

FIBT-1550 1550 nm Fiber Optic Transmitter

The **FIBT-1550 (Fiber Optic Transmitter)** is built with a directly modulated DFB laser, providing lownoise and high-linearity performance. The RF AGC and pre-distortion circuit insures the optimum laser drive level for the best overall CNR, CSO, and CTB operation.

Laser output power, unit temperature, and RF input level are accurately monitored by a built-in microprocessor and shown on the front panel LCD display, in addition to unit function messages. Remote status monitoring is provided through SNMP network management.



Features

- 47 to 1218 MHz RF bandwidth for DOCSIS 3.1 compatibility with GaAs technology
- 1550nm, +10 dBm DFB laser
- RF AGC for optimum laser performance
- LCD front panel status display with built-in microprocessor.
- SNMP network management for remote monitoring
- ETL certified

PRELIMINARY Pre-Production Specifications

Subject to Change

Ordering Information

Model	Stock #	Description
FIBT-1550	7605	Fiber Transmitter, 10 dBm / 1550 nm; DFB Laser; SNMP



BLONDER TONGUE

1550 nm Fiber Optic Transmitter

Optical

RF

Operating Wavelength:	1550 nm ± 10 nm
Optical Power Output:	10 dBm
Laser Type:	Cooled DFB (directly modulated)
Connector:	SC/APC (For applications requiring a FC/APC connector an adapter (ordered separately) is required (Model: FC Adapter; Description: SC/APC-Male to FC/APC- Female: Stock # 7007)
	Female; Stock # 7607).

Connector:	F Female
Frequency Range:	47-1218 MHz
Input Level:	15-25 dBmV
Flatness:	±1.0 dB
Impedance:	75 Ω
Return Loss:	≥16 dB
AGC Range:	0 - 15 dB
MGC Range:	0 - 15 dB

General

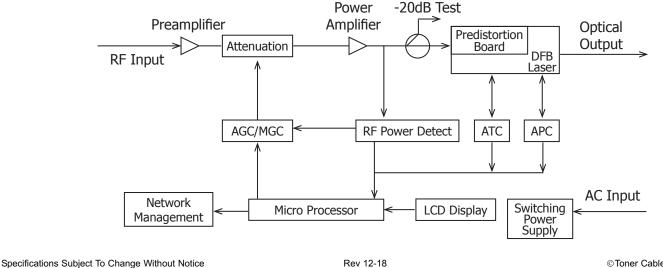
Dimensions (W x H x D):	19" x 1.75" x 12.75" (483 mm x 44 mm x 325 mm)
Weight:	7.0 lbs (3.18 kg)
Power	
Power Supply:	100-240 VAC 50/60 Hz
Power Consumption:	15 W
Operating Temperature Range:	0 to 45 °C
Relative Humidity:	95% max non-condensing
Indicators/Controls	
Status:	LED Red/Green
Front Panel Display:	LCD
Navigation:	Buttons: Up, Down, Enter for LCD
SNMP:	RJ45 Connector @ 10 Mbps

Link Performance*

CNR:	≥ 51 dBc
CSO:	<-59 dBc
СТВ:	<-65 dBc

* 77 analog channels (50~550 MHz) and digital channels (550 MHz~1218 MHz, RF level 10 dB lower) at -1 dBm optical input into a Blonder Tongue FTTB receiver.

Block Diagram



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