70m
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.63W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.06 kg (0.13 lb)
Dimensions (L x W x H) with bracket	3.53 x 6.88 x 2.06 cm (1.39 x 2.71 x 0.81 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter

Note: Please use the power adapter included in the package if VB100 cannot be powered via the source device. Respective length of both VGA cables can vary, but the total length of both cables cannot exceed 70 meters.

Video Extender Rack Mount Kit VE-RMK1U / VE-RMK2U / VE-RMK3U

ATEN's Video Extender Rack Mount Kit offers a range of flexible mounting solutions for installing ATEN video extenders and KVM extenders in a rack. You can choose from three VE-RMK rack mount kits (1U to 3U) to match the extender type you are installing, which allows for a well-organized and easy-to-maintain setup.



VE-RMK1U



Features

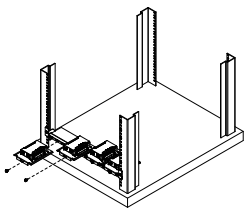
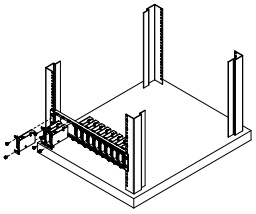
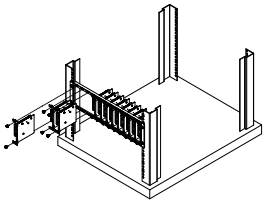
- Standard 1U, 2U and 3U designs fit into rack space neatly
- Fixed stand allows extenders to be safely installed on the rack
- Allows easy cabling and maintenance
- Provides flexible rack mounting for 1 to 12 extenders

VE-RMK2U



VE-RMK3U



Product Name	Compatible Products
VE-RMK1U 	CS724KM, CS72E, CS74D, CS74E, CE924, CE611, KE8900SR, KE8900ST, KE9900ST, CE920, CE920L, CE920R, CE820L, CE820R, CE820, CE610A, CE624, CE620, KE6900ST, CE750A, CE100, CE250A, CE350, CE370, CE600, CE604, CE610, CE700A, CE750, CE770, CE790, CE800B, KA8270, KA8278, KA8280, KA8288, CN8000A, CN8000, VE8952R, VE8952T, VE66DTH, VE8900R, VE8900T, VE8950R, VE8950T, RCM101A, UC2322, UC2324, UC4852, UC4854, VC1280, VC880, VE3912T, VE2812AT, VE883R, VE883T, VE2812R, VE883, VE814A, VE814AR, VE814AT, VE813A, VE816R, VE811, VE811R, VE811T, VE2812T, VE1812, VE901, VB802, VE150A, VE170, VE172R, VE300, VE500, VE560, VE600A, VE601, VE602, VE800A, VE801, VE802, VE803, VE810, VE812, VE813, VE814, VE882, VE892, VE1843, VS184B, VS182B, VS192, VS194, VS182A, VS481C, VS481A, VS481B, KA9140, KA7174
VE-RMK2U 	VE800A, VE803, VE810, VE600A, CE100
VE-RMK3U 	VE810, VE803, VE801, VE800A, VE601, VE600A, CE100

Optional Accessories

VE1830 / VE1801AEUT / VE1801AUST

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1

VE1901AEUT / VE1901AUST

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (1.8m) / 2L-7D03DP (3m) / 2L-7D03DP-1 (3m) / 2L-7D04DP (4.6m)	12-8
HDBaseT Cat 6 Cable	2L-2910	12-1

VE1843

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	11-5
LockPro™ HDMI Cable Lock	2X-EA12	13-1
Full Range IR Receiver (30-56 KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE3912T

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (1.8m)	12-8
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-7
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ HDMI Cable Lock	2X-EA12	13-1
VGA Cable	2L-2502 (2m)	12-8
Full Range IR Receiver (30-56 KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-1

VE816R / VE805R / VE814A / VE1812 / VE802

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-8
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ HDMI Cable Lock	2X-EA12	13-1
Full Range IR Receiver (30-56 KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-1

VE2812AT / VE2812R / VE2812AEUT / VE2812AUST

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-8
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ HDMI Cable Lock	2X-EA12	12-1
VGA Cable	2L-2502 (2m)	13-1
Full Range IR Receiver (30-56 KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-1

VE813A / VE811 / VE812 / VE801

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2m) / 2L-7D03H (3 m)	12-8
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ HDMI Cable Lock	2X-EA12	12-1

VE901

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (1.8m)	12-8
HDBaseT Cat 6 Cable	2L-2910	12-1

VE601

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1

VE606 / VE607

Description	Part No. / Spec.	Page No.
Low Skew Cat 5e Cable	2L-2801	12-3
DVI Cable with Audio	2L-7D02V	12-8

VE156 / VE157

Description	Part No. / Spec.	Page No.
Low Skew Cat 5e Cable	2L-2801	12-8

VE883 / VE882 / VE892

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m) / 2L-7D03H (3 m)	12-8
LockPro™ HDMI Cable Lock	2X-EA12	12-1
Full Range IR Receiver (30-56 KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-1

VE170 / VE170Q

Description	Part No. / Spec.	Page No.
Low Skew Cat 5e Cable	2L-2801	12-8
DVI Cable with Audio	2L-2402A	12-8
VGA EDID Emulator	2A-130G	10-20

VE200

Description	Part No. / Spec.	Page No.
Low Skew Cat 5e Cable	2L-2801	12-8
DVI Cable with Audio	2L-2402A	12-8
VGA EDID Emulator	2A-130G	10-20
IR Remote Control	2XRT-0301G	13-2
Full Range IR Receiver (30-56 KHz)	2XRT-0003G	13-2

*Cables with different lengths are available, please refer to 12-7 & 12-8.



Video Converters

ATEN Video Converters allow you to connect source devices to any display device with a diverse selection of video interfaces, including DisplayPort, Mini DisplayPort, HDMI, DVI, SDI, and VGA. We provide simple single port-to-port converters as well as multiple interface products which integrate multiple device inputs into a single box for the easy conversion of various analog-to-digital AV signals. With built-in, easy-to-use features, this series makes converting connections simple.



- **Popular Video Interface Support**
  Our products incorporate all current video interfaces including: VGA, DVI, SDI, Mini DisplayPort, DisplayPort and HDMI, while meeting the strict requirements needed for high quality signal conversions.

- **Easy Installation, Plug-n-Play**
  Designed for flexible and convenient installations and applications – with no additional software, drivers, or configuration required.

- **Outstanding Multimedia**
  With high-quality video, the integrated audio component delivers an outstanding AV experience when working with modern multimedia applications and equipment.

- **Superior UHD Resolutions**
  Features models with up to 4K and True 4K with HDR that support all popular HDR formats on the market, in line with the latest multimedia resolution trends and delivering more vivid and vibrant video for your applications.

- **Audio Extraction**
  ATEN's additional audio de-embedder function extracts and converts audio signals from the HDMI input. This means you can choose between analog stereo and digital audio via optical or coaxial connections for additional methods to produce high-quality audio output.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.



Specifications at a Glance

Input Interface	HDMI	HDMI/DVI	HDMI	HDMI/VGA	HDMI		
Output Interface	HDMI	HDMI	HDMI	HDMI	SDI	VGA	VGA
Model	VC882	VC881	VC880	VC1280	VC840	VC812	VC810
Max. Resolution	4096 X 2160 @ 60Hz (4:4:4)	HDMI: 3840 x 2160 @30Hz (4:4:4) DVI: 1920 x 1200	1920 x 1080 @60Hz (4:4:4)	HDMI: 3840 x 2160 @30Hz (4:4:4) VGA: 1920 x 1200	1920 x 1080 @60Hz (4:4:4)	1920 x 1200 @60Hz (4:4:4)	1920 x 1080 @60Hz (4:4:4)
Audio Input	HDMI, Coaxial, Stereo	HDMI, Stereo	HDMI	HDMI, Stereo	HDMI	HDMI	N/A
Audio Output	N/A	HDMI, Optical, Coaxial, Stereo	HDMI, Optical, Coaxial, Stereo	HDMI	Stereo, S/PDIF	Stereo, Coaxial	N/A
Scaler	•	N/A	N/A	N/A	N/A	•	N/A
Audio Embedding	•	•	N/A	•	N/A	N/A	N/A
Audio De-embedding	•	•	•	N/A	•	•	N/A

Input Interface	SDI		VGA		
Output Interface	HDMI / SDI	HDMI	HDMI	HDMI	DVI
Model	VC486	VC480	VC182	VC180	VC160A
Max. Resolution	HDMI: 4096 x 2160 @60Hz (4:4:4) SDI: 3840 x 2160 @60Hz (4:4:4)	1920 x 1080 @60Hz (4:2:2)	1920 x 1200 @60Hz (4:4:4)	1920 x 1080 @60Hz (4:4:4)	1920 x 1200 @60Hz (4:4:4)
Audio Input	SDI	SDI	Stereo, Coaxial	Stereo	N/A
Audio Output	Stereo, HDMI	Stereo, S/PDIF, HDMI	HDMI	HDMI	N/A
Scaler	N/A	N/A	•	N/A	N/A
Audio Embedding	N/A	N/A	•	•	N/A
Audio De-embedding	•	•	N/A	N/A	N/A

Input Interface	DisplayPort			Mini DisplayPort	
Output Interface	HDMI	HDMI	VGA / DVI / HDMI	HDMI	VGA / DVI / HDMI
Model	VC986B	VC986	VC925 / VC965 / VC985	VC981	VC920 / VC960 / VC980
Max. Resolution	4096 x 2160 @60Hz (4:4:4)	3840 x 2160 @30Hz (4:4:4)	1920 x 1080 @60Hz (4:4:4)	3840 x 2160 @30Hz (4:4:4)	1920 x 1080 @60Hz (4:4:4)
Audio Input	DisplayPort	DisplayPort	VC985: DisplayPort	Mini DisplayPort	VC980: Mini DisplayPort
Audio Output	HDMI	HDMI	VC985: HDMI	HDMI	VC980: HDMI
Audio Embedding	N/A	N/A	N/A	N/A	N/A
Audio De-embedding	N/A	N/A	N/A	N/A	N/A

EDID Emulator

Interface	HDMI	VGA	DVI	HDMI	VGA
Model	VC081A	VC010	VC060	VC080	2A-130G
Max. Resolution	3840 x 2160 @60Hz (4:4:4)	1920 x 1200 @60Hz (4:4:4)	1920 x 1200 @60Hz (4:4:4)	4096 x 2160 @60Hz (4:2:0)	1920 x 1200
Audio	HDMI	N/A	N/A	HDMI	N/A
RS-232 Connection	N/A	•	•	•	N/A

VC882 True 4K HDMI Repeater with Audio Embedder and De-Embedder

A/V In HDMI | A/V Out HDMI | HDCP 2.2 | 5.1 Channel | Stereo Audio | Audio Out Coaxial | HDR



Front



Rear



Features

- Embeds audio to the HDMI output or de–embeds audio from the HDMI signal and outputs the extracted signal through an alternative audio system
- Easy embedding / de-embedding mode selection via 2 / 4-pin DIP switches
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Superior video quality — up to 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR10, HDR10+, Dolby Vision and Hybrid Log-Gamma (HLG)
- Supports HDMI audio formats — LPCM 2.0, Dolby Digital 2.0, Dolby Digital 5.1 and DTS Digital 5.1
- Compact, portable metal enclosure designed for HDMI Lock-pro
- Firmware upgradable

Specifications

	VC882
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5 m
Video	
Max. Data Rate	18 Gbps
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color); HDCP 2.2 compatible
Max. Resolution	4096 X 2160 @ 60Hz (4:4:4)
Audio	
Input	Coaxial x1; Format: LPCM2.0, Dolby Digital 2.0, Dolby Digital 5.1, DTS Digital 5.1 3-pin terminal block x 1; Format: Analog, stereo, unbalanced, LPCM2.0
Output	Coaxial x1; ormat: LPCM2.0, Dolby Digital 2.0, Dolby Digital 5.1, DTS Digital 5.1 3-pin terminal block x 1; Format: Analog, stereo, unbalanced, LPCM2.0
Connectors	
Power	1 x DC Jack, 5V, Lockable
Firmware Upgrade	1 x Micro USB
LEDs	
Power	LED (blue) x1
Reset Button	Push button x1 (to activate mode configuration)
Switches	
Mode Selection	MODE 1 (2-PIN) PIN#1 (Enable / Disable Audio Embedder Function) PIN#2 (Audio embed from Coaxial / Stereo) MODE 2 (4-PIN) PIN#1 (Enable / Disable Audio Extractor Function) PIN#2 (Enable / Disable ARC function) PIN#3&4 (EDID mode selection: Bypass, 5.1 CH, 2 CH, Learn)
Power Consumption	DC5V:2.905W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.22 x 8.22 x 2.50 cm (4.81 x 3.24 x 0.98 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

VC881 4K HDMI/DVI to HDMI Converter with Audio De-Embedder

A/V In HDMI | A/V Out HDMI | 5.1 Channel | Video In DVI | Stereo Audio | Audio Out Coaxial | Audio Out RCA | Audio Out Toslink | SPDIF



Front



Rear



Features

- Easy mode selection via a pushbutton
  - HDMI to HDMI
  - DVI to HDMI
  - Audio Return Channel (ARC)
- HDMI (3D, Deep Color, 4K); HDCP 1.4 compliant
- Superior video quality:
  - HDMI: up to 4K (3840 x 2160 @ 30Hz)
  - DVI: up to 1920 x 1200
- HDMI audio stream can be extracted and converts it to S/PDIF, Coaxial, or RCA Stereo Audio signal
- LED indication of power status
- Firmware upgradable
- All metal casing

Specifications

	VC881
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x DVI-D Female (White)
Impedance	100 Ω
Max. Distance	HDMI: 3m; DVI: 1.8m
Video Output	
Interfaces	1 x HDMI Type A Female (Black) with ARC
Impedance	100 Ω
Max. Distance	3m
Video	
Max. Data Rate	10.2 Gps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolution	HDMI: 3840 x 2160 @ 30Hz; DVI: 1920 x 1200
Audio	
Input	Stereo Audio: 1 x 3.5mm Jack (Green)
Output	Optical Audio: 1 x Toslink (Black); Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (White / Red)
Switches	
Mode Selection	Side Switch x 1 (HDMI Audio Out - ON/OFF) Side Switch x 1 (Audio Out Channel - AUTO/CH 5.1/CH 2) Push Button x 1 (Audio Function Selection): 1. HDMI to HDMI 2. DVI to HDMI 3. ARC (Audio Return Channel)
Connectors	
Power	1 x DC Jack, 5V, Lockable
Firmware Upgrade	1 x 3.5mm jack (FW upgrade)
Power Consumption	DC5V: 1.767W
Environmental	
Operating Temperature	0 – 40°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 8.49 x 2.50 cm (7.95 x 3.34 x 0.98 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

VC880 HDMI Repeater Plus Audio De-Embedder

A/V In HDMI | A/V Out HDMI | 5.1 Channel | Audio Out Toslink | Audio Out RCA | Audio out Stereo

Front



Rear





Features

- Extracts HDMI audio signal and outputs as additional audio source
- Supports optical / coaxial digital audio and analog stereo audio
- Superior Video Quality – up to 1920 x 1080 (1080p)
- Repeats HDMI input signal up to 15 meters
- CH2/CH5.1/Auto mode audio channel selection

Specifications

	VC880
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3m at 1920 x 1080 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15m at 1920 x 1080 @ 60Hz (4:4:4)
Video	
Max. Data Rate	6.75 Gps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1080
Audio	
Output	1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange); 2 x RCA (Red/White);
Connectors	
Power	1 x DC Jack
Power Consumption	DC5.3V: 2.25W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.46 kg (1.01 lb)
Dimensions (L x W x H)	20.00 x 8.20 x 2.50 cm (7.87 x 3.23 x 0.98 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

VC1280 2-Port 4K HDMI/VGA to HDMI Converter Switch

A/V In HDMI | A/V Out HDMI | Video In HDB-15 | Audio In Stereo | Auto Switching

Front



Rear





Features

- Easily switches sources among 3 modes (HDMI/VGA/AUTO) via a pushbutton
- Superior Video Quality:
  - HDMI: up to 4K (3840 x 2160 @ 30Hz)
  - VGA: 1600 x 1200 and 1920 x 1200
- Auto Switching – automatically switches to a newly plugged-in source
- HDMI (3D, Deep color, 4K); HDCP 1.4 compliant
- RS-232 Channel Transmission – allows you to connect to serial terminals or serial devices for firmware upgrade

Specifications

	VC1280
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x VGA HDB-15 Female (Blue)
Impedance	HDMI: 100Ω; VGA (HDB-15): 75Ω
Max. Distance	HDMI: 3m; VGA:1.8m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Video Input: HDMI (3840 x 2160 @ 30Hz); 3m; VGA (1920 x 1200); 1.8m Video Output: HDMI (3840 x 2160 @ 30Hz); 15m
Audio	
Input	1 x HDMI Type A Female (Black); 1 x 3.5mm Stereo Audio Jack Female (Green)
Connectors	
Power	1 x DC Jack (Black) with locking
Control	
RS-232	**FW upgrade & control:** **Connector:** 1 x Terminal Block, 3 pole **Baud Rate:** 19200, Data Bits:8, Stop Bits:1, no parity and flow control
Switches	
Video Input Port Selection	1 x Push Button - HDMI / VGA / AUTO
Power Consumption	DC5V: 1.8W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.43 kg (0.95 lb)
Dimensions (L x W x H) with bracket	14.32 x 12.30 x 3.00 cm (5.64 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	10 pcs
Included Accessories	1x Power adapter; 1x RS-232 Terminal Block

VC840 HDMI to 3G-SDI/Audio Converter

A/V In HDMI | Video Out SDI | EDID | Audio Out RCA | SPDIF

Front



Rear





Features

- Converts HDMI input signals to a 3G/HD/SD-SDI output
- Automatic detection of input video signals
- Offers 2 low-jitter SDI outputs for dual display
- Supports 8 audio channels@48 kHz rate
- Re-clocking SDI signals for cascading and extended transmission
- Power connector lock for secure communications
- EDID Expert™– selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Selectable EDID settings and EDID learning mode

Specifications

	VC840
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3m at 1920 x 1080 @ 60Hz (4:4:4)
Video Output	
Interfaces	2 x BNC (Gold)
Impedance	75 Ω
Video	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
Audio	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
SDI Formats	SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)
EDID Settings	**EDID Mode:** Learn
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 3.225W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	20 – 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	12.20 x 10.70 x 3.04 cm (4.8 x 4.21 x 1.2 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

VC812 HDMI to VGA/Audio Converter with Scaler

A/V In HDMI | Video Out HDB-15 | Stereo Audio | Scaler | OSD | Audio Out Coaxial



Front



Rear



Features

- Converts HDMI input signals to a VGA output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- Scaler – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Superior Video Quality – up to 1080p / 1920 x 1200
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- Integrated superior video noise reduction
- Integrated Next Generation Color Engine – automatic picture quality / color adjustment and enhancement
- Built-in OSD – for video and system configurations via pushbuttons
- De-interlace – for smooth video playback quality

*The VC812 does not support HDCP

Specifications

	VC812
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDB-15 Female (Black)
Impedance	75 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1920 x 1200
Supported Resolutions	480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200
Audio	
Output	Analog: 1 x Mini Stereo Jack Female (Black) Digital: 1 x RCA (Yellow)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 2.125W
Environmental	
Operating Temperature	0 – 40°C
Storage Temperature	-20 – 60°C
Humidity	20 – 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x Software CD

VC810 HDMI to VGA Adapter

A/V In HDMI | Video Out HDB-15 | Non-Powered | Wide Screen Support

Front



Rear





Features

- Converts HDMI signals to VGA output
- Superior Video Quality – up to 1920 x 1200 / 1080p
- Supports wide screen formats

Specifications

	VC810
Video Input	
Interfaces	1 x HDMI Type A Male (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDB-15 Female (Black)
Impedance	75 Ω
Video	
Max. Pixel Clock	200 MHz
Max. Resolution	Up to 1920 x 1080 @ 60Hz
Environmental	
Operating Temperature	0 – 60 °C
Storage Temperature	-10 – 70 °C
Humidity	40 – 85% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.01 kg (0.02 lb)
Dimensions (L x W x H)	4.55 x 2.30 x 1.48 cm (1.79 x 0.91 x 0.58 in.)
Carton Lot	40 pcs

VC486 12G-SDI to HDMI Converter

Video In SDI | A/V Out HDMI | Audio Out RCA



Front



Rear



Features

- Converts HD/3G/6G/12G-SDI input signals to an HDMI output
- Automatic detection of input video signals
- Supports analog stereo audio
- Supports an SDI distance of up to 45M (12G-SDI), 60M (6G-SDI), 90M (3G-SDI), and150M (HD-SDI)
- Supported SDI formats: HD-SDI (SMPTE 292M, 296M, up to 1.485Gbps); 3G-SDI (SMPTE 424M, 425M level A, and B, up to 2.97Gbps)
- Power connector lock for secure communications
- Supports 8 channels audio output

Specifications

	VC486
Video Input	
Interfaces	1 x SDI (BNC connector, inter-locked socket)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI Type A Female; 1 x SDI (BNC connector, inter-locked socket)
Impedance	HDMI: 100 Ω / SDI: 75 Ω
Video	
Max. Data Rate	12 Gbps
Supported Resolutions	720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.98/24/25/29.97/30/50/59.94/60 Hz; 1080PsF@25/29.97/30 Hz; 2160p@23.98/24/25/29.97/30/50/59.94/60 Hz; 2K DCI@23.98/24/25 Hz; 2K DCI PsF@25 Hz; 4K DCI@23.98/24/25 Hz
Max. Distance	[12G-SDI] up to 45m; [6G-SDI] up to 60m; [3G-SDI] up to 90m; [HD-SDI] up to 150m; HDMI up to 3m (3840 x 2160 @ 60Hz)
Audio	
Output	1 x HDMI Type A Female; 2 x RCA connector Female (R/L, analog audio)
Format	Compliance with HDMI with Audio 2 CH
SDI Formats	HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps) 6G-SDI (SMPTE 2081-1, SMPTE 2081-10, up to 6 Gbps) 12G-SDI (SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1 and SMPTE 2082-10, up to 12 Gbps)
Control	
USB	1 x Micro USB (FW upgrade)
Connectors	
Power	1 x DC 5V 3A, Lockable
Switches	
Audio EDID Selection	1 x rotary switch (8-steps)
Power Consumption	DC5V: 5.69W
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg (1.43 lb)
Dimensions (L x W x H)	18.20 x 12.96 x 2.87 cm (7.17 x 5.1 x 1.13 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x HDMI LockPro; 4x Foot Pads

VC480 3G-SDI to HDMI/Audio Converter

Video In SDI | A/V Out HDMI | Audio Out RCA | SPDIF

Front



Rear





Features

- Converts 3G/HD/SD-SDI input signals to an HDMI output
- Automatic detection of input video signals
- Buffered loop-through output provides extended monitoring
- Re-clocking SDI signals for cascading and extended transmission
- Supports an SDI distance of up to 90M (3G-SDI), 150M (HDSDI), or 300M (SD-SDI) of RG6
- Supports additional analog stereo audio and coaxial digital audio
- Power connector lock for secure communications
- Supports 8 audio channels@48 kHz rate

Specifications

	VC480
Video Input	
Interfaces	1 x BNC (Gold)
Impedance	75 Ω
Max. Distance	HDMI: 15m at 1920 x 1080 @ 60Hz (4:4:4)
Video Output	
Interfaces	1 x HDMI Type A Female (Black); 1 x BNC (Gold)
Impedance	100 Ω
Video	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
Audio	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
SDI Formats	SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 3.635W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	20 – 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	12.30 x 10.87 x 3.05 cm (4.84 x 4.28 x 1.2 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

VC182 VGA/Audio to HDMI Converter with Scaler

Video In HDB-15 | A/V Out HDMI | Scaler | OSD | Audio In Stereo | Audio In RCA



Front



Rear



Features

- Converts VGA input signals to HDMI output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- Scaler – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- Integrated superior video noise reduction
- De-interlace – for smooth video playback quality
- Built-in OSD – for video and system configurations
- Integrated Next Generation Color Engine – automatic picture quality / color adjustment and enhancement
- Supports analog / digital audio

Specifications

	VC182
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1080p
Scaler Resolutions	480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200
Audio	
Input	Analog: 1 x Mini Stereo Jack Female (Black) Digital: 1 x RCA (Yellow)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 1.56W
Environmental	
Operating Temperature	0 – 40 °C
Storage Temperature	-20 – 60 °C
Humidity	20 – 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.31 kg (0.68 lb)
Dimensions (L x W x H)	11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x Software CD

VC180 VGA/Audio to HDMI Converter

Video In HDB-15 | A/V Out HDMI | Audio In Stereo | Screen Position Tuner

Front



Rear





Features

- Converts VGA input signals to an HDMI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- Superior Video Quality – up to 1080p, WUXGA
- Compact and lightweight design
- Screen Position Button – saves screen position settings for each output resolution

Specifications

	VC180
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1080p
Audio	
Input	1 x Mini Stereo Jack Female (Green)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 2.62W
Environmental	
Operating Temperature	0 – 50 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.16 kg (0.35 lb)
Dimensions (L x W x H)	7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

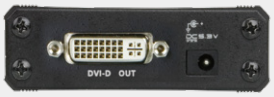
VC160A VGA to DVI Converter

Video In: HDB-15 | Video Out: DVI | Smart Video Display | Screen Position Tuner | OS Support: Win, Mac

Front



Rear





Features

- Converts VGA input signals to a DVI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- Screen Position Button – saves screen position settings for each output resolution
- Multiplatform support – Windows and Mac

Specifications

	VC160A
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x DVI-D Female (White)
Impedance	100 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1920 x 1200
Connectors	
Power	1 x DC Jack
Power Consumption	DC5.3V: 1.64W
Environmental	
Operating Temperature	0 – 50 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.15 kg (0.33 lb)
Dimensions (L x W x H)	7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter

VC986B
VC986
VC981

True 4K DisplayPort to HDMI Active Adapter
4K DisplayPort to HDMI Active Adapter
4K Mini DisplayPort to HDMI Active Adapter

(VC986B) (VC981/VC986)

A/V In Mini DisplayPort (VC981) | A/V In DisplayPort (VC986/VC986B) | A/V Out HDMI | OS Support Win, Mac | Active Adapter | Audio Supported

VC981



VC986



VC986B



Features

- Superior Video Quality – up to 4096 x 2160 @ 60Hz (VC986B) / 3840 x 2160 @ 30Hz (VC986/VC981)
- Active Adapter – features an advanced chip which ensures stable video signal conversion even when the video source does not support dual-mode DisplayPort (DP++)*
- Supports Eyefinity (multi-screen setups)
- Audio supported
- No software or driver installation required
- DisplayPort 1.2a compliant

Note: *Dual-mode DisplayPort (DP++) can directly process the signal from DisplayPort to HDMI or DVI signals. Devices supporting DP++ will display this logo.

Specifications

	VC981	VC986	VC986B
Video Input			
Interfaces	1 x Mini DisplayPort Male (White)	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)
Video Output			
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Video			
Max. Pixel Clock	297 MHz	297 MHz	600 MHz
Max. Resolution	3840 x 2160 @ 30Hz; 1920 x 1200 @ 60Hz	3840 x 2160 @ 30Hz; 1920 x 1200 @ 60Hz	4096 x 2160 @ 60Hz; 3840 x 2160 @ 60Hz
Compliance	DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3	DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3	DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 2.2
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)	18 Gbps (6 Gbps Per Lane)
Audio			
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Plastic	Plastic	Plastic
Weight	0.04 kg (0.09 lb)	0.04 kg (0.09 lb)	0.04 kg (0.09 lb)
Dimensions (L x W x H)	17.50 x 4.50 x 1.50 cm (6.89 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)
Carton Lot	40 pcs	40 pcs	40 pcs

VC925 DisplayPort to VGA Adapter
VC965 DisplayPort to DVI Adapter
VC985 DisplayPort to HDMI Adapter

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Video In: DisplayPort
Video Out: HDB-15 (VC925)
Video Out: DVI (VC965)
A/V Out: HDMI (VC985)
Resolution: 1920 x 1200, 1080P
OS Support: Win, Mac
Extendable (VC985)
Audio Supported (VC985)

VC925



VC965



VC985



Features

- Supports VGA, SVGA, XGA, SXGA, UXGA and resolutions up to 1920 x 1200 (PC) / 1080p (HDTV)
- Audio Supported (VC985 Only)
- No software or driver installation required
- DisplayPort 1.2 compliant

Specifications

	VC925	VC965	VC985
Video Input			
Interfaces	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I* Female (White) *Only support digital signal transmission.	1 x HDMI Type A Female (Black)
Video			
Max. Pixel Clock	165 MHz	165 MHz	165MHz
Max. Resolution	Input: up to 4096 x 2160 @ 60Hz (4:4:4) Output: up to 1920 x 1200	Input: up to 4096 x 2160 @ 60Hz (4:4:4) Output: up to 1920 x 1080	1920 x 1080 @ 60HZ
Compliance	DP 1.2	DP 1.2, DVI 1.1	DP 1.2, HDMI
Audio			
Output	N/A	N/A	1 x HDMI Type A Female (Black)
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60°C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Plastic	Plastic	Plastic
Weight	0.045 kg (0.10 lb)	0.048 kg (0.11 lb)	0.04 kg (0.09 lb)
Dimensions (L x W x H)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)
Carton Lot	40 pcs	40 pcs	40 pcs

VC920 Mini DisplayPort to VGA Adapter
VC960 Mini DisplayPort to DVI Adapter
VC980 Mini DisplayPort to HDMI Adapter

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE



(VC920) (VC960) (VC980) (VC980)

VC920



VC960



VC980



Features

- Converts mini DisplayPort input signals to a VGA / DVI / HDMI output
- Supports VGA, SVGA, XGA, SXGA, UXGA and resolutions up to 1920 x 1200 (PC) / 1080p (HDTV)
- Supports Mac Products including MacBook, MacBook Pro, MacBook Air, Mac mini and Mac Pro
- Audio enabled (VC980)
- No software or driver installation needed

Specifications

	VC920	VC960	VC980
Video Input			
Interfaces	1 x Mini DisplayPort Male (White)	1 x Mini DisplayPort Male (White)	1 x Mini DisplayPort Male (White)
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)* *VC960 Only supports digital signal transmission.	1 x HDMI Type A Female (Black)
Video			
Max. Pixel Clock	165 MHz	165 MHz	165 MHz
Max. Resolution	Input: DP 1.2 up to 4096 x 2160 @ 60Hz (4:4:4) Output: up to 1920 x 1200	Input: up to 4096 x 2160 @ 60Hz (4:4:4) Output: up to 1920 x 1200	Up to 1920 x 1200
Compliance	DP 1.2	DP 1.2, DVI 1.1	DP 1.2, HDMI
Audio			
Output	N/A	N/A	1 x HDMI Type A Female Black
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Plastic	Plastic	Plastic
Weight	0.04 kg (0.09 lb)	0.05 kg (0.11 lb)	0.03 kg (0.07 lb)
Dimensions (L x W x H)	20.00 x 4.30 x 2.01 cm (7.87 x 1.69 x 0.79 in.)	20.00 x 4.30 x 2.01 cm (7.87 x 1.69 x 0.79 in.)	19.00 x 2.10 x 1.11 cm (7.48 x 0.83 x 0.44 in.)
Carton Lot	40 pcs	40 pcs	40 pcs

VC081A True 4K HDMI EDID Emulator Adapter





Features

- Manages EDID communication between connected devices
- Effectively learns the EDID from HDMI display and relays it to video source
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Superior Video Quality – up to 3840 x 2160 @ 60Hz (4:4:4)
- LED indicators to show device status
- Powered by HDMI source
- Compact and lightweight design

Specifications

	VC081A
Video Input	
Interfaces	1 x HDMI Type A Male (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Compliance	HDMI (3D, Deep Color, True 4K) HDCP 2.2 Compatible Consumer Electronic Control (CEC)
EDID Settings	**EDID Mode:** Default / Learning
Connectors	
Power	Bus-powered (5V DC from source device)
LEDs	
Status	Learning (Blue x 1)
Switches	
Mode Switch	EDID Learning
Power Consumption	DC5V: 0.1W
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)	4.40 x 2.40 x 1.18 cm (1.73 x 0.94 x 0.46 in.)
Carton Lot	20 pcs

VC010 VGA EDID Emulator with Programmer
VC060 DVI EDID Emulator with Programmer
VC080 4K HDMI EDID Emulator with Programmer

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Video In HDB-15 (VC010) | Video Out HDB-15 (VC010) | Video In DVI (VC060) | Video Out DVI (VC060) | A/V In HDMI (VC080) | A/V Out HDMI (VC080) | EDID | Wide Screen Support

VC010



VC060



VC080



Features

- Automatically manages EDID communication between connected devices
- EDID mode selection – Default, Learning, Programming
- EDID Wizard – allows a user an easy way to manage EDID settings
- Superior Video Quality – HDTV resolutions of 480i, 480p, 720i, 720p, 1080i, 1080p (1920 x 1080); VGA, SVGA, XGA, SXGA, UXGA and WUXGA (1920 x 1200)
- HDMI (3D, Deep Color), HDCP compliant (VC080)
- Hot-pluggable
- Firmware upgradable

Note: Please connect an external power cord to the video source if it is not supplied with enough power to function.

Specifications

	VC010	VC060	VC080
Video Input			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)	1 x HDMI Type A Female (Black)
Impedance	75 Ω	100 Ω	100 Ω
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)	1 x HDMI Type A Female (Black)
Impedance	75 Ω	100 Ω	100 Ω
Video			
Compliance	N/A	N/A	HDMI (3D, Deep Color) HDCP Compatible Consumer Electronic Control (CEC)
Audio			
Output	N/A	N/A	1 x HDMI Type A Female (Black)
EDID Settings	**EDID Mode:** Default / Learn / Programming (EDID Wizard support)	**EDID Mode:** Default / Learn / Programming (EDID Wizard support)	**EDID Mode:** Default / Learn / Programming (EDID Wizard support)
Connectors			
Power	1 x DC Jack	1 x DC Jack	1 x DC Jack
Power Consumption	DC5V: 0.11W	DC5V: 0.13W	DC5V: 0.17W
Environmental			
Operating Temperature	0 – 50 °C	0 – 50 °C	0 – 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.15 kg (0.33 lb)	0.15 kg (0.33 lb)	0.15 kg (0.33 lb)
Dimensions (L x W x H)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)	7.90 x 7.86 x 2.45 cm (3.11 x 3.09 x 0.96 in.)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)
Carton Lot	5 pcs	5 pcs	10 pcs
Included Accessories	1x RS-232 Configuration Cable; 1x USB to DC Power Cord		

2A-130G VGA EDID Emulator

Video In HDB-15 | EDID | Bus-Powered



Features

- Subsitutes as a monitor at the site where the computer / video source is located
- EDID Built-in – stores ATEN standard EDID information in device
- ATEN standard EDID support all popular resolutions
- Superior Video Quality - up to 1920 x 1200 @ 60Hz, 1366 x 768 @ 60Hz
- USB Powered – no need for an external power adapter
- No Software Required – eliminates incompatibility and installation issues; no need to configure

Specifications

	2A-130G
Connectors	
Video	1 x HDB-15 Male (Blue)
Power	1 x USB Type A Male
LEDs	
Power	1 (Green)
Video	1920 x 1200@60Hz 1366 x 768@60Hz
Cable Length	0.35 m
Power Consumption	DC5V: 0.1W
Environmental	
Operating Temperature	0 – 50 °C
Storage Temperature	-20 – 60 °C
Humidity	0 – 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Carton Lot	40 pcs

Compatible Splitters

Part No. / Spec.	Page No.
VS1204T, VS1208T, VS0116, VS0102, VS0104, VS132A, VS134A, VS138A, VS92A, VS94A, VS98A, VS82, VS84, VS132, VS102	6-11 8-12 8-13 8-14 8-16 8-17 8-18

Compatible Extenders

Part No. / Spec.	Page No.
CE800B, CE775, CE774, CE770, CE750A, CE700A, CE370, CE350, CE250A, VE156, VE157, VE172R, VE170R, VE170RQ, VE170, VE170Q, VE150A, VE200	For CE products. please refer to KVM Solutions + USB Peripherals Catalog CH6. 9-41 6-13 6-14 9-64 9-63, 9-65

CM1284

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

Console USB | Computers USB | Multi View | Expansion Daisy Chain | Expansion Cascade | Boundless Switching | Audio Mic. & Speaker | USB 2.0 Peripherals | VDS Video DynaSync



Front



Rear

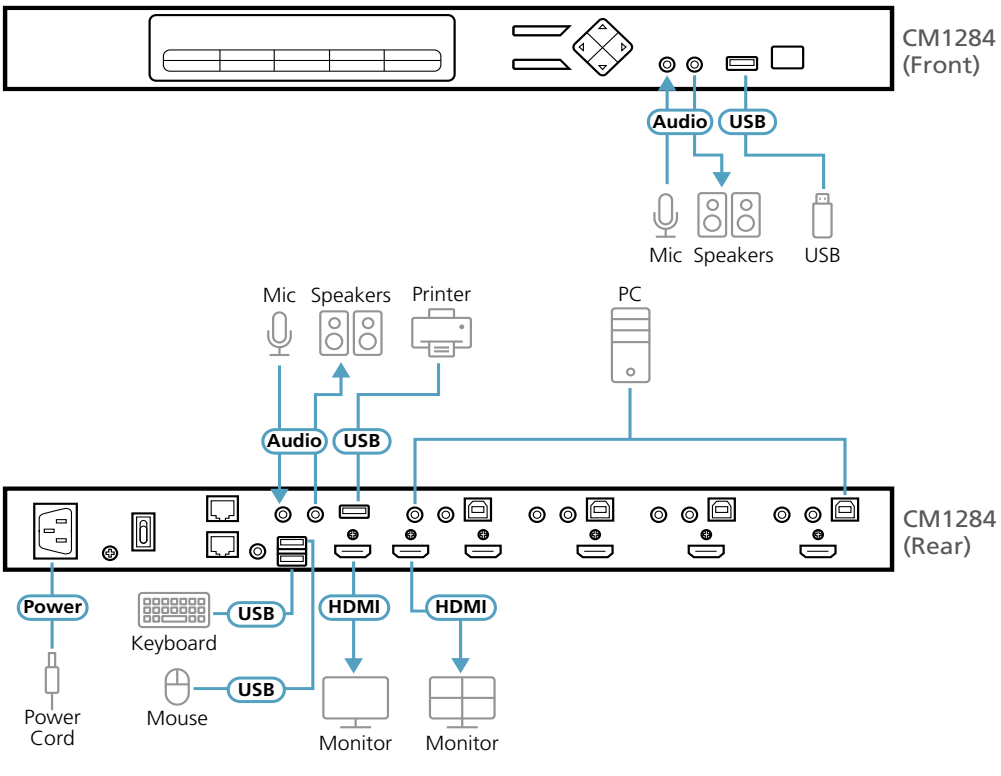


Features

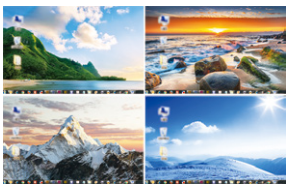
- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- Features dual output on console side – a multi-view output and a full screen output
- Easily resizes and / or 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, mouse[1], 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



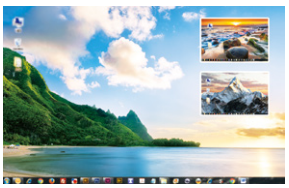
▶ Quad View displays all four computers / video sources on the display



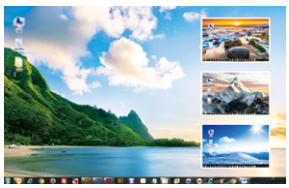
- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **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)	Refer to KVM Catalog 17-11
IR Extender Cable	2XRT-0003G	Refer to KVM Catalog 17-12

CM1164A

4-Port USB DVI Multi-View KVMP™ Switch

Console USB | Computers USB | DVI-D | Multi View | Expansion Daisy Chain | Expansion Cascade | Boundless Switching | Audio Mic. & Speaker | USB 2.0 Peripherals | VDS Video DynaSync



Front



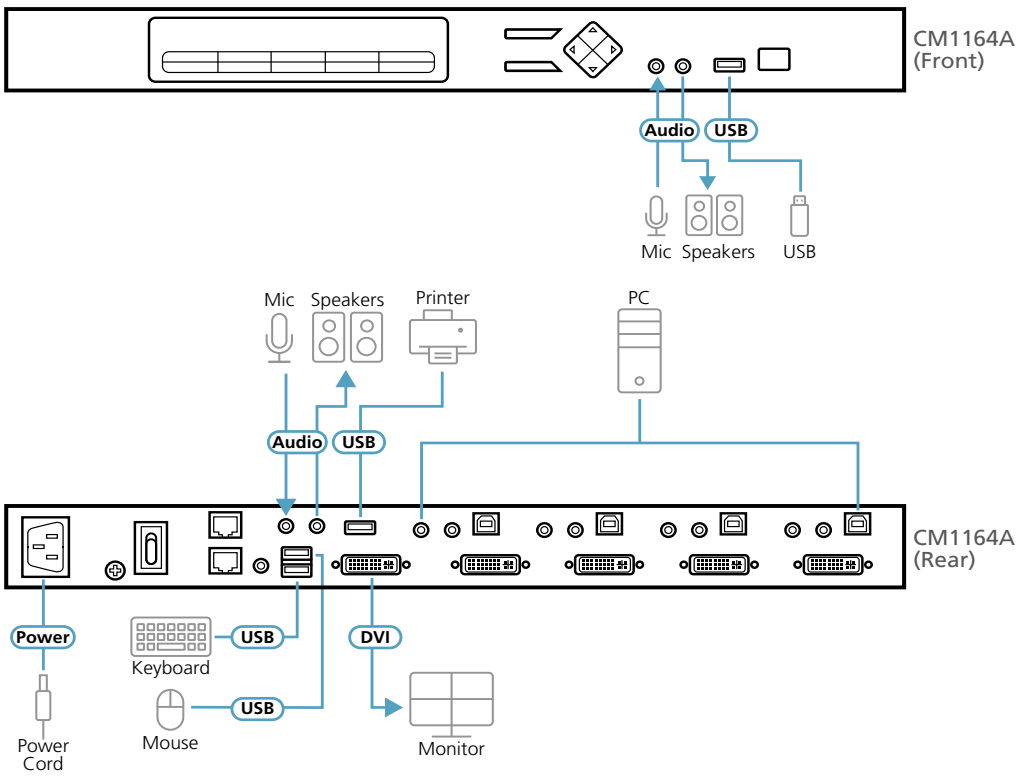
Rear



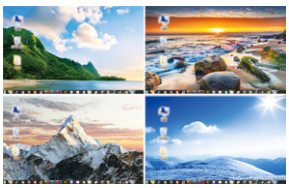
Features

- 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



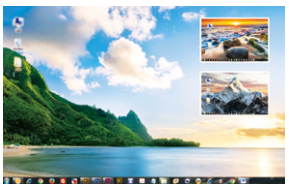
▶ Quad View displays all four computers / video sources on the display



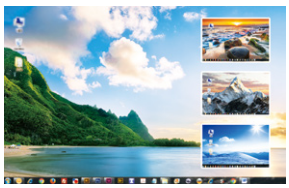
- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **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)	Refer to KVM Catalog 17-10
IR Extender Cable	2XRT-0003G	Refer to KVM Catalog 17-12

2L-2910 305M HDBaseT SF/UTP Cat 6 Cable

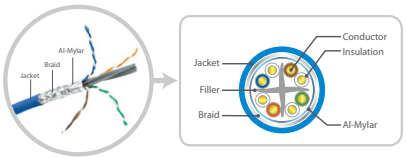
The 2L-2910 is a twisted-pair cable engineered for optimum signal transmission at resolutions up to 4K including digital and analog data, audio, and video applications. The cable supports sweep frequency up to 400 MHz and has been verified to meet performance requirements set by the HDBaseT Alliance.

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.







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	Polylefin (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 Througt 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	305m / 1000ft

2L-2801 305M Low Skew Cat 5e Cable

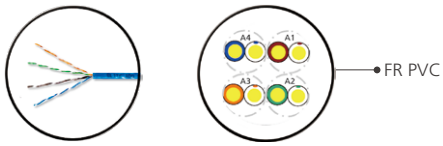
Analog video presents a high-quality image when the computer is directly connected to the monitor by short cables. "Skew" is the color phase and time errors that occur when R/G/B video signals are sent over long-distance Cat 5e cables, which can result in smeared, less sharp and color-fringed images. 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 Througt 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

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

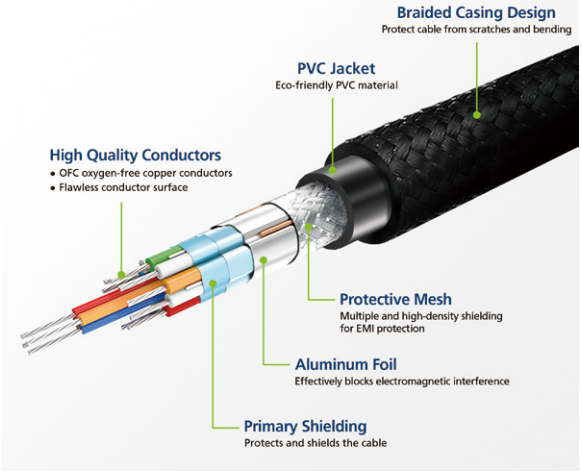
Enjoy Now Create a High-Quality Home Theater

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: Feature only available if linked devices are HDMI Ethernet Channel enabled

Specifications

	CA101	CA102	CA103
Max. Video Resolution	4096 x 2160 @ 60 Hz		
Physical Properties			
Cable Length	1.2 m	2 m	3 m
Cable Color	Black		
Cable Outer Dimension	6.0 ± 0.15 mm		
Conductor Gauge	30 AWG		
Conductor Material	Tinned Copper		
Connector Plating	Gold		
Connector Type	HDMI (19 pin) 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		

2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D05H-1 / 2L-7D10H / 2L-7D15H / 2L-7D20H

High Speed HDMI Cable with Ethernet (0.3, 0.6, 1, 2, 3, 5, 10, 15, 20 m)

ATEN High Speed HDMI Cable with Ethernet provides an uncompressed, all-digital interface for both audio and video signals. Our cables infuse high-quality copper wire to resist interference for improved image clarity. We offer HDMI cable at lengths of 1 to 20 meters with resolutions up to True 4K (4096 x 2160 @ 60Hz).

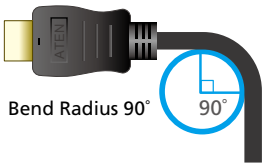




Features

- Superior video quality:
  - True 4K (4096 x 2160 @60Hz): 2L-7DA3H, 2L-7DA6H, 2L-7D01H, 2L-7D02H-1, 2L-7D03H, 2L-7D05H-1
  - 4K (4096 x 2160 / 3840 x 2160 @30 Hz): 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H
- HDMI Ethernet Channel functionality: additional dedicated data channel supports networking[1]
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Gold-plated connectors for reliable data transmissions
- Available in lengths from 0.3 to 20 m
- RoHS-compliant
- Bend Radius 90°[2]

Note:1. Feature only available if linked devices are HDMI Ethernet Channel enabled
2. Swings 100 times between angles of +/- 90 degrees, at a frequency of 13 times per minute



Specifications

	2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D05H-1 / 2L-7D10H / 2L-7D15H / 2L-7D20H
Video Resolution	4096 x 2160 @ 60Hz: 2L-7DA3H, 2L-7DA6H, 2L-7D01H, 2L-7D02H-1, 2L-7D03H, 2L-7D05H-1 4096 x 2160 @ 30Hz: 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H
Physical Properties	
Cable Length	0.3m, 0.6m, 1m, 2m, 3m, 5m, 10m, 15m, 20m
Cable Color	Black
Cable Outer Dimension	2L-7DA3H / 2L-7DA6H / 2L-7D01H: 6.0 ± 0.15mm; 2L-7D02H-1 / 2L-7D03H, 2L-7D05H: 6.0 ± 0.20mm 2L-7D05H-1 / 2L-7D10H: 8.0 ± 0.20mm; 2L-7D15H / 2L-7D20H: 10.0 ± 0.20mm
Conductor Gauge	2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L7D02H-1 / 2L-7D03H / 2L-7D05H: 30AWG 2L-7D5H-1 / 2L-7D10H / 2L-7D20H: 26AWG 2L-7D15H: 24AWG
Conductor Material	Tinned Copper
Connector Plating	Gold
Connector Type	HDMI (19 pin) Male to Male
Cable Shield Type	Aluminum Foil
Cable Jacket Type	PVC
Environmental	
Operating Temperature	80°C
Rating	UL VW-1 (Flame rate), CSA

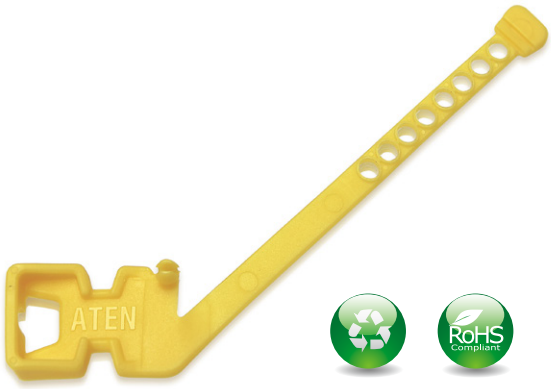
Cables

Images	Part No.	Length (m)	Interface	To PC / Source Interface	To Switch Interface	Compatible Products
	2L-7D03DD 2L-7D05DD 2L-7D10DD	3 5 10	DVI-D	DVI-D Male (Dual Link)	DVI-D Male (Dual Link)	All ATEN's DVI Devices
	2L-7D02V	1.8	DVI-D	DVI-D Male (Single Link) Audio Plug	DVI-D Male (Single Link) Audio Plug	VS172, VS174, VS162, VS164, VE600A, VE602, VE606, VE607, CE624, VM7604, VM8604
	2L-2402A	1.8	VGA	HDB-15 Male Audio Plug	HDB-15 Female Audio Plug	VS1204T, VS1208T, VM0404, VS0202, VS0201 / VS0401, VS0102 / VS0104 / VS0116, VE170, VE170Q, VE200, VC180, VE022
	2L-2401 2L-2403 2L-2406 2L-2410 2L-2420 2L-2440	1.8 3 6 10 20 40	VGA	HDB-15 Male	HDB-15 Female	All ATEN's VGA Devices
	2L-2502 2L-2503 2L-2505 2L-2510 2L-2515 2L-2520 2L-2530	2 3 5 10 15 20 30	VGA	HDB-15 Male	HDB-15 Male	All ATEN's VGA Devices
	2L-7D02DP 2L-7D03DP 2L-7D03DP-1 2L-7D04DP	2 3 3 4.6	DisplayPort	DisplayPort	DisplayPort	All ATEN's DisplayPort Devices
	2L-2801 (Shielded)	305	RJ-45	RJ-45	RJ-45	All ATEN's Cat 5 / 5e / 6 / 6a Devices for Video & Audio Communication
	2L-4101-GR 2L-4102-GR 2L-4103-GR 2L-4105-GR 2L-4110-GR 2L-4115-GR 2L-4120-GR	1 2 3 5 10 15 20	RJ-45	RJ-45	RJ-45	All ATEN's Cat 5 / 5e / 6 / 6a Devices for Data Communication
	2L-2910	305	RJ-45	RJ-45	RJ-45	All ATEN HDBaseT products

2X-EA12 LockPro™ - HDMI Cable Lock

ATEN LockPro™, the world's most effective universal HDMI cable lock.

LockPro™, an ATEN exclusive technology, was created to prevent signal loss by ensuring a durable connection between your HDMI cables and devices in a simple, one-piece design. Since most HDMI connectors do not have a locking mechanism, it's common for them to become detached or loosened and create intermittent up to complete signal loss - making cable lock solutions essential.



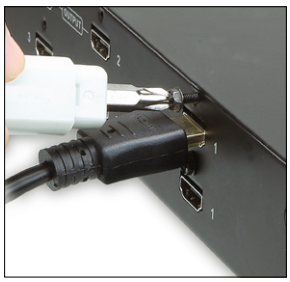
Features

- Innovative design improves stability and flexibility
- One-piece and reusable design for easy installation and removal
- Ensures strong and reliable HDMI cable connections
- Universal design for securing most cables (not limited to HDMI)
- Environmentally safe – RoHS compliant and recyclable
- Sold 10 pieces per pack

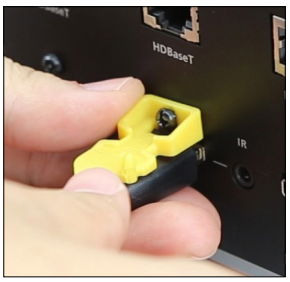
2X-EA12 Specifications

Function	2X-EA12
Storage Temperature	-20 – 60°C
Humidity	0-95% RH, Non-Condensing
Physical Properties	
Weight	1.4 g
Dimensions (L x W x H)	8.61 x 6.47 x 0.66 cm (3.39 x 2.55 x 0.26 in.)

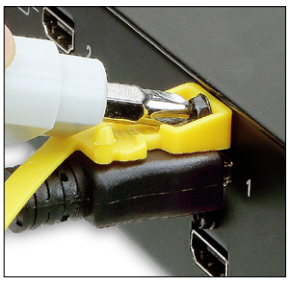
One-piece Design for Easy Installation



1 Loosen the screw above the port



2 Slide the LockPro™ over the loosened screw



3 Tighten the screw firmly



4 Wrap the LockPro™ around the cable



5 Fasten the LockPro™ strap

Accessories

Images	Part No.	Product Name.	Compatible Products
	2A-127G	DVI to HDMI Converter	Compatible with all models equipped with DVI interface
	2A-128G	HDMI to DVI Converter	Compatible with most models equipped with HDMI interface
	2L-5202B 2L-5203B 2L-5205B	Port Switching VGA Cable	VS0801A
	2XRT-0003G	IR Receiver Cable (38 KHz)	VP2730, VP2120, VP1421, VP1420, VP1920, VM6404HB, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA, VM0202HB, VM0202H, VM0404, VS0801HB, VS481C, VS481B, VS482B, VS0201 / VS0401, VE810, VE805R, CM1284, CM1164A, VE814AR / VE814AT, VS482
	2XRT-0003G-1	Full Range IR Receiver (30-56 KHz)	VE1843, VE2812R, VE814A, VE8952 / VE8950 / VE8900, VE816R, VE814AR/ VE814AT, VE2812AT VE1812, VE802, VE2812AEUT, VE2812AUST, VE805R, VE883, VE3912T, VE805R, VM7584, VM8584
	2XRT-0004G	Full Range IR Emitter (30-56 KHz)	VE1843, VE2812R, VE814A, VE8952 / VE8950 / VE8900, VE816R, VE814A, VE2812AT, VK2200, VK1200, VK2100A, VK1100A, VK236, VE802, VE810, VM7584, VM8584, VE805R, VE3912T, VE883, VE1812
	2XRT-0007G	IR Remote Control	VS0801H, VS0801A, VS0801HB
	2XRT-0010G	IR Remote Control	VS482B, VS482
	2XRT-0013G	IR Remote Control	CM1164A, CM1284
	2XRT-0101G	IR Remote Control	VS481A, VS481B, VS261 / VS461, VS0201 / VS0401, VS481C
	2XRT-0106G	IR Remote Control	VM6404HB, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA, VM0404, VM0202HB, VM0202H
	2XRT-0301G	IR Remote Control	VE200
	2XRT-0109G	IR Remote Control	VP1920
	2XRT-0110G	IR Remote Control	VP2730, VP3520
	2XRT-0111G	IR Remote Control	VP1420, VP1421
	2XRT-0112G	IR Remote Control	VP2120
	2X-020G	Mounting Kit	VM0404, VS0401
	2X-021G	Dual Rack Mounting Kit	VK1100A, VK1200, VE44PB
	2X-RC1700	Video Wall Rack	
	2X-027G	Mounting Kit	VM1600A

Accessories

Images	Part No.	Product Name.	Compatible Products
	2X-030G	TV Bracket Set (L+R)	VM0202HB, VM0202H
	2X-031G	Single Rack Mounting Kit	VE44PB, KE6900AiT/KE6940AiT, KE6920/KE6922, KE6900/KE6940, KE6900A/KE6940A, KE6910/KE6912, KE9950/KE9952, KE8950/KE8952
	2X-043G	Rack Mounting Kit	VP2730, VP1920
	2X-044G	Under Table Mounting Kit	VK1100A, VK2100A, VK1200, VP2730, VP2120, VP1421, VP1420, VP1920, CS17916, CS1768
	2X-049G	Rack Mounting Kit	VK1100A, VK1200, VP2120, VP1420, VP1421
	2X-050G	Table Mounting Kit	VE2812AEUT



Simply Better Connections

Product Catalog
Professional AV Solutions

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