

CE690

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



The CE690 is a DVI Optical KVM Extender that overcomes the length restrictions of standard DVI cables by using fiber optics to send high definition audio, video and control signals over long distances. The CE690 can transmit KVM DVI signals extremely long distances - up to 20 km 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 CE690 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 20 km away.

The CE690 allows access to a computer from both the local and remote consoles (USB keyboard, monitor, and mouse). Furthermore, the CE690 takes advantage of the newest fiber optic cable technology to connect the local and remote units; providing easy installation and an extremely long 20 km 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 20 km*
- [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	CE690L	CE690R
Connectors		
Console Ports	3 x USB Type A Female (White) 1 x DVI-D Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink)	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	20 km with (SM) fiber	20 km 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	1.12 kg (2.47 lb)	1.12 kg (2.47 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	Operating distance is approximate. These are typical maximum distance that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.	Operating distance is approximate. These are typical maximum distance that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	

Diagram

