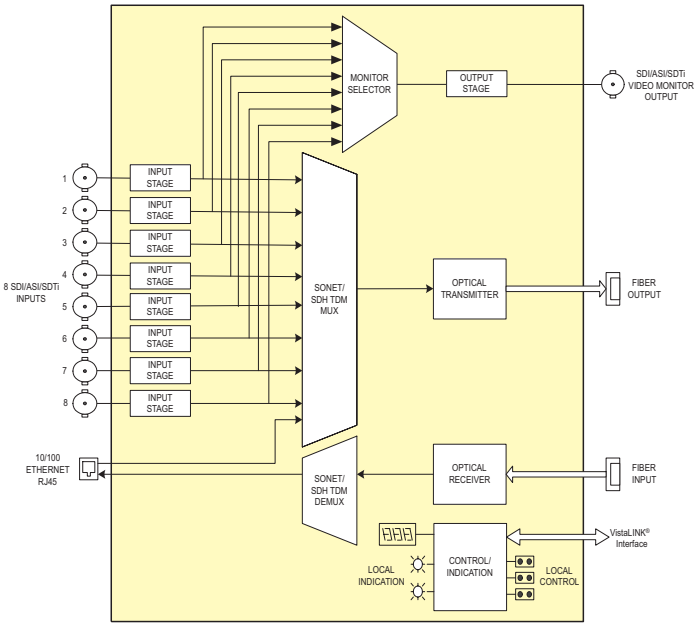
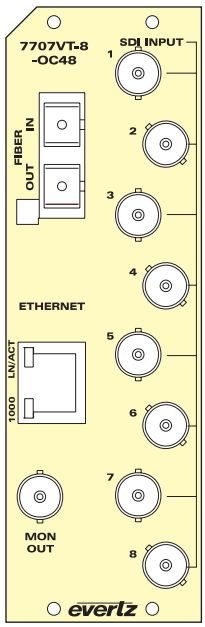
7707VT-8-OC48

Eight Channel SDi + Ethernet SONET / SDH Fiber Transmitter

Features & Benefits

- Transports signals over OC-48/STM-16 data rates (2.488Gb/s)
- Single card TDM multiplexer for eight asynchronous SD-SDI, SDTi and DVB-ASI signals
- Built-in Ethernet transceiver with one 10/100 Base-T port
- Interfaces directly to SONET/SDH infrastructure
- Uncompressed, full-rate video transport
- Signal transport over fiber uninterrupted by loss of any input feed
- Transparently passes embedded AES or any other data in the horizontal or vertical ancillary data space
- Stratum 3 wander/holdover/jitter compliance
- Wide input frequency range tolerance (±50ppm)
- Fully hot-swappable from front of frame
- 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 wavelength (ITU-T G.694.1 compliant) support
- SC/PC, ST/PC, FC/PC connector options
- 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 frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Occupies two card slots and can be housed in either a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 7 modules and 350FR portable frame that holds up to 3 modules





Specifications

Serial Video Input:

Standards:	SMPTE 259M-C, DVB-ASI, SMPTE 305M (SDTi)
Number of Inputs:	8
Connector:	1 BNC per IEC 61169-8 Annex A
Equalization:	Automatic to 250m @ 270Mb/s with Belden 1694A or equivalent cable
Return Loss:	> 15dB up to 1.5Gb/s
Frequency Offset Tolerance:	±50ppm

Serial Video Monitor Output:

Standards:	SMPTE 259M-C, DVB-ASI, SMPTE 305M, (SDTi)
Number of Outputs:	1, signal user-selectable from the 8 inputs
Connector:	1 BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	900ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 12dB
Wideband Jitter:	< 0.2 UI

Optical Output:

Standards:	OC-48/STM-16
Number of Outputs:	1
Connector:	Female SC/PC, ST/PC or FC/PC
Return Loss:	> 14dB
Wideband Jitter:	< 0.2 UI
Fiber Size:	9µm core/125µm overall
Wavelength:	
Standard:	1310nm, 1550nm (nominal)
CWDM:	1270nm to 1610nm (See Ordering Information)
DWDM:	C-Band (ITU-T G.694.1 Compliant) (See Ordering Information)

Power:

1310nm FP (Standard):	-6dBm ±1dBm
1550nm & CWDM DFB:	0dBm ±1dBm
DWDM DFB:	+7dBm ±1dBm

Optical Input:

Number of Inputs:	1
Standards:	OC-48/STM-16
Connector:	Female SC/PC, ST/PC or FC/PC
Return Loss:	> 25dB
Wavelength:	1270nm to 1610nm
Maximum Input Power:	
Standard:	-1dBm
High Sensitivity (-H):	-8dBm
Optical Sensitivity:	
Standard:	-23dBm

Electrical:

Voltage:	+12V DC
Power:	10W (non DWDM) 13W (DWDM)

Physical (number of slots):

350FR:	2
7700FR-C:	2
7800FR:	2

Compliance:

Laser Safety:	Complies with 24 CFR 1040.10 and 1040.11
EMI/RFI:	Complies with FCC regulations for Class A devices Complies with EU EMC directive

Ordering Information

7707VT13-8-OC48 Eight Channel SDI + Ethernet SONET/SDH Fiber Transmitter, 1310nm FP laser, VistaLINK®

For CWDM applications please refer to the end of the fiber section for details

7707VTxx-8-OC48 Eight Channel SDI + Ethernet SONET/SDH Fiber Transmitter, CWDM DFB laser, VistaLINK®

For DWDM applications please refer to the end of the fiber section for details

7707VTDxxx-8-OC48 Eight Channel SDI + Ethernet SONET/SDH 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

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

The Complete Solution Provider

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