

OTS-1V2ATR1DTR1ETR

Optiva[™] Standard, 1 Composite Video, 2 Duplex Analog Audio,1 Duplex RS-232/422/485 and 1 Duplex 10/100 Mbps Ethernet

Composite Video, Audio, Serial Data and Ethernet Transmission

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Video



Audio



Data



Ethernet

The OTS-1V provides for the digital transmission of 1 Channel of Composite Video, 2 Channels of Duplex Analog Audio, 1 Channel of Duplex Serial Data and 1 Channel of Duplex 10/100 Ethernet.

System Design

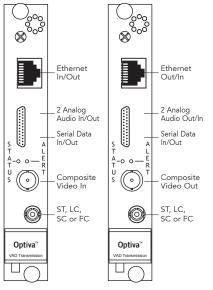
All units come in an insert card version. The cards can be inserted into our 16-slot, 19" rack-mountable card cage (CC-16-100) or one of our smaller Optiva™ Desktop Card Racks (DTCR Series).

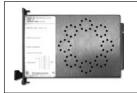
The Desktop Card Racks can handle one, two or four insert cards, creating compact, mountable, stand alone systems. The use of separate DTCR enclosures allows for future flexibility and expansion as all cards are hot-swappable and can be used in any enclosure. Each one of our card housing units operate 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 438 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".

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Features

- Composite Video, Analog Audio, Serial Data and Ethernet over one fiber
- 10-Bit Digital Transmission
- TDM Single fiber, dual wavelength
- True DC restoration
- Flat frequency response
- Complies with SMPTE standards for Video transmission
- 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 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-1VT2ATR1DTR1ETR-A2/A3M-XX-IC	OTS-1VT2ATR1DTR1ETR-A3M/A2-XX-IC	ST, FC, LC or SC	10	3	IC (1-slot)
1310/1550 Singlemode	OTS-1VT2ATR1DTR1ETR-A2/A3-XX-IC	OTS-1VT2ATR1DTR1ETR-A3/A2-XX-IC	ST, FC, LC or SC	14	20	IC (1-slot)
1310/1550 SM (D)	OTS-1VT2ATR1DTR1ETR-A2/A3D-XX-IC	OTS-1VT2ATR1DTR1ETR-A3D/A2-XX-IC	ST, FC, LC or SC	21	40	IC (1-slot)
1270-1610 SM (сwDм)	OTS-1VT2ATR1DTR1ETR-L4/L4-XX-IC	OTS-1VT2ATR1DTR1ETR-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (1-slot)
Non-Optical Version	OTS-1VT2ATR1DTR1ETR-NOC-IC	OTS-1VT2ATR1DTR1ETR-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 $^{\text{TM}}$ 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 SMPTE 170M;

Exceeds RS-250C Short Haul

Bit Resolution 10-Bit Processing; 10-Bit Transmission

Level 1.0 Volt p-p Bandwidth 9 MHz

Differential Gain <2% Differential Phase < 0.7%

NTSC, PAL, SECAM Compatibility

Signal to Noise Ratio >67 dB

> Connector BNC (IEC 60169-8)

Analog Audio

Level 6 dBm In/Out Impedance Options:: Bandwidth 20 Hz to 20 KHz Input

Output Signal to Noise Ratio $> 80 \, dB$ Balanced 600 Ohm Balanced 600 Ohm Total Harmonic Distortion < 0.1% Balanced Hi-Z Balanced Low-Z Signal Coding 20-bit Unbalanced Hi-Z Unbalanced Low-Z

Connector Micro DB25

Data

Micro DB25 Connector

RS-232, RS-422 Data Rate DC to 1 Mbps

RS-485 (2 Wire)

Data Rate DC to 1 Mbps

RS-485 (4 Wire)

Data Rate DC to 1 Mbps

Contact Closure

DC to 1 Mbps Data Rate

Ethernet

Standard Ethernet IEEE 802.3 Data Rate 10/100 Mbps

Connector **RJ-45**

General

Dimensions & Weight Insert Card (IC): 6.3" L x 0.8" W x 4.0" H 11 oz

Operating temperature -20° C to +55° C Storage temperature -40° C to +85° C

0 to 95% non-condensing Humidity

9-12 V_{DC} Operating voltage

> 1A Max per Insert Card Consumption

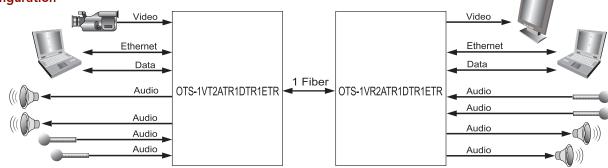
Less than 1ms System Latency

Local Monitoring LED Status Indication

Compatible with OptivaView[™] Remote Monitoring

SNMP Management Suite

Sample Configuration



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











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,

MADE IN THE USA MADE IN THE USA