

7708LT

Wideband RF Fiber Transmitter with VistaLINK® Monitoring and SmartMON™

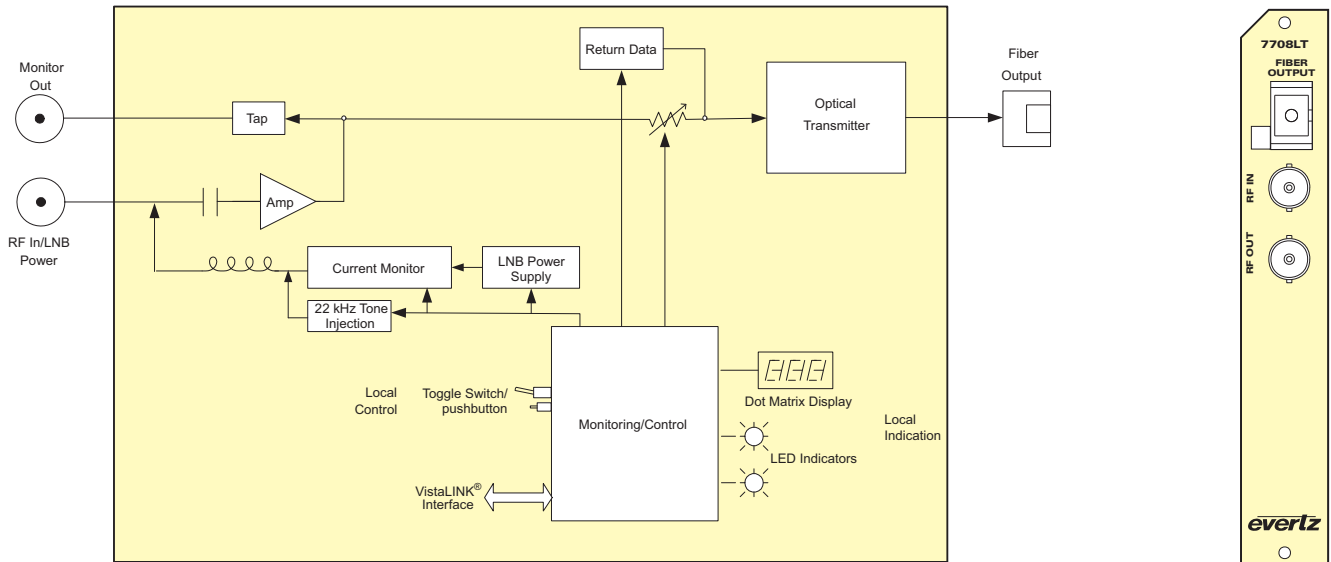


The 7708LT is a fiber optic transmitter for RF signals in the extended L-Band or wider frequency range. It accepts a single RF input on coaxial cable and provides a single output for optical transmission. An RF monitor output provides a convenient means of obtaining peak satellite signal strength, or additional signal distribution.

Gain may be adjusted manually or managed automatically via AGC. With SmartMON™, incoming RF signal strength, LNB current and other data are relayed over the fiber output for monitoring through SNMP/VistaLINK® (requires SmartMON™ capable companion fiber receiver) 13/18V DC adjustable LNB power with 22kHz tone is also provided.

Features & Benefits

- Extended frequency response for extended L-Band, off-air DTV, and other signals
- Protocol independent design — transports all modulation formats
- LNB power with selectable 13/18V DC
- LNB current limit and short circuit protection
- LNB current monitoring for advance warning of LNB failure
- 22kHz tone on/off for LNB local oscillator control
- RF monitor output for signal peaking and signal distribution
- Manual gain and AGC modes
- Wide range adjustable gain in 0.5dB steps for fine tuning signal levels and optimizing CNR
- Available with 1310nm, CWDM (ITU-T G.694.2) and +11dBm high power DWDM (ITU-T G.694.1) laser options
- SmartMON™ capability provides remote status monitoring via SNMP without a separate data connection
- VistaLINK® capability is available for monitoring and control when modules are used in a 3RU 350FR, 7800FR frame and a 7700FC VistaLINK® frame controller is installed in Slot 1 of the frame
- Fiber link provides electrical isolation between antenna and facility, mitigating ground loop and lightning issues
- The 7708LT occupies one card slot and can be housed in a 1RU frame that will hold up to 3x modules, a 3RU frame that will hold up to 15x modules, a 350FR which will hold up to 7x modules or a standalone enclosure, which holds one module



Specifications

<p>RF Input: Number of Inputs: 1 Connector: BNC per IEC 61169–8 Annex A (F-Type and SMA Optional) 75Ω (50Ω Optional)</p> <p>Input Impedance: 75Ω (50Ω Optional) Frequency Range: 88–3000MHz Return Loss: 88–3000MHz 120MHz–2.3GHz: > 14dB 2.3–3GHz: > 12dB</p> <p>Input Power Range: –10dBm to –60dBm Gain Range: 0 to +30dBm in 0.5dB steps IMD: < –55dBc at –15dBm input and 0dB gain +10dBm</p> <p>Input IP3: +10dBm LNB Power: Voltage: 13V DC, 18V DC, off (selectable) Current: 400mA Protection: Short Circuit, current limited LO Control: 22kHz on/off (selectable)</p> <p>RF Monitor Output: Number of Outputs: 1 Connector: BNC per IEC 61169–8 Annex A (F-Type and SMA Optional)</p>	<p>Output Impedance: 75Ω (50Ω Optional) Return Loss: > 15dB Frequency Range: 88–3000MHz Output Level: Within –2.0dB of input signal</p> <p>Optical Output: Number of Outputs: 1 Connector: Female SC/UPC, ST/UPC, FC/UPC, SC/APC, FC/APC</p> <p>Operating Wavelength: Standard: 1310nm DFB CWDM: 1270–1610nm DWDM: C-Band (ITU G.694.1 compliant)</p> <p>Output Power: Standard 1310nm: +2dBm CWDM: +2dBm DWDM: +11dBm</p> <p>RF System Performance 7708LT+7708LRA pair: Frequency Response: 950–2150MHz: ± 1.5dB 120MHz–3GHz: ± 2dB ±0.25dB on 36MHz BW to 2.3GHz</p>	<p>RF System Performance 7708LT+7708LR–H pair: Frequency Response: 950–2150MHz: ± 1.5dB 120MHz–2.3GHz: ± 2dB ±0.25dB on 36MHz BW</p> <p>Electrical: Voltage: +12V DC Power: 6W max excluding LNB Power</p> <p>Physical (number of slots): 350FR: 1 7700FR–C: 1 7800FR: 1</p> <p>Compliance: Laser safety: Class 1 laser product Complies with 24 CFR 1040.10 and 1040.11, IEC 60825–1 Complies with FCC Part 15, Class A EU EMC directive</p> <p>EMI/RFI:</p>
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The Complete Solution Provider



Ordering Information

7708LT13	Wideband RF Fiber Transmitter, 1310nm DFB laser, SmartMON™, VistaLINK®
7708LT13-B50	Wideband RF Fiber Transmitter, 1310nm DFB laser, 50Ω BNC Connectors, SmartMON™, VistaLINK®
7708LT13-S50	Wideband RF Fiber Transmitter, 1310nm DFB laser, 50Ω SMA Connectors, SmartMON™, VistaLINK®
<i>For CWDM, please refer to the end of the fiber section for ordering information</i>	
7708LTxx	Wideband RF Fiber Transmitter, CWDM DFB laser, SmartMON™, VistaLINK®
7708LTxxB50	Wideband RF Fiber Transmitter CWDM DFB laser, 50Ω BNC Connectors, SmartMON™, VistaLINK®
7708LTxxS50	Wideband RF Fiber Transmitter CWDM DFB laser, 50Ω SMA Connectors, SmartMON™, VistaLINK®
<i>For DWDM, please refer to the end of the fiber section for ordering information</i>	
7708LTDxxx	Wideband RF Fiber Transmitter, DWDM DFB laser, BNC Connectors, SmartMON™, VistaLINK®
7708LTDxxx-B50	Wideband RF Fiber Transmitter, DWDM DFB laser, 50Ω BNC Connectors, SmartMON™, VistaLINK®
7708LTDxxx-S50	Wideband RF Fiber Transmitter, DWDM DFB laser, 50Ω SMA Connectors, SmartMON™, VistaLINK®

Ordering Options: rear plate and fiber connector must be specified at time of order (Eg. model +3RU +SC)

Connector Suffix:

+SC	SC/UPC
+AP+SC	SC/APC (Angle polished)
+ST	ST/UPC
+FC	FC/UPC
+AP+FC	FC/APC (Angle polished)
+F75	75Ω, F-Type rear connector

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

Enclosures:

350FR	3RU Portable Multiframe, holds up to 7x single-slot modules
7700FR-C	3RU Multiframe, holds up to 15x single-slot modules
7800FR	3RU Multiframe, holds up to 15x single-slot modules
7801FR	1RU Multiframe, holds up to 4x single- or 2x dual-slot modules
7701FR	1RU Multiframe, holds up to 3x single- or dual-slot modules
S7701FR	Standalone Enclosure

Note: 75Ω BNC Connectors are standard

For companion receiver see the 7708LRA/7708LR-H catalogue page

