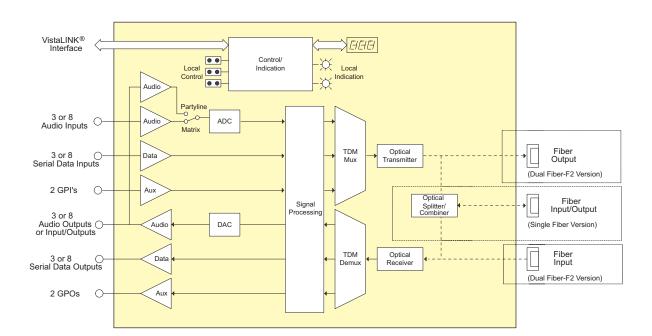
## ▶ Features & Benefits

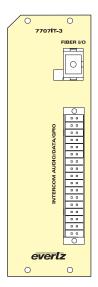
- Extends up to 3 or 8 independent channels of intercom communication over a single fiber optic link
- · Configurable interface to:
- RTS-Telex Matrix: 4-Wire Audio, RS-485 Data, GPIO
- ClearCom Matrix: 4-Wire Audio, RS-422 Data, GPIO
- RTS-Telex Party-Line: 2-Wire Audio, GPIO
- ClearCom Party-line: 2-Wire Audio, GPIO

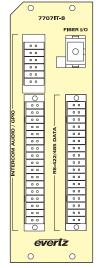
Note: Does not perform conversion between 2-Wire and 4-Wire systems

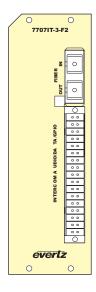
- · Independent channels can simultaneously accommodate different intercom types
- User-friendly selection of intercom interfaces via programmed profiles
- All configurations and adjustments are controllable through the card-edge user interface or remotely via SNMP and VistaLINK® -capable capability
- Selectable termination, and failsafe bias settings for RS-422/485 data inputs
- Provides 2 general-purpose inputs (GPIs), and 2 general purpose outputs (GPOs)

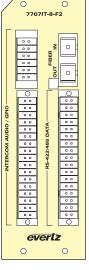
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®
- VistaLINK® capability is available when modules are used with the 3RU 7800FR or 350FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Optical output 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
- Compatible with single-mode and multi-mode fiber optic cable (dual fiber version)
- · Fully hot-swappable from front of frame
- Occupies two card slots and is housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 7 modules, 3RU portable frame that holds up to 3 modules or a standalone frame which will hold 1 module.















## **▶**Specifications

Analog Audio: Balanced/Matrix Type Audio Number of Signals:

7707IT-3: 3 inputs, 3 outputs 7707IT-8: 8 inputs, 8 outputs Analog Audio, Balanced Type: Industry Standards: ClearCom, RTS-Telex

Multi-pin removable terminal block Connector:

Input Impedance: > 10kO Output Impedance:  $66\Omega$ Signal Resolution: 24-bit Sampling Rate: 52.7kHz Frequency Response: 20Hz to 20kHz

Gain Flatness: Input Level (max): +20dBu Output Level (max):

Into 10KW +20dBu Into 600W +19dBu Signal/Noise Ratio: > 90dB < 0.01% THD. Crosstalk < -80dB Controllable Gain: -10dB to +10dB

Unbalanced/Party-Line Type Audio:

Number of Signals 7707IT-3: 7707IT-8:

Analog Audio, Full-duplex, Unbalanced Type:

Industry Standards: ClearCom, RTS-Telex

Connector Multi-pin removable terminal block Signal Coupling: AC coupled (accommodates 30V 'wet' inputs)

Bridging Impedance: > 10kO 24-bit Signal Resolution: Sampling Rate: 52.7kHz Sidetone Null Range:  $100\Omega \text{ to } 300\Omega \text{ load}$ 

Frequency Response:

120Hz to 20kHz Gain Flatness: +2dB

+5dBu Input Level(max): Output Level(max): +5dBu (into 200W load)

Signal/Noise Ratio: > 75dB THD: < 0.1%

< -60dB Crosstalk: Controllable Gain: -5dB to +5dB (into 200W load)

Receive Signaling: 4V DC min (ClearCom), 20kHz ±500Hz (RTS)

11V DC min (ClearCom), 20kHz Send Signaling:

±100Hz (RTS)

Serial Data:

RS-422 /RS-485 Type Data Number of Signals: 7707IT-3: 7707IT-8:

Connector: Multi-pin removable terminal block Signal Type: RS-485 or RS-422 (selectable) Input Termination: 120Ω or Open (selectable) Input Failsafe Bias: 200mV (3.3mA into  $60\Omega$ ) or none

(selectable)

RS485: Compatible with all Telex RS485 rates

RS-422: 460kb/s

Optical Input/Output:

1 (Standard and -W Single Fiber Version) 2 (-F2 Dual Fiber Version)

Connector at Frame: SC/PC, ST/PC, FC/PC female housing

Input Wavelength: 1270nm to 1610nm

Max. Input Power: 0dBm Output Wavelengths:

Standard: 1310nm, 1550nm (nominal) CWDM: 1270nm to 1610nm (ITU-T G.694.2 compliant)

C-Band (ITU-T G.694.1 compliant) DWDM:

Output Power: 1310nm FP: -7dBm ±1dBm

1310nm (-W): -1dBm ±1dBm 1550nm, CDWM (DFB): 0dBm ± 1dBm

DWDM (DFR): +7dBm ± 1dBm

Optical Sensitivity:

WDM (-w version) -26dBm Standard: -28dBm

General Purpose Outputs (GPO):

Number of Signals: 2 Outputs Connector: Multi-pin removable terminal block

Output Type Dry contact relay closure, normally open Output Current (min):

100mA

General Purpose Inputs (GPI):

Number of Signals: 2 Inputs Multi-pin removable terminal block Connector:

Opto-isolated, Active low

GPI Input Voltage: Safe Voltage Range:

-20V to +10V On Condition (max):

< +2.5V(active low) Off Condition (min):

> +3.5V

GPI Input Current (min): 1mA GPI Input Current (max):

10mA (internally limited)

Electrical:

12V DC (nominal frame voltage) Voltage(type): 7707IT-3 (Non DWDM) = 7W 7707IT-3 (DWDM) = 9W7707IT-8 (Non DWDM) = 18W 7707IT-8 (DWDM) = 20W

**Physical (number of slots):** 350FR: 2

7700FR-C: 7800FR: 2

Compliance:

Laser Safety: Class 1 laser product

Complies with 24 CFR 1040.10 and

1040.11

FMI/RFI: Complies with FCC Part 15, Class A

EU EMC directive

## **▶**Ordering Information

7707IT15-3-W

7707IT13-3-F2

7707IT13M-8-W

3 Channel Intercom Fiber Transceiver, single fiber, WDM, 1310nm FP TX, RX on 1550nm 3 Channel Intercom Fiber Transceiver, single fiber, WDM, 7707IT13M-3-W

1550nm DFB TX, RX on 1310nm

3 Channel Intercom Fiber Transceiver, dual fiber, 1310nm FP TX & RX 8 Channel Intercom Fiber Transceiver, single fiber, WDM

1310nm FP TX, RX on 1550nm

8 Channel Intercom Fiber Transceiver, single fiber, WDM 1550nm DFB TX, RX on 1310nm 7707IT15-8-W

7707IT13-8-F2 8 Channel Intercom Fiber Transceiver, dual fiber, 1310nm FP TX & RX

For CWDM, please refer to the end of the fiber section for ordering information 3 Channel Intercom Fiber Transceiver, dual fiber, CWDM TX, VistaLINK<sup>8</sup> 8 Channel Intercom Fiber Transceiver, dual fiber, CWDM TX, VistaLINK<sup>8</sup> 7707ITxx-3-F2 7707ITxx-8-F2

For DWDM, please refer to the end of the fiber section for ordering information
7707ITDxxx-3-F2 3 Channel Intercom Fiber Transceiver, dual fiber, DWDM TX, VistaLINK 7707ITDxxx-3-F2 7707ITDxxx-8-F2 8 Channel Intercom Fiber Transceiver, dual fiber, DWDM TX, VistaLINK **Ordering Options** 

Rear Plate and Fiber Connector must be specified at time of order

Eq. Model +3RU +SC

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 3RU Multiframe which holds up to 15 single slot modules 7800FR 7701FR 1RU Multiframe which holds up to 3 single or dual slot modules S7701FR

Standalone Enclosure

