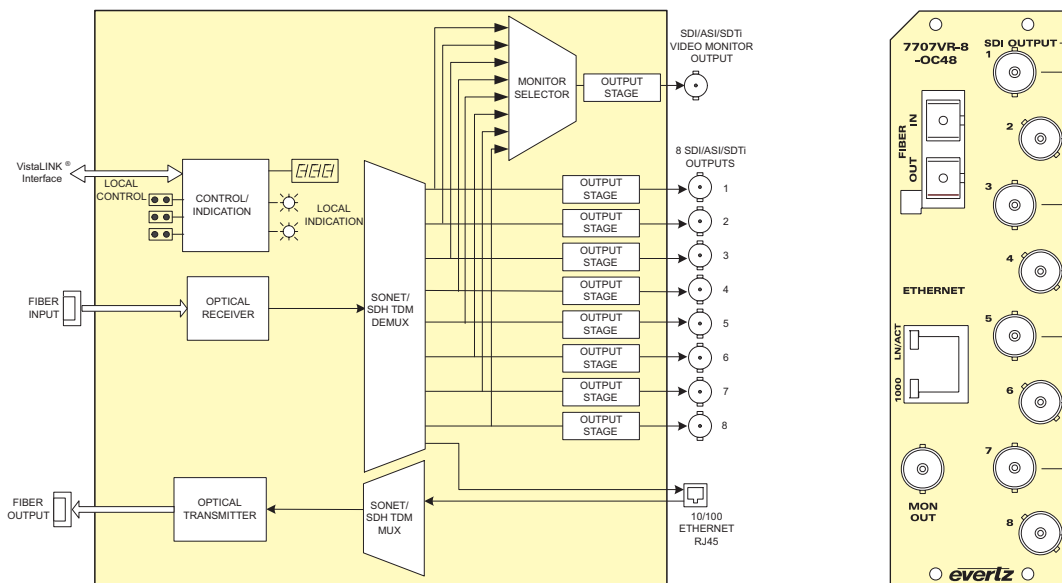




## ► Features & Benefits

- 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 ( $\pm 50$ ppm)
- 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 3RU frame which will hold up to 7 modules or the 350FR portable frame which has a 3 slot capacity



## ► Specifications

### Serial Video Output:

Standards: SMPTE 259M-C, DVB-ASI, SMPTE 305M (SDTi)  
 Number of Outputs: 8 (+1 monitor with user-selectable source)  
 Connector: 1 BNC per IEC 61169-8 Annex A  
 Signal Level: 800mV nominal  
 DC Offset: 0V  $\pm 0.5$ V  
 Rise and Fall Time: 900ps nominal at 270Mb/s  
 Overshoot: < 10% of amplitude  
 Return Loss: > 12dB  
 Wideband Jitter: < 0.2 UI

### 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  $\pm 0.5$ V  
 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: 9 $\mu$ m core/125 $\mu$ m 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  $\pm 1$ dBm  
 1550nm & CWDM DFB: 0dBm  $\pm 1$ dBm  
 DWDM DFB: +7dBm  $\pm 1$ dBm

### Optical Input:

Standards: OC-48/STM-16  
 Number of Inputs: 1  
 Connector: Female SC/PC, ST/PC or FC/PC  
 Return Loss: > 25dB

Wavelength: 1270nm to 1610nm  
 Maximum Input Power:  
 Standard: -1dBm  
 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

**7707VR13-8-OC48** Eight Channel SDI + Ethernet SONET/SDH Fiber Receiver, 1310nm FP laser, VistaLINK®

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

**7707VRxx-8-OC48** Eight Channel SDI + Ethernet SONET/SDH Fiber Receiver, CWDM DFB laser, VistaLINK®

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

**7707VRDxx-8-OC48** Eight Channel SDI + Ethernet SONET/SDH Fiber Receiver, 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