

## CE990

USB True 4K DisplayPort/HDMI Optical KVM Extender (True 4K @ 10 km)



The ATEN CE990 USB [True 4K](#) DisplayPort/HDMI Optical [KVM Extenders](#) ensure low-latency transmission of [True 4K](#) video and control signals up to 10 km over a single fiber optic cable. With the support for [True 4K](#) resolution (4096 x 2160 @ 60 Hz 4:4:4) and [HDR 10](#), the [CE980](#) delivers unparalleled video quality and full color accuracy.

Featuring a built-in DisplayPort/HDMI combo connector, the CE990 enables HDMI and DisplayPort connections on both local and remote consoles, with selectable video input/output for a flexible installation with mix and match display configurations between both ends. Along with keyboard, mouse, and video control, the CE990 also extends RS-232, USB 2.0 peripheral data, and stereo audio signals over a fiber optic cable. The privilege control function makes possible easy access management between local and remote consoles through Auto/Local/Remote pushbuttons, allowing flexible control switching based on operational requirements.

With robust capabilities and support for multiple signal transmissions over ultra-long distances, the CE990 is perfect for applications requiring high-quality, long-distance KVM operation extension, such as control rooms, healthcare facilities, post-production, manufacturing, and more.



### Specifications

Function	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)	1 x DC Jack (Black)
Unit To Unit	1 x bi-directional SFP+ (LC)	1 x bi-directional SFP+ (LC)
LEDs		
Console Status	3 (Orange)	3 (Orange)
Video Input	1 (Orange)	N/A
Video Output	N/A	1 (Orange)
Link	1 (Orange)	1 (Orange)
Power	1 (Green)	1 (Green)
Switches		
Operation Mode Selection	1 x Pushbutton	1 x Pushbutton
Wakeup PC	N/A	1 x Pushbutton
Fiber Optics		
Operating Distance	10 km with Single Mode (SM) fiber (*Note)	10 km with Single Mode (SM) fiber (*Note)
Data Rate	Single fiber: 10 Gbps	Single fiber: 10 Gbps
Power Consumption	Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.	Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
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	TBD	TBD
Dimensions (L x W x H)	TBD	TBD
Note	<p>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.</p> <p>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.</p> <p>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.</p>	<p>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.</p> <p>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.</p> <p>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.</p>
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	

**ATEN International Co., Ltd.**

3F, No.125, Sec. 2, Datong 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



© Copyright 2015 ATEN® International Co., Ltd.  
ATEN and the ATEN logo are trademarks of ATEN International Co., Ltd.  
All rights reserved. All other trademarks are the property of their respective owners.