

## **OTS-1V2ATR1DTR**

Optiva<sup>™</sup> Standard, Duplex Analog Audio

1 Composite Video, 2 Duplex Analog Audio and 1 Duplex RS-232/422/485 Data

# Composite Video, Audio and Serial Data Transmission

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The OTS-1V2ATR1DTR provides for the digital transmission of 1 Channel of Composite Video, 2 Channels of Duplex Analog Audio and 1 Channel of Duplex Serial Data.



Video

## System Design



Audio

**U**7

Data

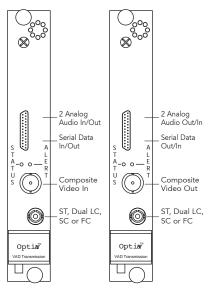
All units come in an insert card version.
The cards can be inserted into our 16-slot,
19" rack-mountable card cage (OT-CC-16-100)
or one of our smaller Optiva™ Desktop
Card Racks (OT-DTCR Series).

The Optiva<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> bandwidth requirement of this system is 370 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-1VT2ATR1DTR OTS-1VR2ART1DRT

#### **Features**

- Composite Video, Analog Audio and Serial Data
- 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-1VT2ATR1DTR-A1/A3M-XX-IC	OTS-1VR2ATR1DRT-A3M/A1-XX-IC	ST, FC, Dual LC or S0	C 10	3	IC (1-slot)
1310/1550 Singlemode	OTS-1VT2ATR1DTR-A2/A3-XX-IC	OTS-1VR2ATR1DRT-A3/A2-XX-IC	ST, FC, Dual LC or SC	C 12	20	IC (1-slot)
1310/1550 SM (D)	OTS-1VT2ATR1DTR-A2/A3D-XX-IC	OTS-1VR2ATR1DRT-A3D/A2-XX-IC	ST, FC, Dual LC or SC	C 17	40	IC (1-slot)
1310/1550 SM (н)	OTS-1VT2ATR1DTR-A2/A3H-XX-IC	OTS-1VR2ATR1DRT-A3H/A2-XX-IC	ST, FC, Dual LC or SC	25	60	IC (1-slot)
1270-1610 SM (сwдм)	OTS-1VT2ATR1DTR-L4/L4-XX-IC	OTS-1VR2ATR1DRT-L4/L4-XX-IC	ST, FC, Dual LC or SC	C Varies	20-70	IC (1-slot)
Non-Optical Version	OTS-1VT2ATR1DTR-NOC-IC	OTS-1VR2ATR1DRT-NOC-IC	N/A	N/A	N/A	IC (1-slot)

Analog Audio Codes - To indicate your Analog Audio impedance preference, please use the following instead of "A" in the model number: "AB" = Input Balanced 600 Ohm, Output Balanced 600 Ohm; "ABH" = Input Balanced Hi-Z, Output Balanced Low-Z; and "AUH" = Input Unbalanced Hi-Z, Output Unbalanced Low-Z.

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).

<sup>\*</sup> Contact Opticomm for other versions available.

<sup>\*\*</sup> XX indicates the type of optical connector. Each of ST, FC, Dual LC or SC are available.

<sup>\*\*\*</sup> Chromatic dispersion and additional losses should be taken into account.

## Composite Video, Audio & Data

Video

Standard SMPTE 170M; RS-250C

10-Bit Processing; 10-Bit Transmission Bit Resolution

Level 1.0 Volt p-p Bandwidth 5.5 MHz Differential Gain < 1% < 0.7°

Differential Phase Compatibility NTSC, PAL 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

 $> 80 \, dB$ Signal to Noise Ratio Balanced 600 Ohm Balanced 600 Ohm Total Harmonic Distortion < 0.1% Balanced Hi-Z Balanced Low-Z Signal Coding 24-bit Unbalanced Hi-Z Unbalanced Low-Z

> Connector Micro DB25

> > Data

Connector Micro DB25

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

General

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

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

> 0 to 95% non-condensing Humidity

9-12 VDC Operating voltage

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

**Local Monitoring** LED Status Indication

Compatible with OptivaView<sup>™</sup> 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

### Sample Configuration

