



Features

- SMPTE, HDCP and HDBaseT compliant
- Uncompressed DVI Video over CAT5e/6 up to 100 meters
- Supports DVI resolutions up to 1920x1200
- Supports High Definition 1080P
- Supports USB 2.0 for HID only
- Supports analog stereo audio
- Support 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

DVI, Audio, USB KVM, with HDBaseT Compliance over CAT5e/6

The Optiva OTC-1DVI2AUSB provides for the transmission of 1 channel of DVI with stereo analog audio, and USB for keyboard and mouse extension up to 100 meters on a single CAT5e/6 cable.

In addition, our innovative Optiva system was designed to allow format conversion, such as DVI to HD-SDI and HD-SDI to 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"

optiva PLATFORM

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
XGA: 1024x768@60Hz	65MHz
WXGA: 1360x768@60Hz	85.50MHz
SXGA: 1280x1024@60Hz	108Mhz
SXGA+: 1440x1050@60Hz	101Mhz
UXGA: 1600x1200@60Hz	162MHz
WUXGA: 1920x1200@60Hz	154MHz

OTC-1DVI2AUSB

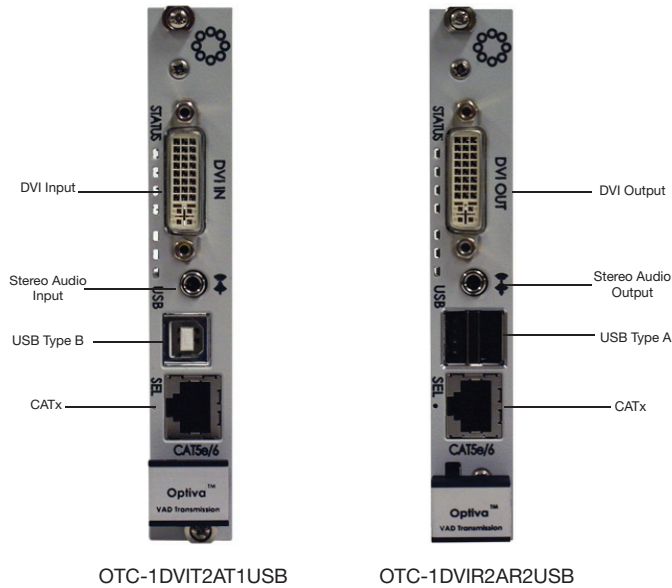
DVI, Stereo Analog Audio and USB KVM

PRELIMINARY DATASHEET CATX

Models

Transmitter	Receiver
OTC-1DVIT2AT1USB	OTC-1DVIR2AR2USB

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	-30°C to +85°C
Humidity	0 to 95% (non-condensing)
Power Consumption	~8 Watts
Warranty	3 Years

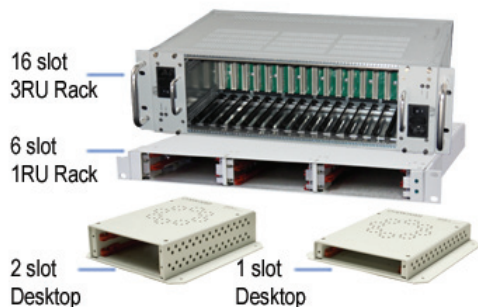
Video

Specifications	Values
Standards	DVI 1.0/VESA
Resolutions	(see chart on front side)
Connector	DV1-D
Color Depth	24 Bit
HDCP Compliance	1.2

Audio

Specifications	Values
Channels	24-Bit Dual Channel
Impedance	47k Ohm Unbalanced
Audio Levels	2V p-p Max
Frequency Response	20 Hz to 20 KHz (±0.1 dB)
Signal-to-Noise Ratio	> 85 dB @ 1KHz (weighted)
Total Harmonic Distortion	< 0.1% @ 1KHz
Connector Type	3.5mm Stereo Headphone Jack

Enclosure Options



Data

Specifications	Values
Connector	Transmit: USB Type B, Receive: Dual USB Type A
Data	USB 2.0 HID and Programming

Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators

Compliance (Pending)

