

OTX-1HDMI-IR

HDMI with IR and RS-232 Fiber Optic Extender



DATASHEET FIBER OPTICS



Features

- Extends HDMI 1.4b with HDCP V1.2
- Supports RS-232 control via bidirectional data channel
- Supports IR control
- Supports resolutions from HD 1080p to 4K/ UHD 3840x2160/30Hz
- Compatible with VX Pro Series of modular transmitters and receivers up to 1920x1200
- Fits Optiva enclosures
- True Plug & Play - Passes HDCP, EDID & CEC
- No EDID Learning Necessary
- Diagnostic LED for power and fiber communication status
- Singlemode operation up to 10 km
- Multimode operation up 305 meters using OM3 fiber
- Uses low profile LC optical connector

Applications

- Medical OR Integration / Endoscopy
- Airport / Train / Information Displays
- Digital Signage / Video Walls
- Classrooms

Uncompressed HDMI Video, IR and RS-232 Over One Optical Fiber

The OTX-1HDMI-IR is a single fiber extender that can send 1 channel of HDMI 1.4b with IR control over long or short distances, up to 3840x2160/30Hz. The card uses an LC optical connector for a secure cable connection.

The card allows for extension of HDMI without the need for distribution amplifiers, cable equalization or in-line repeaters that are normally associated with copper cable extension.

The OTX-1HDMI-IR Tx and Rx are compatible with the VX Pro Series of modular transmitters and receivers, up to 1920x1200 resolution, providing flexibility for applications requiring both modular insert cards and stand-alone modules.

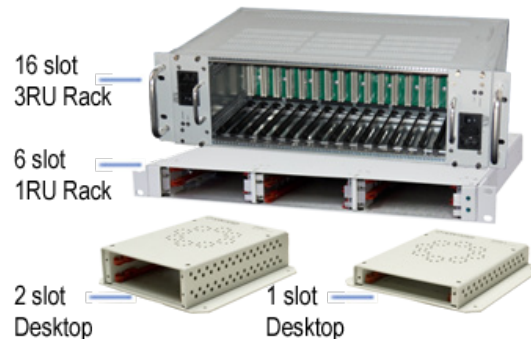
Compatible with
VX Pro Series
Tx or Rx



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-1HDMI-IR is HDCP compliant allowing the exchange of keys between the source and display. Copyrighted material can be sent over the fiber link.

Enclosure Options





Models

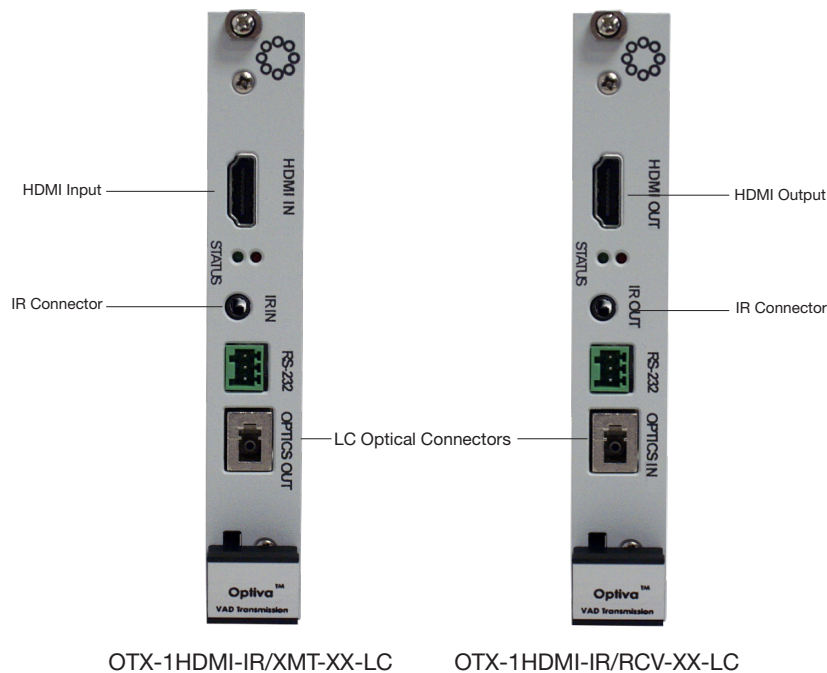
DVI Unit Transmitter	DVI Unit Receiver
OTX-1HDMI-IR/XMT-XX-LC	OTX-1HDMI-IR/RCV-XX-LC

- When ordering replace "XX" with one of the Optical Codes
- 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

Optical Code "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
HDMI Compliance	1.4b
HDCP Compliance	V1.2
EDID	Plug & Play
Color Depth	24-bit
Resolutions Supported	HD up to 1080p, 4K/UHD up to 3840x2160/30Hz

Audio

Specifications	Values
Embedded Digital Audio	Supported on the HDMI stream

Data

Specifications	Values
Data Type	Serial via IR Connection
Connector Type	2.5mm barrel type (female)

Compliance (Pending)

