

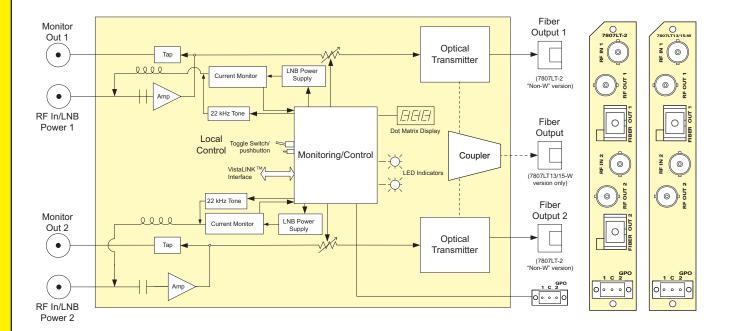


The 7807LT-2 is a dual fiber optic transmitter for RF signals in the extended L-Band or wider frequency range. It accepts two RF inputs from coaxial cable and provides two outputs for optical transmission. An RF monitor output is provided for each input, which offers a convenient means of obtaining peak satellite signal strength, or additional signal distribution. With two optical transmitters per single-slot card, the 7807LT-2 provides a high density economical solution.

Individual monitoring and control is provided for each signal path. 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 outputs for monitoring at the receiver side through SNMP/VistaLINK® (requires SmartMON™ capable companion fiber receiver). 13/18V DC selectable LNB power with 22kHz tone is also provided on each RF input.

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, per input
- · LNB current limit & short circuit protection
- · LNB current monitoring for advance warning of LNB failure
- 22kHz tone on/off for LNB local oscillator control, per input
- RF monitoring output ports for signal peaking and signal distribution
- Manual gain and AGC modes for tuning optimal CNR performance
- Multiple versions of the 7807LT-2 are available to address single-mode/multimode fiber, single/dual fiber and CWDM/DWDM applications.
- The 7807LT13/15-2-W is a dual channel card that features and on-board fiber coupler, requiring only a single fiber for the link (companion receiver is the 7807LR-2-W)
- Dual fiber transmitters on a single-slot card provides the industry's highest density solution
- 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 7800FR frame and a 7700FC VistaLINK® frame controller is installed in slot 1 of the frame
- Form-C dry contact GPO alarm contacts for monitoring
- Fiber link provides electrical isolation between antenna and facility, mitigating ground loop and lightning issues
- Compatible with all 2406LR, 7706LR, 7708LR and 7807LR-2 series receivers
- The 7807LT-2 occupies one card slot and can be housed in a 1RU frame that will hold up to four modules, a 7800FR 3RU frame that will hold up to 15 modules, or a standalone enclosure, which holds one module



Dual L-Band/Wideband RF Fiber Transmitter with VistaLINK® and SmartMON™

▶ Specifications

RF Input:

Number of Inputs:

Connectors BNC per IEC 61169-8 Annex A

(F-Type optional)

Input Impedance: 75Ω

>14dB to 2100MHz Return Loss:

>10dB to 2100MHz to 2800MHz

Frequency Range:

1310nm DFB laser: 850MHz-2800MHz 1550nm/CWDM DFB laser

88MHz-2800MHz Input Power Range:

-10dBm to -60dBm AGC Gain Range: -10 to +30dB Input IP3: +10dBm

LNB Power:

Voltage: 13V DC, 18V DC, off (selectable)

Current: 400mA

Short Circuit, current limited Protection: LO Control: 22kHz on/off (selectable)

RF Monitor Output: Number of Outputs:

Connector: BNC per IEC 61169-8 Annex A

(F-Type optional)

Output Impedance: 75Ω > 15dB Return Loss:

Frequency Range: 88MHz-2800MHz Output Level:

within -2.0dB of input signal

Optical Output: Number of Outputs:

Connector:

Female SC/UPC, ST/UPC, FC/UPC,

SC/APC, FC/APC Operating Wavelength: 1310nm DFB

(1550nm and CWDM optional)

Output Power: Dual Fiber: +2dBm ± 1dBm Single Fiber: -2dBm ± 1dBm

RF System Performance 7807LT-2+7807LR-2 pair:

850MHz-2250MHz +/- 1.5dB 850MHz-2800MHz: (1310nm): +/- 1.5dB 88MHz-2800MHz:

(1550nm/CWDM): +/- 2dB General Purpose Outputs:

Number of Outputs:

Type: "Dry Contact" relay contacts normally open & normally closed

contact provided

Connector 3 pin terminal strip

Electrical

12 VDC Voltage:

Power: 6W excluding LNB power

Physical (number of slots): 7800FR: 7701FR: S7701FR

Compliance: Laser safety:

Class 1 laser product

Complies with 24 CFR 1040.10 and

IEC 60825-1

Complies with FCC regulations for FMI/RFI Class A devices. Complies with EU

EMC directive 89/336/EEC

Ordering Information

7807LT13-2

Dual L-Band RF Fiber Transmitter, 1310nm DFB laser.

SmartMON™, VistaLINK®

7807LT13/15-2-W

(Dual L-Band/Wideband RF Fiber Transmitter, 1310nm & 1550 DFB

laser, onboard coupler with single fiber output, SmartMON™ VistaLINK®. Companion receiver is the 7807LR-2-W

7807LTxx/yy-2 Dual L-Band/Wideband RF Fiber Transmitter, CWDM, DFB Laser, SmartMON™, VistaLINK®

Ordering Options

Rear plate and Fiber Connector must be specified at the time of

order (Eg: Model+3RU+SC)

75Ω, F-Type rear connector

Connector Suffix

+F75

SC/UPC

+AP+SC SC/APC (Angle polished)

+ST ST/UPC

+AP+FC FC/APC (Angle polished)

+FC FC/UPC Rear Plate Suffix

+3RU 3RU Rear Plate for use with 7800FR Multiframe +1RU 1RU Rear Plate for use with 7701FR Multiframe

+SA Standalone Enclosure Rear Plate

Enclosures

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

S7701FR Standalone Enclosure

Note: 75Ω BNC Connectors are standard. Consult factory for 500hm BNC and SMA connector options. Cards are physically compatible with the 7700FR-C frame, but LNB power will be automatically disabled. For companion receiver see the 7807LR-2 catalog page. Also compatible with the 2406LR, 7706LR and 7708LRA/7708LR-H receivers



