°°°° Opticomm °°°° Opticomm travel by light™

OTS-2V4DTR Optiva[™] Standard, 2 Composite Video, and 4 Duplex RS-232/422/485 Data

Composite Video and Data Transmission

The OTS-2V4DTR provides for the digital transmission of 2 Channels of Composite Video and 4 Channels of Duplex Serial Data.



Video

System Design

All units come in an insert card version. The cards can be inserted into our 16-slot, 19" rack-mountable card cage (CC-16-100) or one of our smaller Optiva[™] Desktop Card Racks (DTCR Series).

Audio



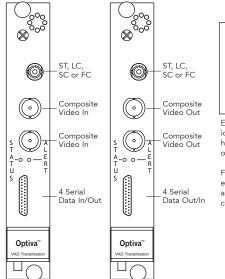
Data

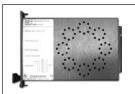
The Desktop Card Racks can handle one, two or four insert cards, creating compact, mountable, stand alone systems. The use of separate DTCR enclosures allows for future flexibility and expansion as all cards are hot-swappable and can be used in any enclosure. Each one of our card housing units operate with an appropriate power supply. See "Accessories" for power supply specifications.

Optiva[™] Upgrade Path

This system can be purchased without an optical port as an add-on to an existing Optiva[™] system daisy-chain. (See "Non-Optical Version" below).

The Optiva[™] bandwidth requirement of this system is 648 Mbps.





Each insert card comes with a label identifying the specific protocols handled, connector pin-out and other vital information.

For optimal bandwidth allocation, each insert card can daisy-chain with an additional card in the same chassis.

See "Optiva™ Upgrade Path".

OTS-2VT4DTR

Features

• Composite Video and Serial Data over one fiber

OTS-2VR4DTR

- TDM Single fiber, dual wavelength
- True DC restoration
- Flat frequency response
- Complies with SMPTE 259 for uncompressed SDI
- Compatible with MDM-7000 Series for WDM and CWDM multiplexing
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Ideal for Broadcast/Studio and Professional AV applications

Versions Available*

Wavelength (nm) & Fiber	Transmit/Receive**	Receive/Transmit**	Optical Connector	Optical Budget (dB)	Range*** (km)	Form Factor
1310/1550 Multimode	OTS-2VT4DTR-A2/A3M-XX-IC	OTS-2VR4DTR-A3M/A2-XX-IC	ST, FC, LC or SC	10	3	IC (1-slot)
1310/1550 Singlemode	OTS-2VT4DTR-A2/A3-XX-IC	OTS-2VR4DTR-A3/A2-XX-IC	ST, FC, LC or SC	14	20	IC (1-slot)
1310/1550 SM (D)	OTS-2VT4DTR-A2/A3D-XX-IC	OTS-2VR4DTR-A3D/A2-XX-IC	ST, FC, LC or SC	21	40	IC (1-slot)
1270-1610 SM (сwDм)	OTS-2VT4DTR-L4/L4-XX-IC	OTS-2VR4DTR-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (1-slot)
Non-Optical Version	OTS-2VT4DTR-NOC-IC	OTS-2VR4DTR-NOC-IC	N/A	N/A	N/A	IC (1-slot)

Serial Data Codes - "D" indicates RS-232. For other Serial Data preferences, please use: "DJ" = RS-422; "DK" = RS-485 (2W); and "DW" = RS-485 (4W).

* Contact Opticomm for other versions available.

** 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.

NOTE: The systems in this category offer transmission of certain signals in set configurations. If your application involves multi-signal transmission and/or would benefit from system upgradeability, please visit the Optiva™ Platform section on page 14. To configure an Optiva™ system to your precise needs, please register for the 'Product Configurator' at www.opticomm.com

Composite Video, Audio & Data

Video Standard

Bit Resolution Level Bandwidth **Differential Gain Differential Phase** Compatibility Signal to Noise Ratio Connector SMPTE 170M; Exceeds RS-250C Short Haul 10-Bit Processing; 10-Bit Transmission 1.0 Volt p-p 9 MHz <2% < 0.7% NTSC, PAL, SECAM >67 dB BNC (IEC 60169-8)

Data

Connector RS-232, RS-422 Data Rate RS-485 (2 Wire) Data Rate RS-485 (4 Wire) Data Rate **Contact Closure** Data Rate

Micro DB25

DC to 1 Mbps

DC to 1 Mbps DC to 1 Mbps

DC to 1 Mbps

General

Dimensions & Weight Operating temperature Storage temperature Humidity Operating voltage Consumption System Latency Insert Card (IC): 6.3" L x 0.8" W x 4.0" H 11 oz -20° C to +55° C -40° C to +85° C 0 to 95% non-condensing 9-12 V_{DC} 1A Max per Insert Card

Local Monitoring

Remote Monitoring

Less than 1ms

LED Status Indication

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

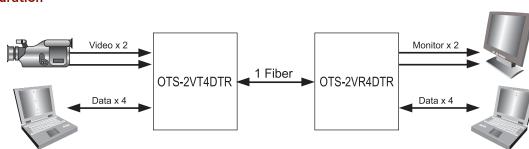




PART 15 COMPLIANT

Emissions: FCC Part 15, ICES-003, AS/NZS, 3548, EN55022 Immunity: ENVS0204, EN61000-4-2,3,4,5,6,11 UL1950, CAN/CSA 22.2, Safety NO.950-95

MADE IN THE USA



Sample Configuration