opticomm
an emcore company
travel by light®

OTS-2V4ATR1ETR
Optiva® Standard,
1 Composite Video, 4 Duplex Audio and 1 Duplex 10/100 Mbps Ethernet

2 → Video

4 ↔ Audio

Data

1 ↔ Ethernet

Composite Video, Audio and Ethernet Transmission

The OTS-2V4ATR1ETR provides for the digital transmission of 2 Channels of Composite Video, 4 Channels of Duplex Analog Audio and 1 Channel of Duplex 10/100 Ethernet.
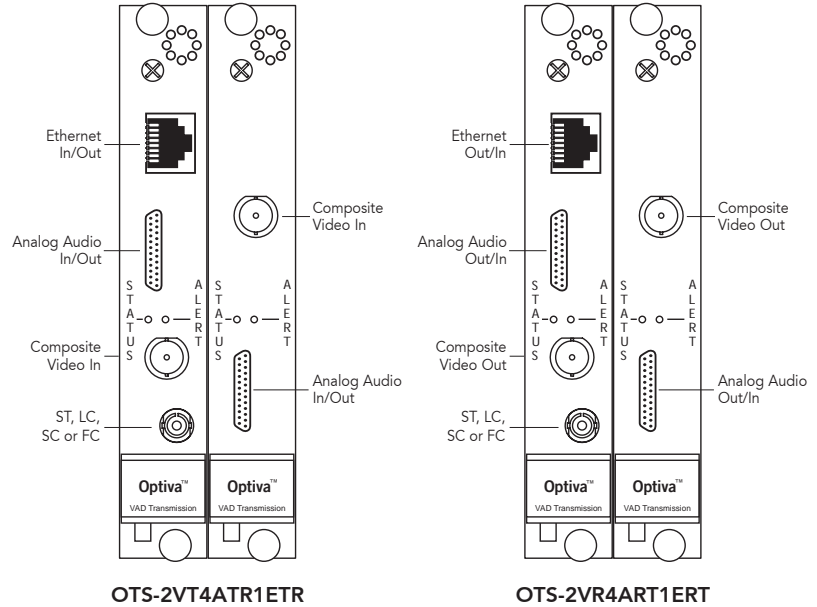
System Design

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 894 Mbps.

Ethernet In/Out
Analog Audio In/Out
Composite Video In
ST, LC, SC or FC
Composite Video In
Analog Audio In/Out

OTS-2VT4ATR1ETR

Ethernet Out/In
Analog Audio Out/In
Composite Video Out
ST, LC, SC or FC
Composite Video Out
Analog Audio Out/In

OTS-2VR4ART1ERT

Features

- Composite Video, Audio and Ethernet over one fiber
- 12-Bit Digital Transmission (Video)
- TDM - Single fiber, dual wavelength
- Complies with SMPTE Standards
- 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-2VT4ATR1ETR-A2/A3M-XX-IC	OTS-2VR4ART1ERT-A3M/A2-XX-IC	ST, FC, LC or SC	10	3	IC (2-slots)
1310/1550 Singlemode	OTS-2VT4ATR1ETR-A2/A3-XX-IC	OTS-2VR4ART1ERT-A3/A2-XX-IC	ST, FC, LC or SC	12	20	IC (2-slots)
1310/1550 SM (D)	OTS-2VT4ATR1ETR-A2/A3D-XX-IC	OTS-2VR4ART1ERT-A3D/A2-XX-IC	ST, FC, LC or SC	17	40	IC (2-slots)
1310/1550 SM (H)	OTS-2VT4ATR1ETR-A2/A3H-XX-IC	OTS-2VR4ART1ERT-A3H/A2-XX-IC	ST, FC, LC or SC	25	60	IC (2-slots)
1270-1610 SM (CWDM)	OTS-2VT4ATR1ETR-L4/L4-XX-IC	OTS-2VR4ART1ERT-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (2-slots)
Non-Optical Version	OTS-2VT4ATR1ETR-NOC-IC	OTS-2VR4ATR1ETR-NOC-IC	N/A	N/A	N/A	IC (2-slots)

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.

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.*

Video

Standard	SMPTE 170M; RS-250C (Short Haul)
Bit Resolution	12-Bit Digital Transmission
Level	1.0 Volt p-p
Bandwidth	5.5 MHz
Differential Gain	< 2%
Differential Phase	< 0.7°
Passband Ripple	< ±0.2 dB to 5.5 MHz
Chroma/Luma Delay	<12ns
Compatibility	NTSC, PAL, SECAM
Signal to Noise Ratio	> 67 dB
Connector	BNC (IEC 60169-8)

Analog Audio

Level	6 dBm In/Out
Bandwidth	20 Hz to 20 KHz
Signal to Noise Ratio	> 80 dB
Total Harmonic Distortion	< 0.1%
Signal Coding	24-bit
Connector	Micro DB25

Impedance Options:

Input		Output	
Balanced	600 Ohm	Balanced	600 Ohm
Balanced	Hi-Z	Balanced	Low-Z
Unbalanced	Hi-Z	Unbalanced	Low-Z

Data

Standard	Ethernet IEEE 802.3
Data Rate	10/100 Mbps
Connector	RJ-45 UTP

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
Humidity	0 to 95% non-condensing
Operating voltage	9-12 V_{DC}
Consumption	< 7w per insert card
System Latency	Less than 1ms (Audio <10ms)

Local Monitoring

LED Status Indication

Remote Monitoring

Compatible with OptivaView™
SNMP Management Suite

10 YEAR WARRANTY
ISO 9001:2000 CERTIFIED
CSA® **CE**
FCC PART 15 COMPLIANT

MADE IN THE USA

Sample Configuration