advanced media technologies®

MODEL

VX-1DVI

DVI VIDEO FIBER OPTIC EXTENDER

opticomm emcore empower with light™

Features

- Extends DVI-D video resolutions up to 1920x1200 and 1080p 60Hz
- True Plug & Play - Passes CEC, EDID & HDCP, No EDID Learning Necessary
- Diagnostic LED for power and fiber communication status
- HDCP V1.2 compliant. HDCP over DVI
- Singlemode operation up to 6 .2 mi (10 km)
- Multimode operation up 1,000 ft (305m using OM3 fiber)
- Uses low profile LC optical connector
- Transmitter powered via pin 14 of graphics card

Applications

- Medical OR Integration / Endoscopy
- Airport / Train / Information Displays
- Digital Signage / Video Walls
- Classrooms
- Home theater
- Hotel in-room entertainment centers

Uncompressed DVI Video over One Optical Fiber

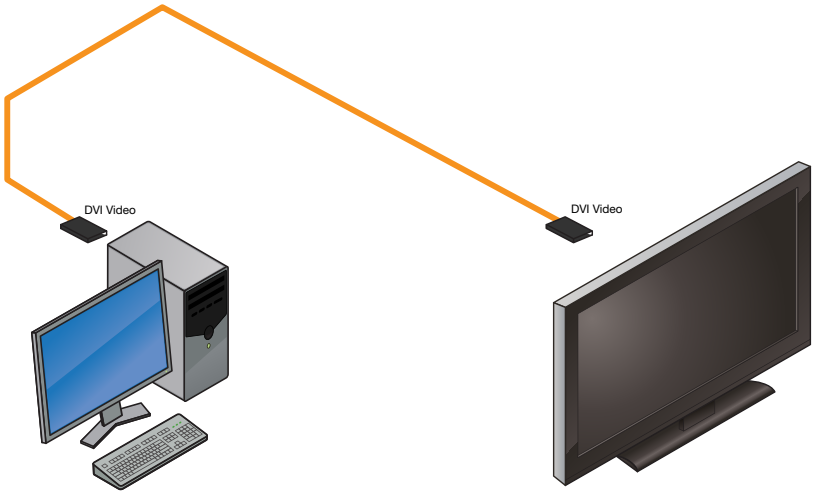
The VX-1DVI optical extender is a single fiber DVI extender that can send one channel of DVI video up to 6.2 miles (10 km). The extender is a low profile unit that transports over standard multimode or singlemode fiber using LC type optical connectors for a secure cable connection. LC connectors are the smallest and most widely used type. This allows the easiest installation possible through conduit or wall/ceiling mounted boom arms.

Graphic resolutions up to 1920x1200 and video resolutions up to 1080p 60Hz are possible over a single fiber. DVI video can be extended out to 6 miles without the need for distribution amplifiers, cable equalization or in-line repeaters that are normally associated with copper cable extension. The VX-1DVI is the most economical solution for sending a single channel of digital video over long distances.

True Plug & Play with HDCP

No more EDID learning or blanked out screens! Critical EDID information is read directly from the monitor and passed to the graphics card via the duplex data channel. The VX-1DVI can work on any digital display and provide resolutions up to 1920x1200. The VX-1DVI is also HDCP compliant allowing the exchange of keys between the source and display. Copyrighted material can be sent over the fiber link.

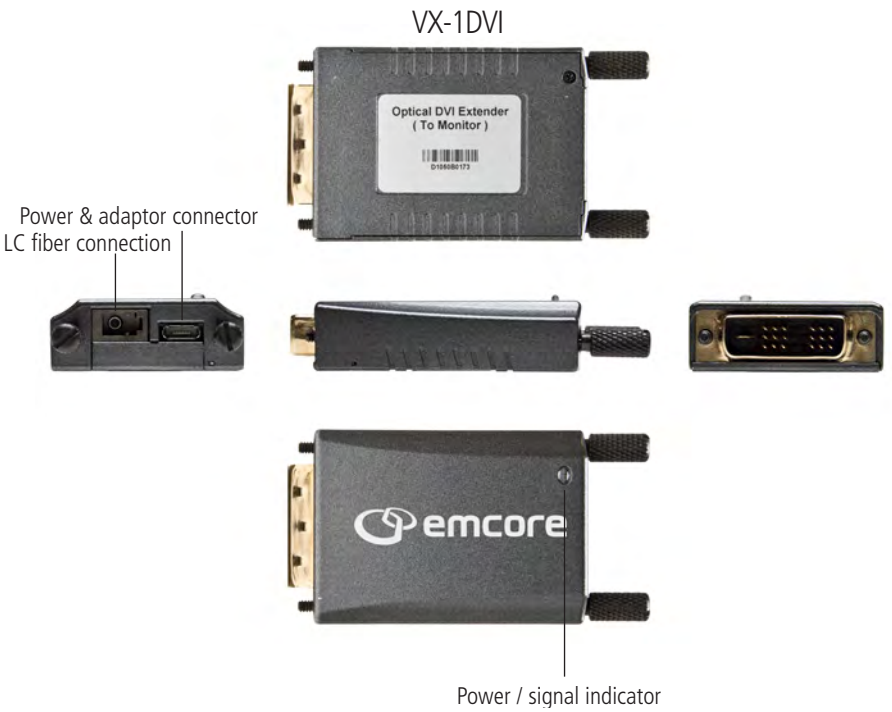
System Diagram



Ordering Information

Models	Description
VX-1DVI-XMT-MM-LC	Multimode DVI transmitter with power supply
VX-1DVI-RCV-MM-LC	Multimode DVI receiver with power supply
VX-1DVI-LINK-MM-LC	Multimode DVI extender set with power supplies
VX-1DVI-XMT-SM-LC	Singlemode DVI transmitter with power supply
VX-1DVI-RCV-SM-LC	Singlemode DVI receiver with power supply
VX-1DVI-LINK-SM-LC	Singlemode DVI extender set with power supplies

Connection Diagram



Video

Specifications	Values
Standard	DVI standard resolutions up to WUXGA
HDCP Compliance	v1.2
EDID	Plug & Play
Max Resolution	PC - 1920 x 1200 HDTV - 1080p @ 60Hz
Color Depth	24-bit
Connector Type	Single Link DVI-D 18 pin (male)

Optical

Specifications	Values
Fiber Type	Singlemode or Multimode
Connector Type	LC
Data Channels	(1) Duplex & (2) one way, all high speed
Data Rate	6.25 Gbps
Loss Budget	<12 dB
Distance	Multimode up to 1,000ft (305m using OM3 fiber) Singlemode up to 6mi (10Km)

General

Specifications	Values
Dimensions (L x W x H)	1.54" x 2.17" x 0.57" 39mm x 55mm x 14.5mm
Operating Temperature	0˚ to +50˚C
Storage Temperature	20˚C to +85˚C
Humidity	10 to 90% (non-condensing)
Input Voltage	5 VDC
Power Consumption	<2W Max.
Housing Construction	2-Part Metal Enclosure
Monitoring	LED on TX & RX Rapid flash - Boot up Slow flash - Fiber disconnected Steady on - Link established
Warranty	1 Year

Compliance (pending)

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