



FRPR Series

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.

2x or 4x Optical Input
1100~1650nm



2x or 4x 5-204 MHz
RF Output
(FRPR-4 Shown)

Features

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

Ordering Information

Model	Stock #	Description
FRPR-2	7639 2	Fiber Optic Return Path Receiver; 2 Receivers; 2x Optical In to 2x RF Out
FRPR-4	7639 4	Fiber Optic Return Path Receiver; 4 Receivers; 4x Optical In to 4x RF Out

Specifications



Input

Optical Characteristics (with SM 9/125µm SM Fiber)	
Operating Wavelength:	1100 to 1650 nm
Recommended Opt. Input Power:	-10 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 10.5" (483mm x 44mm x 267mm)
Weight:	5.35 lbs. (2.42 kg)
Power Supply Voltage:	100 to 240 VAC
Frequency:	50 to 60 Hz
Power Consumption:	24 W (Stk#. 7639 4); 13 W (Stk#. 7639 2)
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

Output

Frequency Range:	5 to 204 MHz
RF Output Level:	>30 dBmV at -8 dBm Optical and 0 dB Attenuation
Pass Band Flatness:	±0.75 dB
RF Adjustment Range:	-20 to 0 dB
RF Test Port:	-20 dB
Noise Power Ratio:	>15 (DFB)
Return Loss:	16 dB
Impedance ("F" Connector):	75 Ω

Block Diagram (FRPR-4 Shown)

