

7707CVT-8

Eight Analog Video Fiber Transmitter

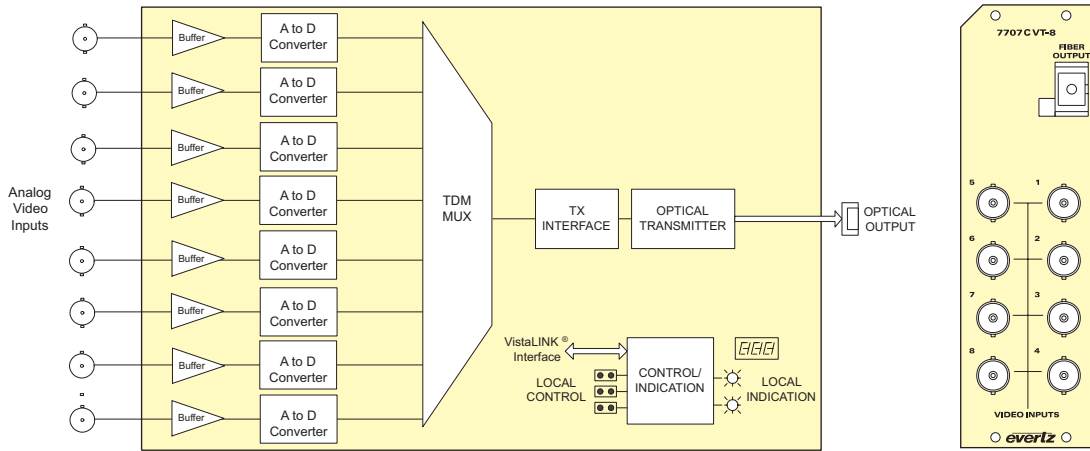
The 7707CVT-8 is a VistaLINK® -capable, composite analog video fiber transmitter for broadcast quality video signals. This single card module accepts eight NTSC or PAL analog video inputs, performs analog to digital conversion and transmits them over a single fiber. The companion 7707CVR-8 Analog Video Fiber Receiver demultiplexes the signals and converts them back to analog form.

The fiber optic output of the 7707CVT-8 is available in an assortment of optical wavelengths, accommodating 1310nm/1550nm, CWDM and DWDM transmission schemes.

The 7707CVT-8 occupies two card slots and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 7 modules, a 350FR portable frame which holds up to 3 modules, or a standalone enclosure which will hold 1 module.

► Features & Benefits

- Single card fiber optic transmitter for up to eight analog video signals
- Supports both NTSC and PAL video signals
- Broadcast quality analog video performance
- Meets or exceeds EIA/TIA RS250-C short haul specifications for analog video transport
- Signal transport over fiber is uninterrupted by loss of input video feeds
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®
- VistaLINK® capability is available when modules are used with the 3RU 7800FR or 350FR portable frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame.
- Adjustable equalization for up to 250m of Belden 1694A coaxial cable
- Fully hot-swappable from front of frame with no fiber disconnect/reconnect required
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- Optical output wavelengths of 1310nm, 1550nm, and up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant)
- DWDM wavelengths (ITU-T G.694.1 compliant) also available



► Specifications

Analog Video Input:		Chroma/Luma Delay:	Electrical:
Standards:	NTSC, SMPTE 170M, PAL, ITU-R 624-4	NTSC: < 5ns	Voltage: +12V DC
Number of Inputs:	8	PAL: < 12ns	Power: 13W (Non-DWDM)
Connector:	BNC per IEC 61169-8 Annex A	Line Time Distortion: 1.2%	15W (DWDM)
Signal Quantization:	12 bits	Optical Outputs:	Physical (number of slots):
System Bandwidth:	5.5MHz	Number of Outputs: 1	350FR: 2
Input Level:	2 Vp-p (Maximum)	Connector: Female SC/PC, SC/PC, ST/PC or FC/PC	7700FR-C: 2
Gain Equalization:	up to 250m of Belden 1694A or equivalent (adjustable)	Return Loss: > 14dB	7800FR: 2
Input impedance:	75Ω	Wavelengths:	Compliance:
Return Loss:	> 30dB to 5.5MHz	Standard: 1310nm, 1550nm (nominal)	Laser Safety: Class 1 laser product
Signal/Noise Ratio:	> 70dB	CWDM: See Ordering Information	Complies with 24 CFR
Differential Gain:	< 1.0 %	DWDM: See Ordering Information	1040.10 and 1040.11 IEC
Differential Phase:	< 0.7 °	Output Power:	60825-1
Passband Ripple:		1310nm FP (Standard): -7dBm ± 1dBm	Complies with FCC Part 15,
NTSC:	< ± 0.1dB to 4.1MHz	1550 & CWDM DFB: 0dBm ± 1dBm	Class A EU EMC directive
	< ± 0.2dB to 5.5MHz	DWDM: +7dBm ± 1dBm	
PAL:	< ± 0.1dB to 4.8MHz		
	< ± 0.2dB to 5.8MHz		
Chroma/Luma Gain:	98% to 103%		

► Ordering Information

7707CVT13-8	Eight Analog Video Fiber Transmitter 1310nm FP Laser, VistaLINK®
7707CVT15-8	Eight Analog Video Fiber Transmitter 1550nm DFB Laser, VistaLINK®
<i>For CWDM, please refer to the end of the fiber section for ordering information</i>	
7707CVTxxx-8	Eight Analog Video Fiber Transmitter CWDM DFB Laser, VistaLINK®
<i>For DWDM, please refer to the end of the fiber section for ordering information</i>	
7707CVTDxxx-8	Eight Analog Video Fiber Transmitter DWDM DFB Laser, VistaLINK®

Rear Plate Suffix	
+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Connector Suffix	
+SC	SC/PC
+ST	ST/PC
+FC	FC/PC

Ordering Options Rear Plate and Fiber Connector must be specified at time of order
Eg: Model +SC +3RU

Enclosures:	
350FR	3RU Portable Multiframe which holds up to 7 single slot modules
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7800FR	3RU Multiframe which holds up to 15 single slot modules
7801FR	1RU Multiframe which holds up to 4 single or 2 dual slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone Enclosure