

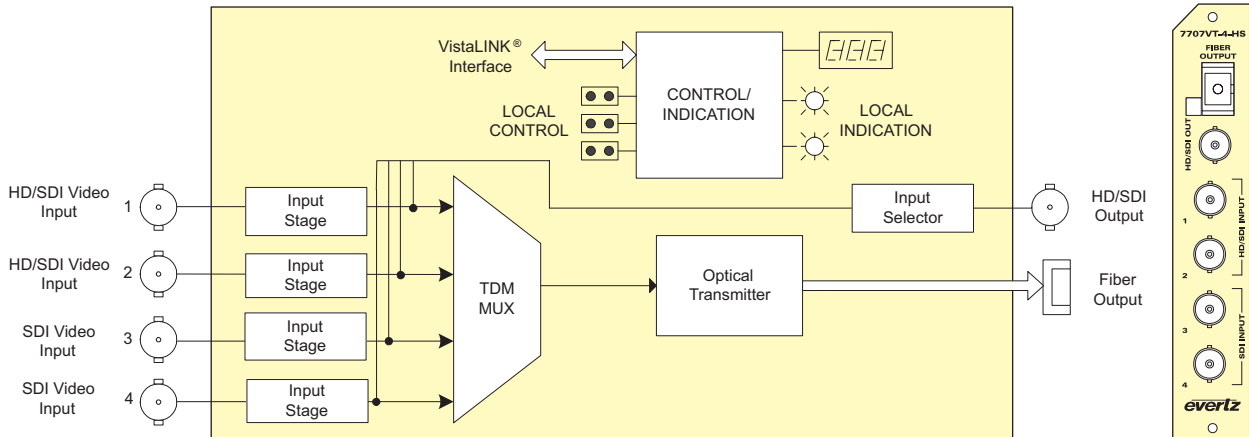
7707VT-4-HS

Quad SD / Dual HD Fiber Transmitter



Features & Benefits

- Single card TDM multiplexer for two HD-SDI signals, or one HD-SDI signal and three SDI/DVB-ASI signals, or four SDI/DVB-ASI signals
- Two auto-sensing video inputs for HD-SDI or SDI/DVB-ASI video signals
- Two 270Mb/s inputs for SDI or DVB-ASI video signals
- Signal transport over fiber uninterrupted by loss of any HD-SDI, SDI, SDTI or DVB-ASI input feed
- Transparently passes embedded AES or any other data in the horizontal or vertical ancillary data space
- Fully hot-swappable from front of frame
- 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
- Automatic coaxial input equalization up to 130m at 1.485Gb/s and 250m at 270Mb/s (Belden 1694A)
- 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
- SC/PC, ST/PC, FC/PC connector options
- Can be housed in either a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 15 modules, 350FR portable frame that holds up to 7 modules or a standalone frame which will hold 1 module



Specifications

Serial Video Input:

Number of Inputs: 2 HD/SDI/DVB-ASI and 2 SDI/DVB-ASI video signals
 Standard:
 Inputs 1&2: SMPTE 292M, SMPTE 259M-C, DVB-ASI
 Inputs 3&4: SMPTE 259M-C, DVB-ASI
 Connector: 4 BNC per IEC 61169-8 Annex A
 Equalization: Automatic to 100m @ 1.485Gb/s and 250m @ 270Mb/s with Belden 1694A or equivalent cable
 Return Loss: > 15dB up to 1.5Gb/s

Serial Video Output:

Number of Outputs: 1, loopback signal user-selectable from above 4 inputs
 Connector: 1 BNC per IEC 61169-8 Annex A
 Standards: SMPTE 292M, SMPTE 259-C, SMPTE 305.2M
 Signal Level: 800mV nominal
 DC Offset: 0V ±0.5V
 Rise and Fall Time: < 270ps at 1.485Gb/s and 900ps nominal at 270Mb/s
 Overshoot: < 10% of amplitude
 Return Loss: > 12dB to 1.5Gb/s
 Wideband Jitter: < 0.2 UI

Optical Output:

Number: 1
 Connector: Female SC/PC, ST/PC or FC/PC
 Return Loss: > 14dB
 Rise and Fall Time: 200 ps nominal
 Wideband Jitter: < 0.2 UI
 Fiber Size: 9µm core/125mm overall
 Wavelengths:
 Standard: 1310nm, 1550nm (nominal)
 CWDM: 1270nm to 1610nm (See Ordering Information)
 DWDM: C-Band (ITU-T G.694.1 compliant) (See Ordering Information)

Output Power:

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

Electrical:

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

Physical (number of slots):

350FR: 1
 7700FR-C: 1
 7800FR: 1

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

7707VT13-4-HS Quad SD/Dual HD Fiber Transmitter, 1310nm FP, VistaLINK®
7707VT15-4-HS Quad SD/Dual HD Fiber Transmitter, 1550nm DFB, VistaLINK®

For CWDM, please refer to the end of the fiber section for ordering information
7707VTxx-4-HS Quad SD/Dual HD Fiber Transmitter, CWDM Laser, VistaLINK®

For DWDM, please refer to the end of the fiber section for ordering information
7707VTDxx-4-HS Quad SD/Dual HD Fiber Transmitter, DWDM 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
7701FR 1RU Multiframe which holds up to 3 single or dual slot modules
7801FR 1RU Multiframe which holds up to 4 single or 2 dual slot modules
S7701FR Standalone Enclosure