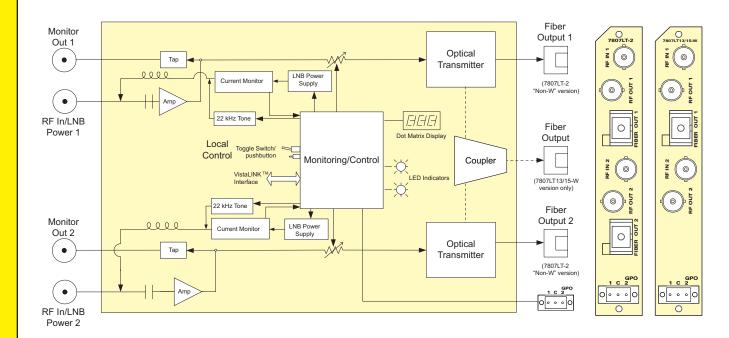


The 7807LT-2 is a dual fiber optic transmitter for RF signals in the extended L-Band or wider frequency range. It accepts two RF inputs from coaxial cable and provides two outputs for optical transmission. An RF monitor output is provided for each input, which offers a convenient means of obtaining peak 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<sup>TM</sup>, incoming RF signal strength, LNB current and other data are relayed over the fiber outputs for monitoring at the receiver side through SNMP/VistaLINK<sup>®</sup> (requires SmartMON<sup>TM</sup> 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 and 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 an 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<sup>®</sup> capability is available for monitoring and control when modules are used in a 3RU 7800FR frame and a 7700FC VistaLINK<sup>®</sup> 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



## **7807LT–2** Dual L–Band/Wideband RF Fiber Transmitter with VistaLINK<sup>®</sup> and SmartMON™

## ▶ Specifications

RF Input:	2	Optical Output:	2	Electrical	10.1/20
lumber of Inputs:	2	Number of Outputs:	2	Voltage:	12 VDC
Connectors:	BNC per IEC 61169–8 Annex A	Connector:	Female SC/UPC, ST/UPC,	Power:	6W excluding LNB power
	(F–Type optional)		FC/UPC, SC/APC, FC/APC		
nput Impedance:	75Ω	Operating Wavelengt		Physical (numbe	r of slots):
Return Loss:	>14dB to 2100MHz		(1550nm and CWDM optional)	7800FR:	1
	>10dB to 2100-2800MHz		DWDM C–Band	7701FR:	1
Frequency Range:	50–2800MHz		(ITU G.694.1 compliant)	S7701FR:	1
nput Power Range:	–10dBm to –60dBm	Output Power:			
AGC Gain Range:	-10dB to +20dB	Dual Fiber:	+2dBm ± 1dBm	Compliance:	
nput IP3:	+10dBm	Single Fiber:	$-2dBm \pm 1dBm$	Laser safety:	Class 1 laser product
		DWDM:	+11dBm		Complies with 24 CFR 1040.10
NB Power:		2			and 1040.11
/oltage:	13V DC, 18V DC, off (selectable)	RF System Performance 7807LT–2+7807LR–2 pair:			IEC 60825–1
Current:	500mA	Flatness:		EMI/RFI:	Complies with FCC regulations for
Protection:	Short circuit, current limited	850–2250MHz:	± 1.5dB		Class A devices. Complies with EU
_O Control:		50–2250MHz:	± 2dB		EMC directive 89/336/EEC
LO Control.	22kHz on/off (selectable)	50-2600MH2.	± 20B		ENIC directive 89/336/EEC
RF Monitor Output:		General Purpose Outputs:			
Number of Outputs:	2	Number of Outputs:	2		
Connector:	BNC per IEC 61169–8 Annex A	Type:	"Dry Contact" relay contacts —		
	(F–Type optional)	.)[	normally open and normally closed		
Output Impedance:	75Ω		contact provided		
Return Loss:	>15dB	Connector:	3-pin terminal strip		
Frequency Range:	50–2800MHz	Connector.	o printorminarourp		
requeriev Raride.	within –2.0dB of input signal				
Dutput Level:					

## Ordering Information

	Dual L–Band RF fiber transmitter, 1310nm DFB laser, SmartMON™, VistaLINK <sup>®</sup>	Rear Plate Suffix: +3RU	3RU rear plate for use with 7800FR multiframe
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 7807LR-2–W	+1RU +SA	1RU rear plate for use with 7701FR multiframe Standalone enclosure rear plate
7807LTxx/yy–2	Dual L–Band/Wideband RF fiber transmitter, CWDM, DFB laser, SmartMON™, VistaLINK <sup>®</sup>	Enclosures: 7800FR	3RU multiframe, holds up to 15x single–slot modules
7807LTDxxx/yyy-2	Dual RF fiber transmitter, wideband, with SmartMON™ and VistaLINK <sup>®</sup> , high power ± 10dBm DWDM DFB laser, 75Ω BNC	7701FR S7701FR	1RU multiframe, holds up to 3x single – or dual-slot modules Standalone enclosure

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

Note: 75Ω BNC connectors are standard. Consult factory for 500Ω 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.