Simply Better Connections

CE680

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

The CE680 is a DVI Optical KVM Extender that overcomes length restrictions of standard DVI cables by using fiber optics to send high definition audio, video and control signals over longer distances. The CE680 can transmit KVM DVI signals very long distances - up to 600 m away from the source. The extender takes audio/video streams from the local source and serializes the data to pass it over a single 3.125 Gbps optical link, for resolutions up to 1920 x 1200 @ 60Hz, 24-bits, with picture perfect quality.

In addition to extending keyboard and mouse control, the CE680 also transfers RS-232 signals (up to 115 kbps) and USB signals in both directions, with ports for both, allowing you to connect serial devices, such as barcode scanners; or USB devices such as touchscreens, which can provide access to a computer connected at the local site - up to 0.4 miles (600 m) away.

The CE680 allows access to a computer from both the local and remote consoles (USB keyboard, monitor, and mouse). Furthermore, the CE680 takes advantage of the newest fiber optic cable technology to connect the local and remote units; providing easy installation and a very long 0.4 miles (600 m) extension of KVM DVI signals.

Features

- Allows access to a computer or KVM installation from a local / remote console
- Supports DVI-D interface and allows transmission of DVI single-link signals
- Superior video quality of up to 1920 x 1200 @ 60 Hz (24-bits) - get an excellent, crisp image on your screen over long distance transmissions up to 1968 ft. (600 m)*
- Touchscreen support - connect a generic touchscreen, including devices up to 10-point multi-touch, to accommodate highly interactive applications (no extra drivers needed)
- Dual console operation - control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- Uses one fiber optic cable to connect the local and remote units
- HDCP compatible
- RS-232 serial port - connect to a serial terminal, or serial devices such as barcode scanners (Baud Rate up to 115200 bps)
- PC Wakeup support - use a pushbutton on a Remote Unit to wake a PC at the local site via RS-232
- Audio Enabled - supports stereo speakers and microphone
- Rack mountable

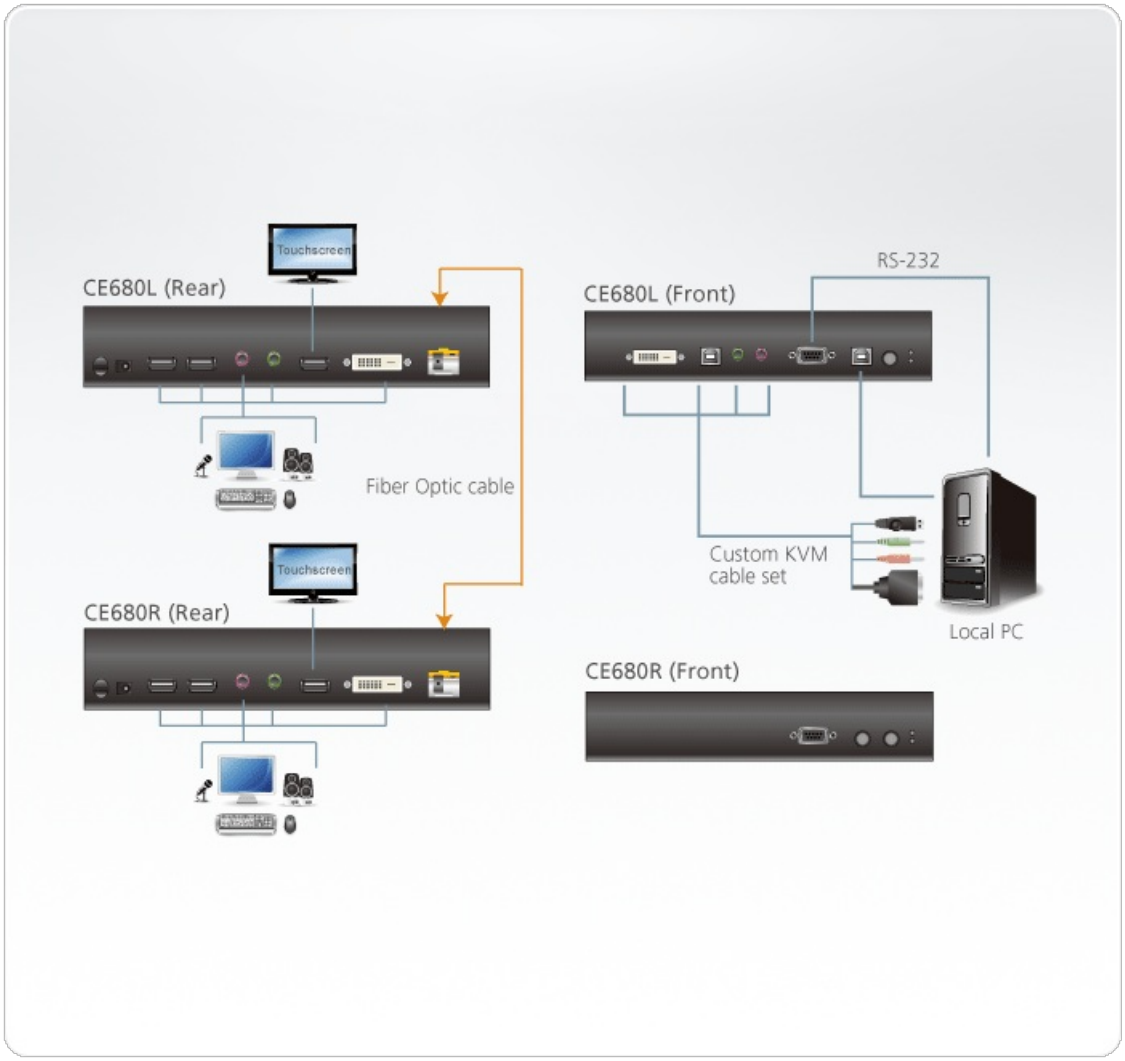
Specification

Function	CE680L	CE680R
Connectors		
Console Ports	3 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	3 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)

KVM Ports	2 x USB Type B Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
Video		
Max. Resolution	up to 1920 x 1200 @ 60Hz (24-bits)	up to 1920 x 1200 @ 60Hz (24-bits)
LEDs		
Local	1 (Green)	N/A
Remote	1 (Green)	1 (Green)
Link	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	600 m with (SM) fiber	600 m with (SM) fiber
Wavelength	1310/1550 nm for SM	1310/1550 nm for SM
Data Rate	Single fiber: 3.125G bps	Single fiber: 3.125G bps
Power Consumption	DC5.3V:6.74W:38BTU/h 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.	DC5.3V:5.56W:32BTU/h 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	0–50°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	1.10 kg (2.42 lb)	1.10 kg (2.42 lb)

Dimensions (L x W x H)	21.50 x 16.33 x 4.18 cm (8.46 x 6.43 x 1.65 in.)	21.50 x 16.29 x 4.18 cm (8.46 x 6.41 x 1.65 in.)
Note	1. CE680 is available work with OM3 Multi-Mode fiber, transmission distance is up to 300 m [980ft] . 2. Operating distance is approximate. These are typical maximum distance that may vary depending on factors such as fi ber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.	1. CE680 is available work with OM3 Multi-Mode fiber, transmission distance is up to 300 m [980ft] . 2. Operating distance is approximate. These are typical maximum distance that may vary depending on factors such as fi ber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	

Diagram



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

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