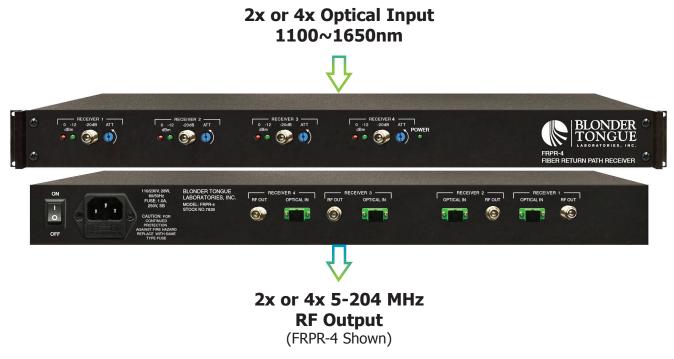




Fiber Return Path Receivers

The **FRPR Series (Fiber Optic Return Path Receivers)** is a rack-mounted fiber optic return path receiver. The 1RU chassis contains two (2) or four (4) independent optical return path receivers all supporting a bandwidth from 5-204 MHz.

The **FRPR** is a high-density, full-featured receiver that utilizes high-performance photodiodes and hybrid amplifiers for cable modem up-stream signals. Optical input indicators and front panel -20 dB RF test ports are provided on each receiver for set-up and testing. A front panel RF attenuator on each receiver section allows the user to adjust the RF output level.



Features

- Full-featured Return Path Receiver with bandwidth of 5-204 MHz
- Compatible with 1310nm, 1550nm and all CWDM and DWDM wavelengths
- Band pass filter suppresses noise
- -20 dB RF Test Points for real-time monitoring
- Universal AC power
- 20 dB continuously variable RF attenuator

Ordering Information

Model	Stock #	Description
FRPR-2	7639-2	Fiber Return Path Receiver, 2 Receivers; 5-204 MHz
FRPR-4	7639-4	Fiber Return Path Receiver, 4 Receivers; 5-204 MHz



Specifications

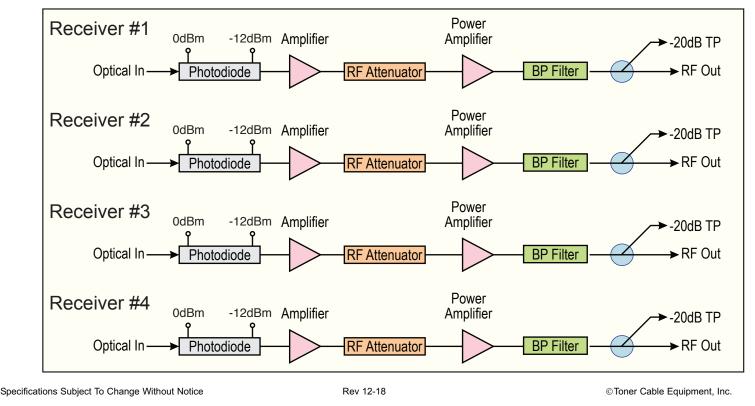
Input

Optical Characteristics (with SM 9/125µm SM Fiber)	
Operating Wavelength:	1100 to 1650 nm
Recommended Opt. Input Power:	-12 to 0 dBm
Optical Input Power:	-15 to +2 dBm
Optical Return Loss:	> 45 dB
Optical Connector (Std.)	SC/APC

General

Dimensions (W x H x D):	19" x 1.75" x 12.8" (483mm x 44mm x 324mm)
Weight:	5.35 lbs. (2.42 kg)
Power Supply Voltage:	100 to 240 VAC
Frequency:	50 to 60 Hz
Power Consumption:	28 W
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-40 to 149 °F (-40 to 65 °C)
Humidity:	5 to 95% RH, non-condensing

Block Diagram (FRPR-4 Shown)



Output

Frequency Range:	
RF Output Level:	>30 dBmV at -8 dBm Optical & 0 dB Attenuation
Pass Band Flatness:	±0.75 dB
RF Adjustment Range:	-20 to 0 dB
RF Test Point:	-20 dB
Noise Power Ratio:	>15 (DFB)
Return Loss:	16 dB
Impedance ("F" Connector):	75 Ω
	1

Fiber Return Path Receivers

BLONDER TONGUE

FRPR Series

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053 Fax: 215-675-7543 • info@tonercable.com