

Composite Video Transmission

The OTP-3V provides for the digital transmission of 3 channels of 12-Bit Composite Video, at broadcast quality.

The OTP-3V is an excellent choice for transporting composite video signals over long or short distances over a single optical fiber. The system offers the complete flexibility needed for transporting fully digital composite video over one fiber. Additionally, the OTP-3V is part of the innovative Optiva® Series Video, Audio and Data Media Transport System. New signals may be added or fully redundant optical transport solutions may be developed.



Features

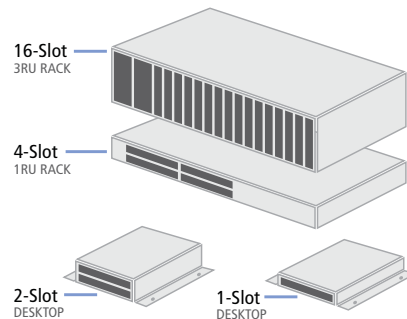
- SMPTE Compliant
- Composite Video over Fiber
- Singlemode Options (up to 60 km)
- Multimode Options (up to 3 km)
- Uses All-Digital Processing for Crystal Clear Picture with No Compression
- Real-Time Video Transmission for Exceptional Quality and Resolution
- TDM - Single Wavelength
- No EMI, RFI, or Ground Loops
- Compatible with MDM-7000 Series for CWDM Multiplexing
- 3-Year Warranty

System Design

Optiva® insert cards support both 19" rack mount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosure (Model: OT-CC-16-100) can support up to 16 insert cards. It also supports dual-redundant, hot-swappable power supplies (Model: OT-CC-16-100-RPS) utilizing two PS-100 power supplies or two PS-200 power supplies (Model: OT-CC-16-200-RPS). Also available in the rackmount form factor is the four-slot (Model: OT-CC-4-1U) which houses four insert cards in 1RU of rack space. The compact one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures both use an external power supply (Model: PS-9012).



Enclosure Options



Applications

- High-Quality Video Security Systems
- Video Surveillance
- Train/Rail Station Camera Systems
- CCTV Applications
- Optical NTSC/PAL Video Switching

DATASHEET **FIBER OPTICS**

Models

Transmitter	Receiver
OTP-3VT-A0-XX	OTP-3VR-A0-XX
OTP-3VT-A1-XX	OTP-3VR-A1-XX
OTP-3VT-A2-XX	OTP-3VR-A2-XX
OTP-3VT-A2D-XX	OTP-3VR-A2D-XX
OTP-3VT-A3-XX	OTP-3VR-A3-XX
OTP-3VT-A3D-XX	OTP-3VR-A3D-XX
OTP-3VT-L4x1-XX	OTP-3VR-L4x1-XX
OTP-3VT-NOC	OTP-3VR-NOC

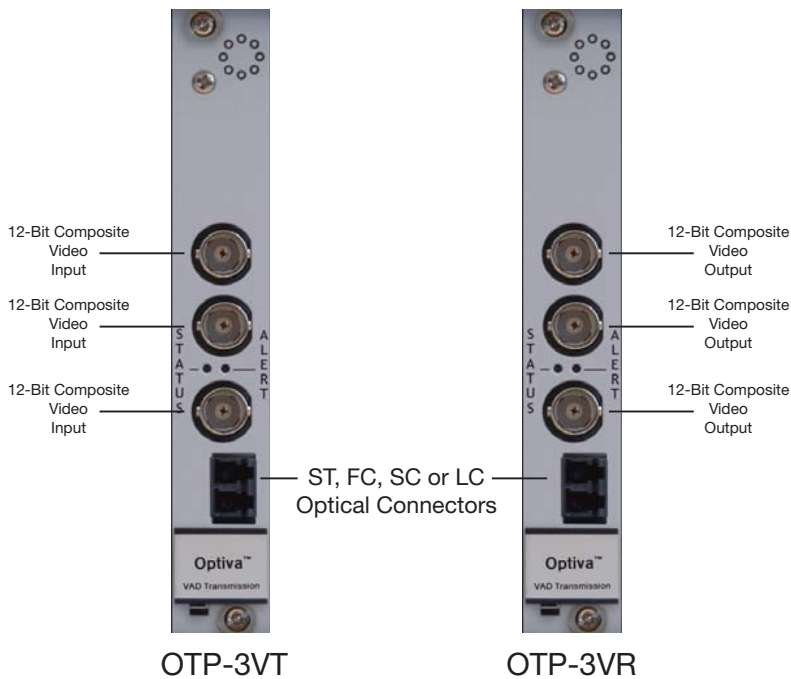
- When ordering, please substitute the "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.
- Standard SC connector type is UPC. APC is available upon request.

Optical Specifications

Code	Fiber Type	Wavelength	Optical Budget	Distance
A0	Multimode	850 nm	7 dB	0.5 km
A1	Multimode	1310 nm	5 dB	2 km
A2	Singlemode	1310 nm	7 dB	10 km
A2D	Singlemode	1310 nm	12 dB	20 km
A3	Singlemode	1550 nm	17 dB	40 km
A3D	Singlemode	1550 nm	25 dB	60 km
L4x1	Singlemode	CWDM	Varies	20-70 km

- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation

Connection Diagram



Video

Specifications	Values
Standards	SMPTE 170, 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°
Compatibility	NTSC, PAL, SECAM
Signal to Noise Ratio	> 67 dB
Connector	BNC (IEC 60169-8)

General

Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% (Non-Condensing)
Operating Voltage	12 VDC
Power Consumption	6 Watts
Bit Error Rate	10 ⁻¹⁴
System Latency	< 1 ms
Warranty	3-Year

Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	OptivaView® SNMP Management Suite*

- * Requires OptivaView SNMP Controller Card (Model: OPV-CTRL)

Compliance

