

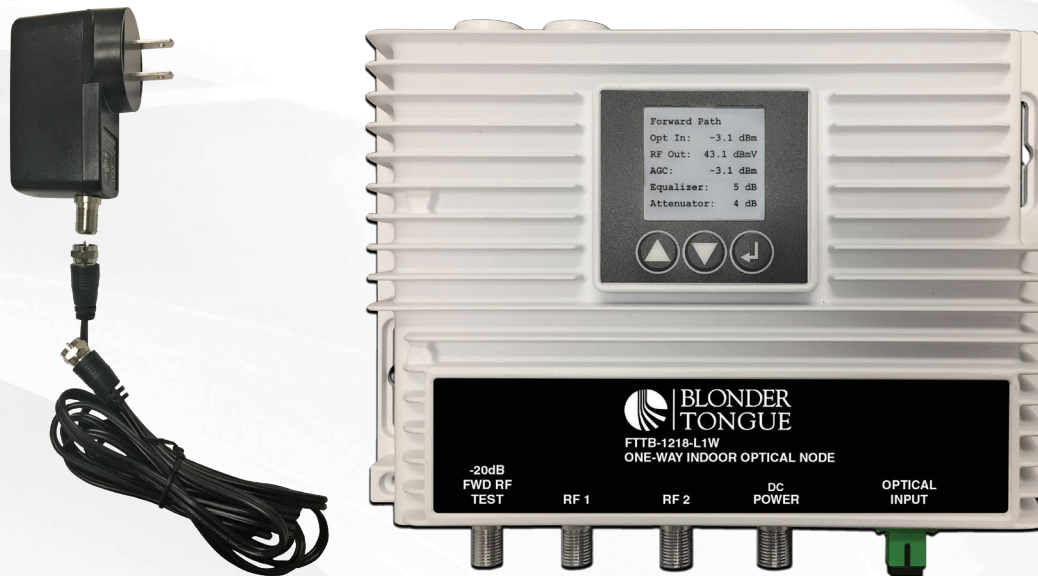


FTTB-1218-L1W Series

One-Way Indoor Optical Node with Dual 44 dBmV Outputs

The FTTB-1218-L1W (One-Way Indoor Optical Node) converts the optical signal received from the headend into dual +44 dBmV RF outputs with automatic gain control (AGC) over an optical input range of -4 dBm to + 3 dBm.

The compact housing includes an optical receiver with an LCD display, control keys, RF AGC, adjustable attenuator, adjustable slope, and RF amplifier providing high RF output and excellent performance up to 1218 MHz bandwidth.



Features

- Optical and RF Parameters Configured via User-Friendly LCD Menu with Three Key Navigation
- 1218 MHz Forward RF Bandwidth
- High Performance and Low Power Consumption GaAs Technology
- Dual +44 dBmV RF Outputs with Automatic Gain Control (AGC)
- Variable Attenuator and Slope Controls
- Die-Cast Aluminum Housing for Indoor Installation
- -20 dB RF Test Port
- One 18 VDC “F” Connector Input Port for Local/Remote Powering

Ordering Information

Model	Stock #	Description
FTTB-1218-L1W	7621	One-Way Indoor Optical Node; 54-1218 MHz; Dual 44 dBmV Output w/ AGC

Accessories

Model	Stock #	Description
FC/APC Adapter	7607	SC/APC Male to FC/APC Female Connector Adapter

Specifications

Optical and RF Performance

Optical	Input Optical Wavelength: 1210~1650 nm Optical Input Connector: SC/APC, Single Mode Optical Return Loss: 50 dB Optical Input Power: -6 dBm ~ +3 dBm AGC Effective Optical Input Range: -4 dBm ~ +3 dBm
RF	RF Bandwidth: 54 ~ 1218 MHz RF Output Level: Dual 44 dBmV; 0 dB attenuation & slope AGC RF Output Stability Range: RF Flatness: ± 0.75 dB RF Return Loss: >16 dB RF Output Impedance: 75 Ω RF Test Port: -20 dB CNR: ≥ 51 dB at -1.0 dBm CSO: <-62 dBc at 77 CW carriers CTB: <-65 dBc at 77 CW carriers

Test Conditions

FORWARD PATH: 77 CW carriers (54~550 MHz) and digital channels (550~1218 MHz, RF level 10 dB lower) at -1 dBm optical input (10 km fiber + optical attenuator).

RETURN PATH: return path specs are measured in transmitter and receiver composed link.

General

Connectors	Fiber Port: 1x SC/APC Female RF Ports: 2x F-Female -20 dB RF Test Port: 1x F-Female 18 VDC Port: 1x F-Female for DC power input
Chassis Dimensions: (L x W x H)	6.85" x 4.9" x 1.54" (174 mm x 124 mm x 39 mm)
Weight:	1.18 lbs (0.54 kg)
Power	Power Supply: 18V 1.3A DC Adaptor, UL Certified Power Consumption: ≤ 9 W
Working Temperature: Storage Temperature: Humidity:	-4 to 140 °F (-20 to +60 °C) -40 to 185 °F (-40 to +85 °C) 5% ~ 95% Non-condensing

LCD Control and Monitoring

User-Adjustable Controls	Equalizer: 0-15 dB (1 dB step) Attenuator: 0-15 dB (1 dB step)
Monitoring [1]	Optical Input Level: < -4.0 dBm or > +3.0 dBm RF Output Level: < 10.0 dBmV or > 50.0 dBmV AGC Attenuator: 0-15 dB (Status Only)
System Status	Power: < +16.5V or > +19.5V (18V ±1.5V) Temperature: < -40.0° C or > +80.0° C
System Information:	Model Serial Number Firmware Version

[1] Monitoring alerts will display when the following specifications are out of range.

