

OTX-1HDMI-IR

HDMI with IR Fiber Optic Extender



Features

- Extends HDMI video resolutions up to 1080p 60Hz and graphic resolutions up to 1920x1200
- Compatible with VX Pro Series of Transmitters and Receivers
- Fits Optiva enclosures
- HDMI 1.3a compliant
- HDCP V1.2 compliant
- True Plug & Play - Passes HDCP, EDID & CEC.
- No EDID Learning Necessary
- IR extension via duplex data channel
- 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 Data Over One Optical Fiber

The OTX-1HDMI-IR optical extender is a single fiber DVI extender that can send 1 channel of HDMI and 1 channel of IR serial data 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 and video resolutions up to 1080p/60Hz are possible over a single fiber.

The OTX-1HDMI-IR 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.

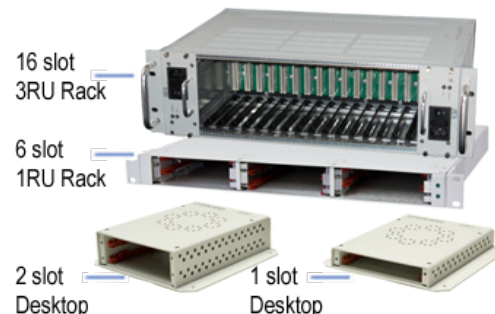
Compatible with
VX Pro Series
Tx or Rx



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-1HDMI-IR can work on any digital display and provide resolutions up to 1920x1200. The OTX-1HDMI-IR 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-1HDMI-IR

HDMI with IR Fiber Optic Extender

Models

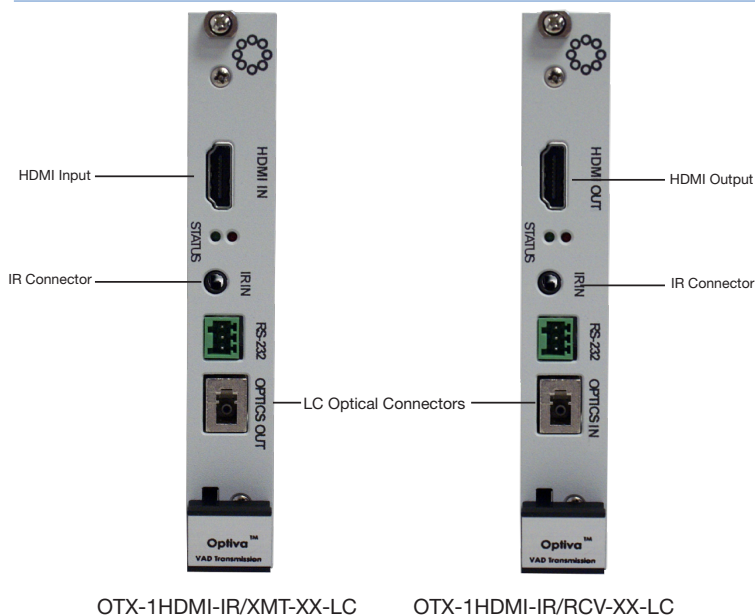
DVI Unit Transmitter	DVI Unit Receiver
OTX-1HDMI-IR/XMT-XX-LC	OTX-1HDMI-IR/RCV-XX-LC

- When ordering replace "XX" with one of the 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
HDMI Compliance	1.3a
HDCP Compliance	v1.2
EDID	Plug & Play
Color Depth	24-bit

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)

