

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

 $0 \rightarrow$

Video



Audio



Data



Ethernet

The OTS-1V2ATR1DTR1ETR 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

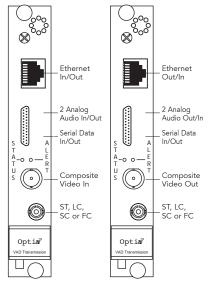
All units come in an insert card version.
The cards can be inserted into our 16-slot,
19" rack-mountable card cage (OT-CC-16-100)
or one of our smaller Optiva™ Desktop
Card Racks (OT-DTCR Series).

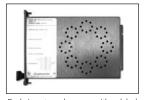
The Optiva™ Desktop Card Racks can handle one, two or four insert cards, creating compact, mountable, stand alone systems. The use of separate OT-DTCR enclosures allows for future flexibility and expansion as all cards are hot-swappable and can be used in any enclosure. Each one of our card housing units 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 542 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-1VT2ATR1DTR1ETR OTS-1VR2ART1DRT1ERT

Features

- Composite Video, Analog Audio, Serial Data and Ethernet over one fiber
- 10-Bit Digital Transmission
- TDM Single fiber, dual wavelength
- 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-A1/A3M-XX-IC	OTS-1VR2ART1DRT1ERT-A3M/A1-XX-IC	ST, FC, LC or SC	10	3	IC (1-slot)
1310/1550 Singlemode	OTS-1VT2ATR1DTR1ETR-A2/A3-XX-IC	OTS-1VR2ART1DRT1ERT-A3/A2-XX-IC	ST, FC, LC or SC	12	20	IC (1-slot)
1310/1550 SM (D)	OTS-1VT2ATR1DTR1ETR-A2/A3D-XX-IC	OTS-1VR2ART1DRT1ERT-A3D/A2-XX-IC	ST, FC, LC or SC	17	40	IC (1-slot)
1310/1550 SM (н)	OTS-1VT2ATR1DTR1ETR-A2/A3H-XX-IC	OTS-1VR2ART1DRT1ERT-A3H/A2-XX-IC	ST, FC, LC or SC	25	60	IC (1-slot
1270-1610 SM (сwbм)	OTS-1VT2ATR1DTR1ETR-L4/L4-XX-IC	OTS-1VR2ART1DRT1ERT-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (1-slot)
Non-Optical Version	OTS-1VT2ATR1DTR1ETR-NOC-IC	OTS-1VR2ART1DRT1RT-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.

Composite Video, Audio & Data

Video

Standard SMPTE 170M; RS-250C

Bit Resolution 10-Bit Processing; 10-Bit Transmission

Level 1.0 Volt p-p Bandwidth 5.5 MHz Differential Gain < 1%

Differential Phase < 0.7° Compatibility NTSC, PAL

Signal to Noise Ratio > 67 dB

> BNC (IEC 60169-8) Connector

Analog Audio

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

Bandwidth 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

Unbalanced Hi-Z

Unbalanced Low-Z

Signal Coding 20-bit 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 Data Rate DC to 1 Mbps

Ethernet

Standard Ethernet IEEE 802.3 (Auto-Negotiation)

10/100 Mbps Data Rate

Connector RJ-45

General

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

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

> 0 to 95% non-condensing Humidity

Operating voltage $9-12 V_{DC}$

Consumption 1 Amp Max per Insert Card System Latency Less than 1ms (Audio <10ms)

Local Monitoring LED Status Indication

Compatible with OptivaView[™] Remote Monitoring

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









MADE IN THE USA



