ooo opticompany travel by light®

OTS-1DVI2A Optiva[®] Standard, DVI/VGA/RGBHV

DVI (Single-Link & Dual-Link), Analog VGA, RGB-HV and Analog Audio transport over a single fiber, single wavelength

Opticomm's OTS-1DVI2A is the perfect solution for transmitting the full range of VESA and

SMPTE compliant video resolutions over long



Video



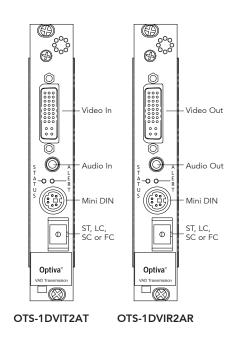
Audio

or short distances with a single wavelength. Other systems simply do not offer as wide of a range of signals and resolutions over a single wavelength. This single fiber, single wavelength solution is perfect for any professional audio/visual application such as remote digital theaters, video conferencing, concerts and other similar applications like electronic billboards and sports arena screens. In addition to DVI, VGA and RGB-HV transmission, Stereo Audio is also supported on the same fiber. Optiva® was designed to maintain a quality uncompressed signal and as always, the resolution you input is the resolution that we output. The OTS-1DVI2A lets you input DVI and output VGA or vice-versa, the choice is yours! Switching and multicasting the OTS-1DVI2A over the OptiLinx® Switching Platform is quick and simple, making this solution perfect for large-screen, high-resolution digital presentations allocating only one fiber to each display.

System Design

The OTS-1DVI2A comes in a standard Optiva® insert card form factor (See pg. 2 for dimensions). These cards fit easily into our 3RU rack mount enclosure or stand alone desktop enclosures. The desktop enclosures can hold 1, 2 or 4 cards, creating compact, mountable, stand-alone systems, while the rack-mount enclosure can accommodate up to 16 insert cards.

The use of separate enclosures allows for future flexibility and expansion as all cards are hotswappable and can be used in any enclosure. Each one of our card housing units operate with an appropriate power supply.



Features

- Optiva® patent-pending Daisy-Chain™ Technology
- Multimode or singlemode options (up to 70 km over one fiber)
- Supports DVI resolutions up to 2048x1536
- Supports VGA resolutions up to 2048x1536
- Supports component video up to 1080p
- H & V Sync Frequency range of 60 to 85 Hz (vertical)
- Uses all-digital processing for crystal clear picture with no compression
- Real-time video transmission for exceptional quality and resolution
- Standard DVI-I video connector with HD-15 adapter is included for RGB/VGA interface
- 1RU rack-mount version also available

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Models Available

| Wavelength (nm) & Fiber | Transmit* | Receive* | Data Rate (Gb/s) | Optical Connector | Optical Budget (dB) | Range** (km) | Form Factor |
|----------------------------|------------------------|------------------------|---------------------|----------------------|------------------------|-----------------|-------------|
| 850 Multimode | OTS-1DVIT2AT-C0-XX-IC | OTS-1DVIR2AR-C0-XX-IC | 3.125 | ST, FC, LC or SC | 5 | 0.5 | IC (1-slot) |
| 1310 Multimode | OTS-1DVIT2AT-C1-XX-IC | OTS-1DVIR2AR-C1-XX-IC | 3.125 | ST, FC, LC or SC | 7 | 1.5 | IC (1-slot) |
| 1310 Singlemode | OTS-1DVIT2AT-C2-XX-IC | OTS-1DVIR2AR-C2-XX-IC | 3.125 | ST, FC, LC or SC | 7 | 10 | IC (1-slot) |
| 1310 Singlemode (D) | OTS-1DVIT2AT-C2D-XX-IC | OTS-1DVIR2AR-C2D-XX-IC | 3.125 | ST, FC, LC or SC | 12 | 20 | IC (1-slot) |
| 1550 Singlemode | OTS-1DVIT2AT-C3-XX-IC | OTS-1DVIR2AR-C3-XX-IC | 3.125 | ST, FC, LC or SC | 17 | 40 | IC (1-slot) |
| 1550 Singlemode (D) | OTS-1DVIT2AT-C3D-XX-IC | OTS-1DVIR2AR-C3D-XX-IC | 3.125 | ST, FC, LC or SC | 25 | 60 | IC (1-slot) |
| 1270-1610 SM (сwDм) | OTS-1DVIT2AT-C4-XX-IC | OTS-1DVIR2AR-C4-XX-IC | 3.125 | ST, FC, LC or SC | Varies | 20-70 | IC (1-slot) |

* XX indicates the type of optical connector. Each of ST, FC, LC or SC are available.

** Chromatic dispersion and additional losses should be taken into account.

RGB/VGA/DVI

Video Resolutions Supported*

| VGA Resolution | S | Max Refresh (Hz) |
|-----------------------------|----------------------------|-------------------|
| 600x480 | VGA | 85 |
| 800x600 | SVGA | 85 |
| 1024x768 | XGA | 85 |
| 1280x720 | WXGA | 85 |
| 1280x1024 | SXGA | 85 |
| 1400x1050 | SXGA+ | 75 |
| 1600x1200 | UXGA | 75 |
| 1920x1200 | WUXGA | 75 |
| 2048x1536 | QXGA | 60 |
| Note: supports all sta | ndard VESA resolutions. | |
| DVI (SL and DL Resolutions) | | Max Refresh (Hz) |
| 600x480 | VGA | 85 |
| 800x600 | SVGA | 85 |
| 1024x768 | XGA | 85 |
| 1280x720 | WXGA | 85 |
| 1280x1024 | SXGA | 85 |
| 1400x1050 | SXGA+ | 75 |
| 1600x1200 | UXGA | 75 |
| 1680x1050 | WSXGA+ | 75 |
| 1920x1200 | WUXGA | 75 |
| 2048x1536 | QXGA | 60 |
| Component Vide | Max Refresh (Hz) | |
| 480i | | 60 |
| 480p | | 60 |
| 720p | | 60 |
| 1080i | | 60 |
| 1080p | | 60 |
| Note: supports all sta | ndard SMPTE resolutions fo | r component video |

* Higher resolutions utilize selective refresh technology. A higher bandwidth

version (Model OTS-1HDVI) is available for high-grade Dual Link DVI applications.

See chart above

24-Bit Stereo Audio

< 0.1% @ 1 KHz

20 Hz to 20 KHz (±0.1 dB)

> 85 dB @ 1 kHz (weighted)

24-Bit

DVI-I (DVI to VGA adapter included)

47k Ohm Unbalanced or 600 Ohm Balanced

6 dBm (differential) single-ended; 2.5V p-p

Video

Resolutions Connector Color Depth

Audio

Channels Audio In/Out Impedance Audio In/Out Level Frequency Response Signal to Noise Ratio Total Harmonic Distortion Connector Type

General

Dimensions & Weight Operating Temperature Storage Temperature Humidity **Power Consumption**

Insert Card (IC): 6.3"L x 0.8"W x 4.0"H 11 oz. 0° C to +50° C -30° C to +85° C 0 to 95% non-condensing < 8W

1/8" stereo headphone jack or 6-pin mini DIN (for differential)

Local Monitoring

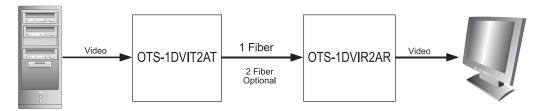
Remote Monitoring & Control

Sample Configuration

Front panel LED status indicators and push buttons

Compatible with OptivaView[™] SNMP Management Suite





Optiva[™] Configurable Communication Platform

Network Management

SDI & HD-SDI

Composite Video, Audio & Data

RGB/VGA/DVI

Audio/FSK/Intercom

Data (Ethernet/Serial/USB)

CATV/RF & L-Band

Optical Switching, Routing & Redundancy

> Passive Multiplexing Solutions

> > Enclosures, Racks & Frames

Power Supplies & Accessories



FCC PART 15 COMPLIANT MADE IN THE USA