



Features

- Extends HDMI / DVI, Audio, RS232 & DDC/ HDCP up to 2km on Single mode fiber, 200m on Multi-mode fiber
- Selectable Audio: RCA, SPDIF (Optic) or SPDIF (Coaxial)
- Serial control data: RS232 with 9-pin D-sub
- Video: WUXGA (1920X1200), 24-bit color and 60Hz refresh rate for DVI and 1080p for HDMI
- Single mode or multi-mode LC fiber optic cable
- Complies with DDC2B/HDCP
- Dimensions: (W/D/H): 130 x 260 x 31 mm
- Power supplies included

Applications

- Professional audio visual installations
- Home theater connectivity
- Public digital signage displays
- Airport/Train/Other mass-transit facilities
- Medical / distance learning theaters

Fiber Extension of DVI or HDMI, Audio and Serial Data

The VX-1DVI-AD Multimedia optical extender offers long-distance transport of DVI or HDMI, Audio and Serial Data up to 2 km. The VX-1DVI-AD fiber extenders are perfect for applications where High Resolution graphics, audio and serial data are needed. The extension of the DVI or HDMI over fiber guarantee's lossless image quality of High Resolution graphics (1920x1200, WUXGA) up to 2 Km's or HD video (1080P) up to 200 meters.

The VX-1DVI-AD multimedia transport link utilizes only 4 fibers for the transmission of all 3 media types, plus the VX-1DVI-AD also transports the DDC channel as well as HDCP information over the fiber. In addition, the VX-DVI-AD supports the transmission of 3 different audio types, analog audio with RCA connectors, SPDIF optical and SPDIF coax. The RS-232 serial data can be used for controlling various types of audio-visual equipment such as the Emcore VX series DVI or HDMI matrix routers.

System Design

The VX-1DVI-AD transmitting device is installed near the remote computer or High Definition source and is connected to the DVI or HDMI, Audio and Serial ports of the computer or High Definition sources. The VX-1DVI-AD Receiver is located near the High Definition Display or projector and is connected to the display, speakers and serial controller. The system operation takes place through the connection of a 4 pair fiber cable with LC connections. Once the system is connected through the fiber it is ready to display crystal clear HD, 1080P video or WUXGA graphics with crisp high quality audio and serial control.

Ordering Information

Transmitter	Receiver
VX-1DVI-AD/XMT-LC	VX-1DVI-AD/RCV-LC

Optical Specifications

Transmitter (XMT) Specification	Minimum	Typical	Maximum	Units
Optical Wavelength		1310/1550		nm
Optical Output Power	-11	-9	-7	dBm
Receiver (RCV) Specification	Minimum	Typical	Maximum	Units
Receiver Sensitivity	-19		-3	dBm
Optical Budget		16		dB
Shared Specifications	Minimum	Typical	Maximum	Units
Fiber Type		Multimode / Singlemode		
Range (Multimode Fiber)	0	200		m
Range (Singlemode Fiber)	0	2000		m
Optical Connector		(2) Dual-LC (4 Fibers)		

Rear Panel



Video

Specifications	Values
Standards	VESA Video Resolutions Auto-EDID Display Information
Graphic Resolution	1920 x 1200 @ 60 Hz (max)
Color Depth	24-bit
Connector	DVI-D
Signal	Digital TMDS (DVI 1.0 Compliant) Digital RGB
Compliance	HDCP DDC2B for EDID (up to 200m) Smart DDC (up to 2km)

Audio

Specifications	Values
Audio Formats	Digital or Analog
Signal Coding	24-bit
Connector	(2) RCA, SPDIF (optical), SPDIF (coax)

Data

Specifications	Values
Protocol	RS-232
Data Rate	250 Kbps
Connector	9-pin D-SUB

General

Specifications	Values
Dimensions (L x W x H)	2.72" x 1.54" x 0.59" 69.0 x 39.0 x 15.0 mm
Operating Temperature	-0° to +50°C
Storage Temperature	-10°C to +85°C
Humidity	5 to 85% non-condensing
Input Voltage	5 VDC
Power Consumption	0.9 - 1.3 Watts

Compliance

