

OTC-1HDMI-IR

Ultra HD HDMI Transport Link Over CATx with IR Extender



Features

- Extends HDMI 1.4b with HDCP V1.2
- Uncompressed HDMI with IR control over CAT5e/6 up to 100 meters with HDBaseT
- Supports resolutions from HD 1080p to 4K/ UHD 3840x2160/30Hz
- Supports embedded digital audio
- Supports format conversion, over the copper, in conjunction with the OTC Series
- Supports CAT5e, Cat6, CAT6a, CAT7, UTP / STP or FTP cables
- 3-Year warranty

Applications

- Digital signage / remote kiosks
- Command and control centers
- Digital cinema
- Conference rooms
- Live events
- Houses of worship

HDMI, Embedded Audio, IR & HDBaseT over CAT5e/6

The Optiva OTC-1HDMI-IR provides for transmission of 1 channel of HDMI 1.4b with IR control, up to 100 meters on a single CAT5e/6 cable, for resolutions up to 3840x2160/30Hz. They also provide daisy-chaining capabilities for multi-drop digital signage applications up to 100 meters point-to-point between displays. In addition, our innovative Optiva system was designed to allow format conversion, such as HDMI to 3G HD-SDI/HD-SDI/SDI or DVI, over the copper.

The Optiva line of products also includes insert cards for up to 16 channels of multiplexing / demultiplexing, 16x16 matrix switching, optical add/drop, as well as remote system monitoring.

System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19"

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rackmount enclosures (Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. Also available in the rackmount form factor is our 1RU enclosure (Model: OT-CC-6-1U) which can accommodate six insert cards and utilizes two 60 watt power supplies. For desktop or wall mounting applications there are one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures. Both use an external wall mount power supply.

Video Format	Pixel Clock Frequency
720x480p@59.94/60Hz	27/27.027MHz
1280x720p@59.94/60Hz	74.175/74.25MHz
1920x1080i@59.94/60Hz	74.175/74.25MHz
1920x1080p@59.94/60Hz	148.35/148.50MHz
720x576p@50Hz	27MHz
720(1440)x576i@50Hz	27MHz
1280x720p@50Hz	74.25MHz
1920x1080i@50Hz	74.25MHz
1920x1080p@50Hz	148.5MHz
3840x2160@30Hz	297MHz

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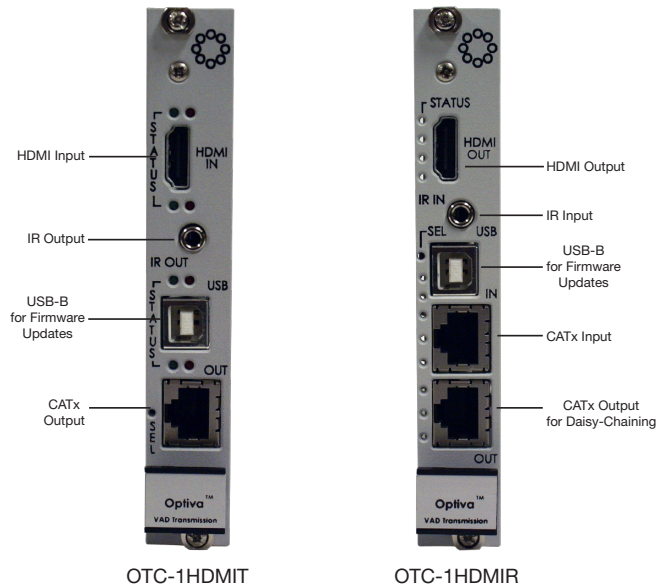
DATASHEET

CATx

Models

Transmitter	Receiver
OTC-1HDMIT-IR	OTC-1HDMIR-IR

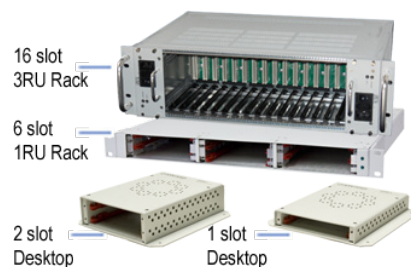
Connection Diagram



OTC-1HDMIT

OTC-1HDMIR

Enclosure Options



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	-30°C to +85°C
Humidity	0 to 95% (non-condensing)
Power Consumption	~6 Watts
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 Audio Support	Yes

Data

Specifications	Values
Data Type	Infrared (external IRD receiver and sender are required)
Connector Type	2.5mm barrel type (female)

CATx

Specifications	Values
Connector	TX: 1x RJ45 output RX: 1x RJ45 input, 1x RJ45 output for daisy-chaining
Protocol	HDBaseT compliance
Cables	CAT5e, Cat6, CAT6e, CAT7, UTP / STP or FTP
Protocol	HDBaseT compliance
Distance	Up to 100m
Data Rate	9.25 Gbps

Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	OptivaView® SNMP Management Suite*

* Requires OptivaView SNMP Controller Card (Model: OPV-CLR)

Compliance (Pending)

