

OTX-1DVI-SD

DVI Video, RS-232, Stereo Audio Fiber Optic Extender



Features

- Extends DVI-D video resolutions up to 1920x1200 and 1080p/60Hz
- Extends analog stereo audio along with video and serial data
- Compatible with VX Pro Series of Transmitters and Receivers
- Fits Optiva enclosures
- 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
- Multimode operation up 305 m using OM3 fiber
- Singlemode operation up to 10 km
- Uses low profile LC optical connector
- Transmitter powered via pin 14 of graphics card

Applications

- Command and Control Centers
- Medical OR Integration / Endoscopy
- Airport / Train / Information Displays
- Digital Signage / Video Walls
- Classrooms

Uncompressed DVI, Audio and RS-232 Over One Optical Fiber

The OTX-1DVI-SD optical extender is a single fiber DVI extender that can send 1 channel of DVI video, 1 channel of serial data and 2 channels of analog audio up to 10 km, without the need for distribution amplifiers, cable equalization or in-line repeaters that are normally associated with copper cable extension.

The extender is an insert card that transports over standard multimode or singlemode fiber using LC type optical connectors for a secure cable connection. Graphic resolutions up to 1920x1200/60Hz and video resolutions up to 1080p/60Hz are possible over a single fiber.

The OTX-1DVI-SD Tx and Rx are compatible with the VX Pro Series of modular transmitters and receivers, providing the needed flexibility for applications requiring both modular insert cards and stand-alone modules.

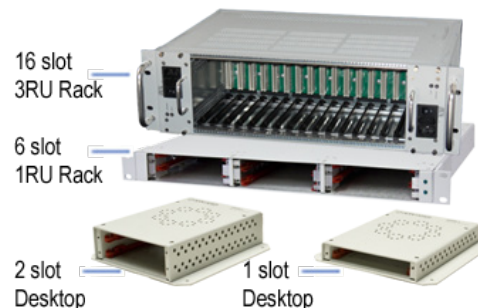
Compatible with
VX Pro Series
Tx or Rx



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 OTX-1DVI-SD can work on any digital display and provide resolutions up to 1920x1200. The OTX-1DVI-SD is also HDCP compliant allowing the exchange of keys between the source and display. Copyrighted material can be sent over the fiber link.

Enclosure Options



OTX-1DVI-SD

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Models

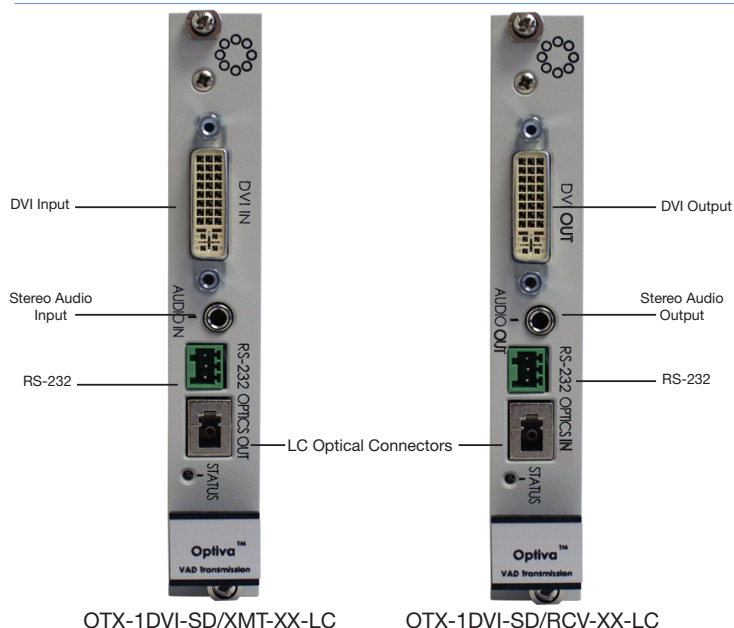
DVI Unit Transmitter	DVI Unit Receiver
OTX-1DVI-SD/XMT-XX-LC	OTX-1DVI-SD/RCV-XX-LC

- When ordering replace "XX" with one of the Fiber Type Options
- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation
- Standard connection type is UPC
- Multimode TX must be used with multimode RX and singlemode TX must be used with singlemode RX

Optical Specifications

Fiber Type "XX"	Wavelength (nm)	Data Rate	Optical Budget (db)	Distance (km)	Connector
MM	850/1310/1550	6.25 Gbps	<12	0.3	LC
SM	1490/1550/1310	6.25 Gbps	<12	10	LC

Connection Diagram



General

Specifications	Values
Dimensions (Insert Card)	6.3"D x 0.8"W x 4.0"H
Weight	11 oz.
Operating Temperature	0° to +50°C
Storage Temperature	20°C to +85°C
Humidity	10 to 90% (non-condensing)
Power Consumption	<2W Max.
Monitoring	LED on TX & RX Rapid flash - Boot up Slow flash - Fiber disconnected Steady on - Link established
Warranty	3 Years

Video

Specifications	Values
Standards	DVI standard resolutions up to WUXGA
Resolutions	(see chart on front side)
Connector Type	Single Link DVI-D (18 pin male)
HDCP Compliance	v1.2
EDID	Plug & Play
Color Depth	24-bit

Audio

Specifications	Values
Inputs/Outputs	Unbalanced audio 2 channel (1L/1R)
Channels	24-Bit Dual Channel
Impedance	47k Ohm Unbalanced
Audio Levels	700 mVrms (maximum)
Frequency Response	20 Hz to 20 KHz (±0.1 dB)
Signal-to-Noise Ratio	> 80 dB @ 1KHz
Total Harmonic Distortion	< 0.1% @ 1KHz
Crosstalk	>70dB @ 10KHz
Connector Type	3.5mm Stereo Headphone Jack

Data

Specifications	Values
Serial Data	1 Channel RS-232
Connector Type	Terminal block (3 pin)

Compliance (Pending)

