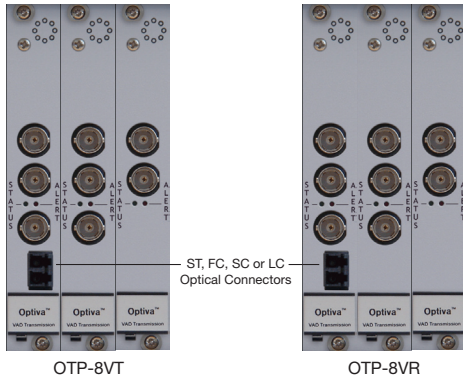


DATASHEET FIBER OPTICS



## 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

## Applications

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

## Composite Video Transmission

The OTS-8V provides for the digital transmission of 8 channels of 12-Bit Composite Video, at broadcast quality.

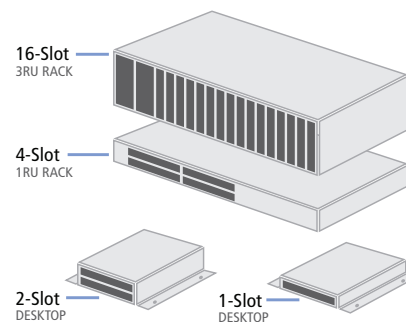
The OTP-8V is an excellent choice for transporting composite video signals over long or short distances over a single optical fiber. The system offers the complete flexibility needed for transporting fully digital composite video over one fiber. Additionally, the OTP-8V is part of the innovative Optiva Series Video, Audio and Data Media Transport System. New signals may be added or fully redundant optical transport solutions may be developed.

## 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



**DATASHEET** **FIBER OPTICS**

## Models

Transmitter	Receiver
OTP-8VT-B0-XX-IC	OTP-8VR-B0-XX-IC
OTP-8VT-B1-XX-IC	OTP-8VR-B1-XX-IC
OTP-8VT-B2-XX-IC	OTP-8VR-B2-XX-IC
OTP-8VT-B2D-XX-IC	OTP-8VR-B2D-XX-IC
OTP-8VT-B2H-XX-IC	OTP-8VR-B2H-XX-IC
OTP-8VT-B3-XX-IC	OTP-8VR-B3D-XX-IC
OTP-8VT-L4x1-XX-IC	OTP-8VR-L4x1-XX-IC
OTP-8VT-NOC-IC	OTP-8VR-NOC-IC

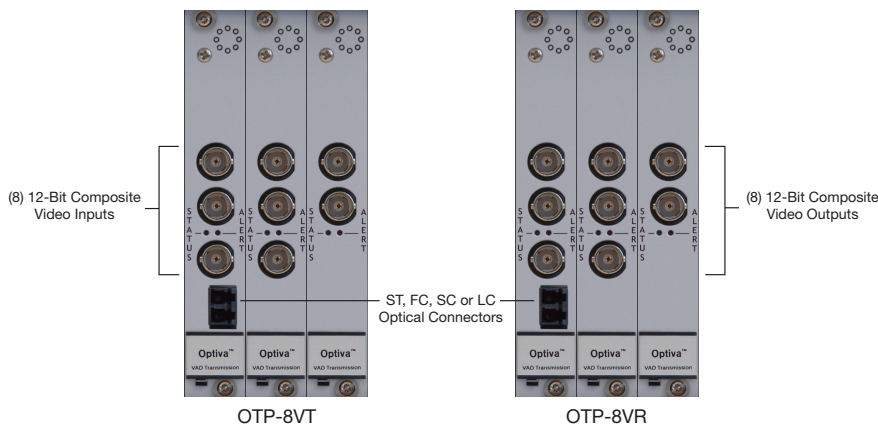
- When ordering, please substitute the "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.
- Standard SC connector type is UPC. APC is available upon request.

## Optical Specifications

Code	Fiber Type	Wavelength	Optical Budget	Distance
B0	Multimode	850 nm	7 dB	0.3 km
B1	Multimode	1310 nm	5 dB	1 km
B2	Singlemode	1310 nm	7 dB	10 km
B2D	Singlemode	1310 nm	12 dB	20 km
B2H	Singlemode	1310 nm	25 dB	60 km
B3	Singlemode	1550 nm	17 dB	40 km
B3D	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 <sup>-14</sup>
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

