7707CVT-4, 7707CVT-4-A16

Quad Analog Video, 16 Channel Analog Audio Fiber Transmitter

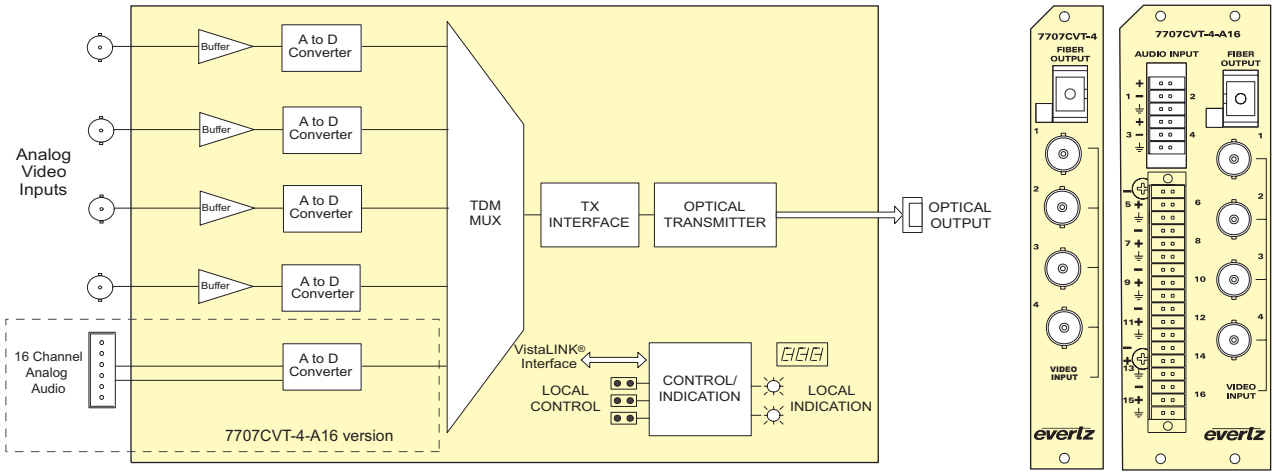
The 7707CVT-4 and 7707CVT-4-A16 are VistaLINK® -capable, composite analog video fiber transmitters for broadcast quality analog video and 16 analog audio signals. These card modules accept up to 4 NTSC or PAL analog video inputs and 16 analog audio, performs analog to digital conversion and transmits them over a single fiber. The companion 7707CVR-4 and 7707CVR-4-A16 Fiber Receiver demultiplexes the signals and converts them back to analog form.

The fiber optic output of these modules are available in an assortment of optical wavelengths, accommodating 1310nm, 1550nm, CWDM and DWDM transmission schemes.

The 77707CVT-4 occupies a single slot where as the 707CVT-4-A16 occupies two card slots and can be housed in a 1RU frame which will hold up to 3 modules, a 7800FR 3RU frame which will hold up to 15 single slot modules, a 350FR portable frame which will hold up to 7 single slot modules or a standalone enclosure that will hold 1 module.

Features & Benefits

- Single card fiber optic transmitter for up to four analog video and 16 analog audio signals
- Supports both NTSC and PAL video signals
- Broadcast quality analog video and audio 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®
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- 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
- 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



The Complete Solution Provider

Specifications

Analog Video Input:

Standards:	NTSC, SMPTE 170M, PAL, ITU-R 624-4
Number of Inputs:	4
Connector:	1 BNC per IEC 61169-8 Annex A
Signal Quantization:	12 bits
System Bandwidth:	5.5MHz
Input Level:	2V p-p (maximum)
Gain Equalization:	up to 250m of Belden 1694A or equivalent (adjustable)
Input impedance:	75Ω
Return Loss:	> 30dB to 5.5MHz
Signal/Noise Ratio:	> 70dB
Differential Gain:	< 1.0%
Differential Phase:	< 0.7°
Passband Ripple:	
NTSC:	< ±0.1dB to 4.1MHz
	< ±0.2dB to 5.5MHz
PAL:	< ±0.1dB to 4.8MHz
	< ±0.2dB to 5.8MHz
Chroma/Luma Gain:	98% to 103%
Chroma/Luma Delay:	
NTSC:	< 5ns
PAL:	< 12ns
Line Time Distortion:	1.2%

Analog Audio Inputs (7707CVT-4-A16):

Number of Inputs:	16
Type:	Balanced analog audio
Connector:	48-pin removable terminal block
Input Impedance:	High Impedance (> 20kΩ)
Freq. Response:	±0.1dB, 20Hz to 20kHz
THD 20Hz-20kHz:	< 0.005%
Channel Phase Diff.:	±1°
SNR (weighted):	> 85dB
Max. Audio Input Level:	
	+24dBu
Signal Quantization:	24 Bits

Optical Outputs:

Number of Outputs:	1
Connector:	Female SC/PC, ST/PC or FC/PC
Return Loss:	> 14dB
Wavelengths:	
Standard:	1310nm, 1550nm (nominal)
CWDM:	See Ordering Information
DWDM:	See Ordering Information
Output Power:	
1310nm FP (Standard):	
	-7dBm ±1dBm
1550 & CWDM DFB:	0dBm ±1dBm
DWDM DFB:	+7dBm ±1dBm

Electrical:

Voltage:	+12V DC
Power:	11/12W (Non-DWDM)
	13/14W (DWDM)

Physical (number of slots):

7707CVT-4	
350FR:	1
7700FR-C:	1
7800FR:	1
7707CVT-4-A16	
350FR:	2
7700FR-C:	2
7800FR:	2

Compliance:

Laser Safety:	Class 1 laser product Complies with 24 CFR 1040.10 and 1040.11 IEC 60825-1
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC directive

Ordering Information

7707CVT13-4	Quad Analog Video Fiber Transmitter 1310nm FP Laser, VistaLINK®
7707CVT15-4	Quad Analog Video, Fiber Transmitter 1550nm DFB Laser, VistaLINK®
7707CVT13-4-A16	Quad Analog Video, 16 Analog Audio Fiber Transmitter 1310nm FP Laser, VistaLINK®
7707CVT15-4-A16	Quad Analog Video, 16 Analog Audio Fiber Transmitter 1550nm DFB Laser, VistaLINK®
For CWDM, please refer to the end of the fiber section for ordering information	
7707CVTxx-4	Quad Analog Video Fiber Transmitter CWDM DFB Laser, VistaLINK®
7707CVTxx-4-A16	Quad Analog Video, 16 Analog Audio Fiber Transmitter CWDM DFB Laser, VistaLINK®
For DWDM, please refer to the end of the fiber section for ordering information	
7707CVTDxxx-4	Quad Analog Video Fiber Transmitter DWDM DFB Laser, VistaLINK®
7707CVTDxxx-4-A16	Quad Analog Video, 16 Analog Audio Fiber Transmitter DWDM DFB Laser, VistaLINK®

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