

1

Video

Audio

Data

Composite Video

The OTS-1V provides for the digital transmission of 1 Channel of Composite Video.

System Design

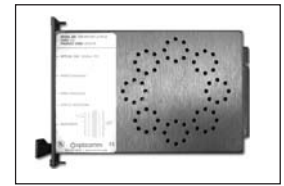
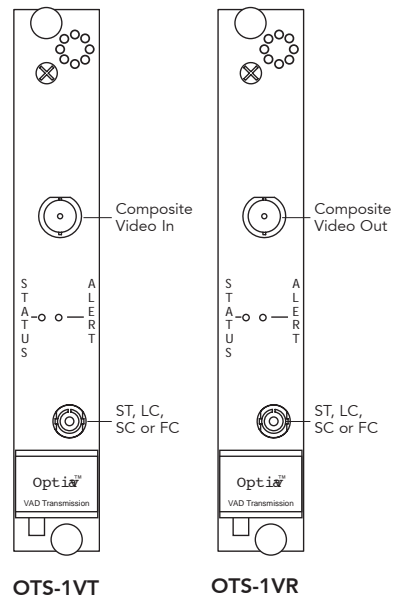
All units come in an insert card version. The cards can be inserted into our 16-slot, 19" rack-mountable card cage (OT-CC-16-100) or one of our smaller Optiva™ Desktop Card Racks (OT-DTCR Series).

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 351 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".

Features

- Composite Video over one fiber
- 10-Bit Digital Transmission
- TDM - Single 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** | Optical Connector | Optical Budget (dB) | Range*** (km) | Form Factor |
|----------------------------|-------------------|-------------------|-------------------|---------------------|---------------|-------------|
| 1310 Multimode | OTS-1VT-A1-XX-IC | OTS-1VR-A1-XX-IC | ST, FC, LC or SC | 10 | 3 | IC (1-slot) |
| 1310 Singlemode | OTS-1VT-A2-XX-IC | OTS-1VR-A2-XX-IC | ST, FC, LC or SC | 7 | 10 | IC (1-slot) |
| 1310 Singlemode (D) | OTS-1VT-A2D-XX-IC | OTS-1VR-A2D-XX-IC | ST, FC, LC or SC | 12 | 20 | IC (1-slot) |
| 1550 Singlemode | OTS-1VT-A3-XX-IC | OTS-1VR-A3-XX-IC | ST, FC, LC or SC | 17 | 40 | IC (1-slot) |
| 1550 Singlemode (D) | OTS-1VT-A3D-XX-IC | OTS-1VR-A3D-XX-IC | ST, FC, LC or SC | 25 | 60 | IC (1-slot) |
| 1270-1610 SM (CWDM) | OTS-1VT-L4-XX-IC | OTS-1VR-L4-XX-IC | ST, FC, LC or SC | Varies | 20-70 | IC (1-slot) |
| Non-Optical Version | OTS-1VT-NOC-IC | OTS-1VR-NOC-IC | N/A | N/A | N/A | IC (1-slot) |

* 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 |
| Connector | BNC (IEC 60169-8) |

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 | 1 Amp Max per Insert Card | |
| System Latency | Less than 1ms | |

Local Monitoring LED Status Indication

Remote Monitoring 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

10 **ISO**
YEAR **9001:2000**
WARRANTY **CERTIFIED**



FCC PART 15
COMPLIANT

MADE IN THE USA

Sample Configuration

