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.

### 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/multi-mode 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
***Specifications***

**RF Input:**
- Number of Inputs: 2
- Connectors: BNC per IEC 61169-8 Annex A (F-Type optional)
- Input Impedance: 75Ω
- Return Loss: >14dB to 2100MHz, >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
- Protection: Short Circuit, current limited
- LO Control: 22kHz on/off (selectable)

**RF Output:**
- Number of Outputs: 2
- Connectors: BNC per IEC 61169-8 Annex A (F-Type optional)
- Output Impedance: 75Ω
- Return Loss: > 15dB
- Frequency Range:
  - Dual Fiber: 850MHz-2800MHz (1310nm)
  - Single Fiber: 88MHz-2800MHz (1550nm and CWDM optional)
  - Output Level: within -2.0dB of input signal

**RF System Performance 7807LT-2+7807LR-2 pair:**
- Flatness:
  - 850MHz-2250MHz: +/- 1.5dB
  - 850MHz-2800MHz: +/- 1.5dB (1310nm)
  - 88MHz-2800MHz: +/- 2dB (1550nm/CWDM optional)

**General Purpose Outputs:**
- Number of Outputs: 2
- Type: "Dry Contact" relay contacts – normally open & normally closed contact provided
- Connector: 3 pin terminal strip.

**Electrical**
- Voltage: 12 VDC
- Power: 6W excluding LNB power

**Physical (number of slots):**
- 7800FR: 1
- 7701FR: 1
- S7701FR: 1

**Compliance:**
- Laser safety: Class 1 laser product
- EMIRFI: Complies with 24 CFR 1040.10 and 1040.11 IEC 60825-1.
- Complies with FCC regulations for Class A devices. Complies with EU EMC directive 89/336/EEC.

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### 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®.

**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)
- 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 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.

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