

USB True 4K DisplayPort/HDMI Optical KVM Extender

CE980 / CE990

The ATEN CE980 / CE990 USB True 4K DisplayPort/HDMI Optical KVM Extenders ensure transmission of True 4K video, KVM and control signals over a single fiber optic cable, extending up to 10 km (CE990) / 300 m (CE980). Both models support HDR10 to deliver unparalleled True 4K video quality (3840 x 2160 @ 60 Hz 4:4:4 / 4096 x 2160 @ 60 Hz 4:4:4) with full color accuracy.

Thanks to a built-in DisplayPort / HDMI combo connector, the CE980 / CE990 allows for either HDMI or DisplayPort connection on both local and remote consoles, with video input and output selectable for flexible installation and mixed / matched display configurations between both ends. The CE980 / CE990 also extends keyboard / mouse control, RS-232, USB 2.0 data, and both stereo and embedded audio, including LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio, over fiber optic cabling. The privilege control function enables easy access management between local and remote consoles through an Auto/Local or Auto/Remote pushbutton, allowing flexible control switching based on operational requirements.

The CE980 / CE990 is perfect for applications that require high-quality, long-distance KVM operation extension, such as healthcare facilities, post-production, manufacturing, and more.



CE990L



CE990R



Front View

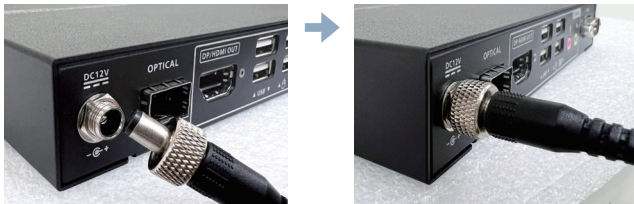


Rear View

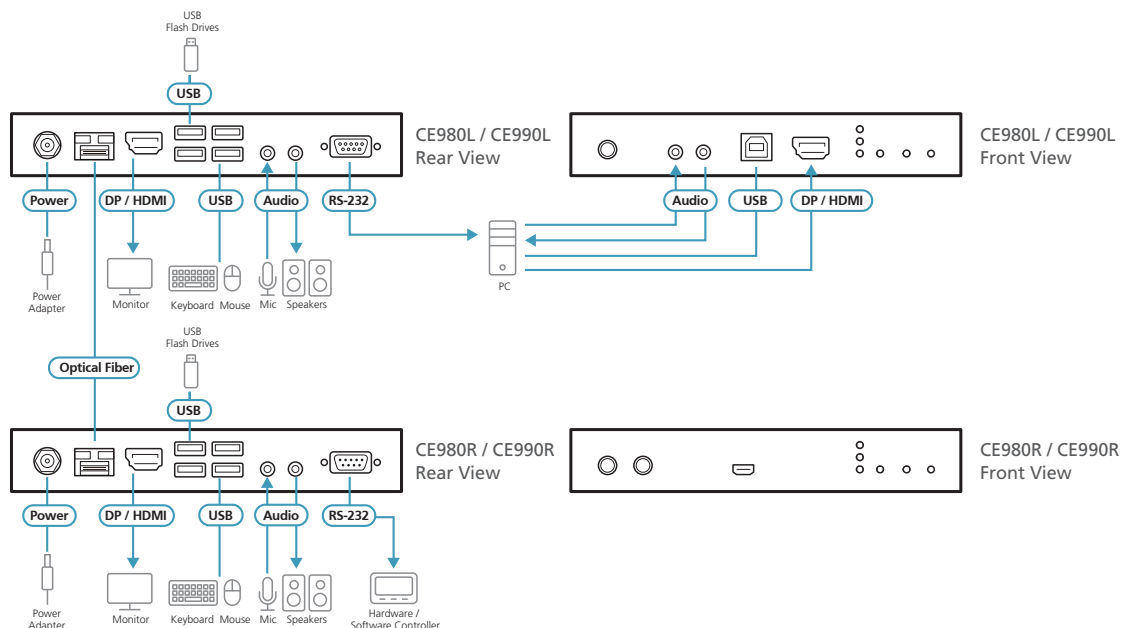


Features

- DisplayPort/HDMI combo connector supports both DisplayPort and HDMI video interfaces
- Extends DisplayPort/HDMI video, keyboard/mouse control, stereo/embedded audio, RS-232 control, and USB 2.0 signals over fiber optic cabling
- Ultra-long distance transmission up to 300m (CE980) or 10km (CE990)
- Supports True 4K video up to 4096 x 2160 / 3840 x 2160 @ 60 Hz (4:4:4) with HDCP 2.2/2.3 compliance
- Supports HDR10 for enhanced video quality
- Dual console operation – supports local and remote system control with configurable privilege modes (Auto/Local and Auto/Remote) for streamlined access management and operational efficiency
- USB 2.0 Hub – supports 2 ports for USB KB/MS and 2 ports for other USB peripherals
- Easily switch EDID priority between Local and Remote via hotkey
- Supports wide screen format
- Supports dual independent stereo audio – mic and speaker
- Supports lossless digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio
- Versatile SFP Modules – 2A-141G (300 m, multi-mode for CE980) and 2A-142G (10 km, single-mode for CE990) offer 10Gbps transmission via a single fiber cable
- 2X-EA17 HDMI Lock Pro for combo connector to secure HDMI cables to selected devices and prevent signal loss caused by the connector detaching
- PC wakeup function via a single pushbutton through RS-232 channel
- Plug-and-play operation with no software or driver required
- DC Jack with screw-lock ensures stable and secure connection



- Built-in 8KV/15KV ESD protection
- Rack-mountable
- Firmware upgradeable



Specifications

	CE980L	CE980R
Connectors		
Console Ports	4 x USB Type-A Female (White) 1 x DisplayPort/HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	4 x USB Type-A Female (White) 1 x DisplayPort/HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type-B Female (White) 1 x DisplayPort/HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	1 x bi-directional SFP+ (LC)	
Video		
Max. Resolution	Up to 4096 x 2160 @ 60Hz (4:4:4) / 3840 x 2160 @ 60Hz (4:4:4)	
LEDs		
Console Status	3 (Orange)	
Video Input	1 (Orange)	N/A
Video Output	N/A	1 (Orange)
Link	1 (Orange)	
Power	1 (Green)	
Switches		
Operation Mode Selection	1 x Pushbutton	
Wakeup PC	N/A	1 x Pushbutton
Fiber Optics		
Operating Distance	300 m with Multi-Mode (MM) fiber ¹	
Data Rate	Single fiber: 10 Gbps	
Power Consumption	DC 12V:11.89W	DC 12V:9.49W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-Condensing	
Physical Properties		
Housing	Metal	
Weight	0.84 kg	0.85 kg
Dimensions (L x W x H)	17.82 x 15.62 x 2.88 cm	

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 Multi Mode fibers that conform to IEC 11801 (OM3) specifications.
3. The Device is class 1 laser product. It meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.

Specifications

	CE990L	CE990R
Connectors		
Console Ports	4 x USB Type-A Female (White) 1 x DisplayPort/HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	4 x USB Type-A Female (White) 1 x DisplayPort/HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)
KVM Ports	1 x USB Type-B Female (White) 1 x DisplayPort/HDMI Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	
Unit To Unit	1 x bi-directional SFP+ (LC)	
Video		
Max. Resolution	Up to 4096 x 2160 @ 60Hz (4:4:4) / 3840 x 2160 @ 60Hz (4:4:4)	
LEDs		
Console Status	3 (Orange)	
Video Input	1 (Orange)	N/A
Video Output	N/A	1 (Orange)
Link	1 (Orange)	
Power	1 (Green)	
Switches		
Operation Mode Selection	1 x Pushbutton	
Wakeup PC	N/A	1 x Pushbutton
Fiber Optics		
Operating Distance	10 km with Single-Mode (SM) fiber ¹	
Data Rate	Single fiber: 10 Gbps	
Power Consumption	DC12V:11.89W	DC12V:9.49W
Environmental		
Operating Temperature	0 – 40°C	
Storage Temperature	-20 – 60°C	
Humidity	0 – 80% RH, Non-Condensing	
Physical Properties		
Housing	Metal	
Weight	0.84 kg	0.85 kg
Dimensions (L x W x H)	17.82 x 15.62 x 2.88 cm	

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 Single Mode fibers that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications.
3. The Device is class 1 laser product. It meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11.

ATEN International Co., Ltd.

3F., No.125, Sec. 2, Datung Rd., Sijhih District., New Taipei City 221, Taiwan
 Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
 www.aten.com E-mail: marketing@aten.com

Product information is subject to change without prior notice.

Released: 06/2025 V1.0

© Copyright 2025 ATEN® International Co. Ltd.
 ATEN and the ATEN logo are registered trademarks of ATEN International Co., Ltd.
 All rights reserved. All other trademarks are the property of their respective owners.

