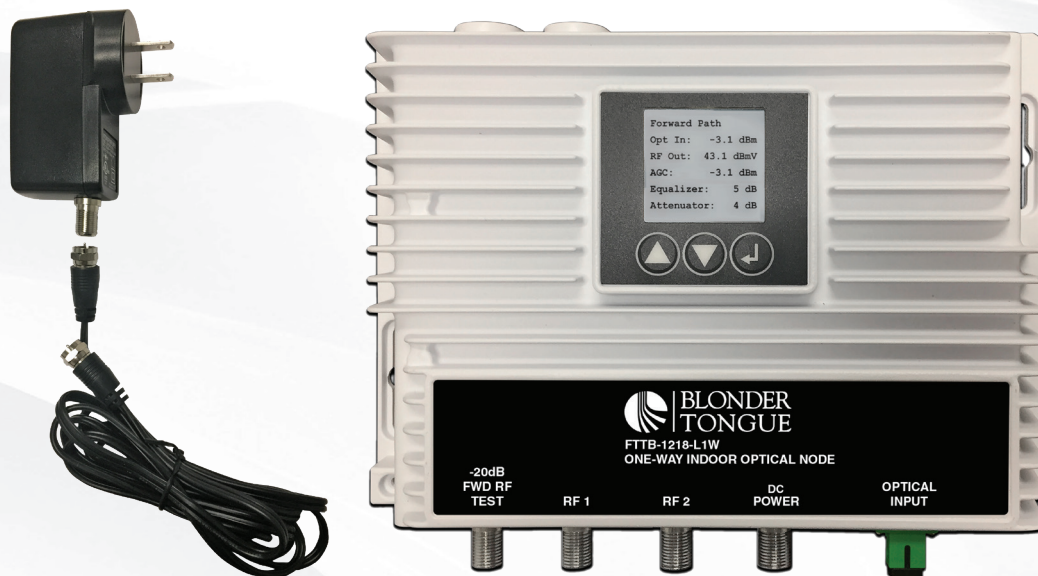


The FTTB-1218-L1W (One-Way Indoor Optical Node) converts the optical signal received from the headend into dual +44 dBmV RF outputs with automatic gain control (AGC) over an optical input range of -4 dBm to +3 dBm.

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	± 1.5 dB
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.

## 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.

## 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:	-4 to 140 °F (-20 to +60 °C)
Storage Temperature:	-40 to 185 °F (-40 to +85 °C)
Humidity:	5%~95% Non-condensing