

Quad Return Receiver Module

LB-1000-RR SERIES



The LB-1000-RR series is a family of CATV return path receiver modules, converting upstream optical signals into RF signals at the headend or remote hubs. The LB-1000-RR return receiver incorporates a low noise PIN detector and RF amplifier chain. Internal selectable RF attenuators can be switched in or out to enable each receiver to handle a very wide range of optical input signals. Module parameters can be monitored and configured through the LB-1000-CM system management control module using the touch screen or by using a PC (web GUI or SNMP agent).



LB-1000 3RU Chassis (front angled view)

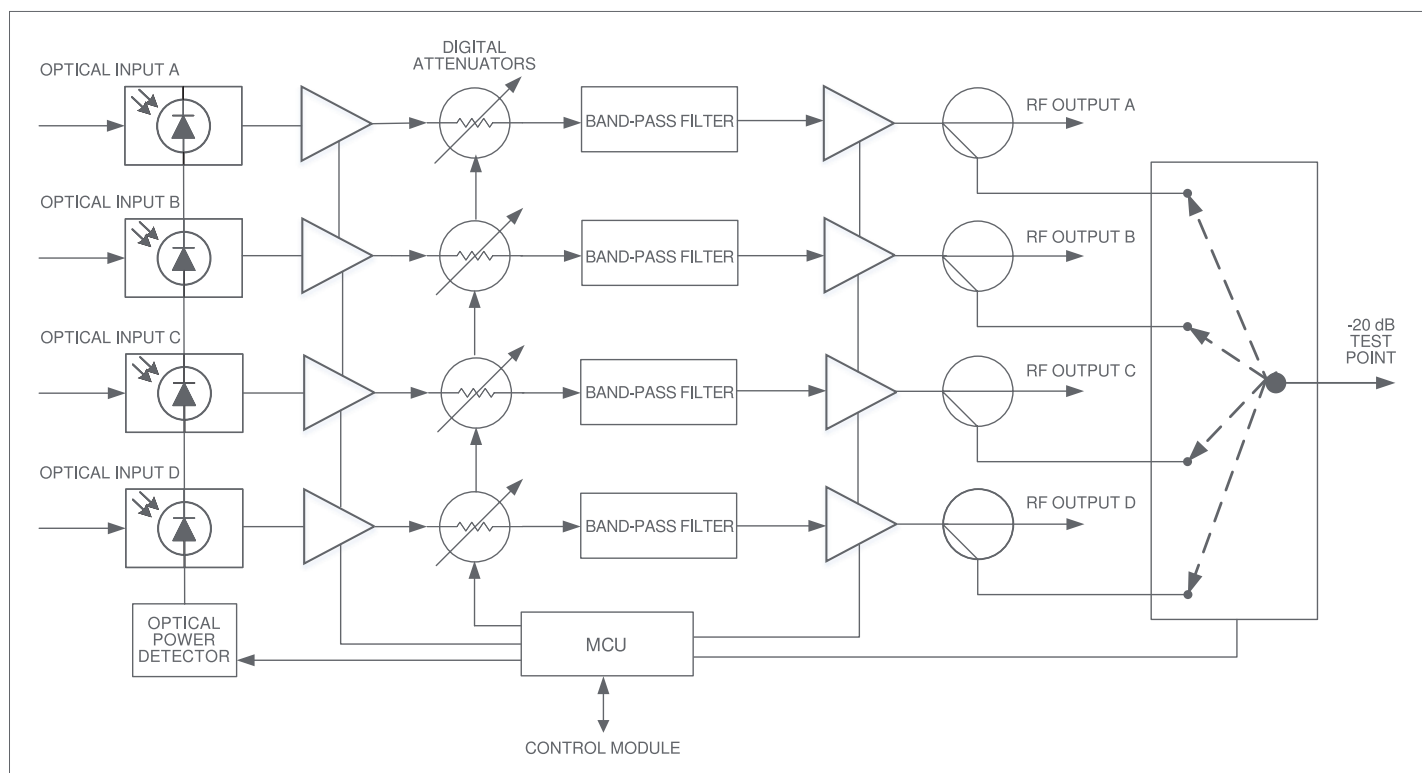
FEATURES

- Four independent return path receivers in a single module
- 5-205 MHz bandwidth
- Standard RRX: -18 dBm to +1 dBm
- RFoG RRX: -27 dBm to -13 dBm
- RF -20 dB output test point
- High output level with low noise
- Attenuation control for each channel
- Local or remote monitoring using the LB-1000-CM system management control module touch screen, web GUI or SNMP



LB-1000-RR Module (front and rear views)

FUNCTIONAL SCHEMATIC





SPECIFICATIONS

Parameter	Specification
Optical Parameters	
Wavelength	1290-1620 nm
Optical Input Power	-18 to +1 dBm ⁽¹⁾
	-27 to -13 dBm ⁽²⁾
Optical AGC	-18 to +1 dBm ⁽³⁾
Optical Return Loss	> 45 dB
Number of Receivers	4
Optical Connector	SC/APC
RF Parameters	
RF Input Bandwidth	5 -205 MHz
Flatness	± 0.75 dB
RF Return Loss	≥ 16 dB
RF Output Level	≥ 30 dBmV ⁽⁴⁾
RF Output Control	Yes ⁽⁵⁾
RF Test Point	-20 ± 1 dB ⁽⁶⁾
Impedance	75 Ω
Connector	F-female
NPR	≥ 40 dB
Power & Physical	
Power Consumption	≤ 15 W ⁽⁷⁾
Dimensions (H x W x D)	17.4"H x 0.86"W x 4.7"D (44.2H x 2.2W x 11.9D cm)
Weight	1.7 lb (0.8 kg)

NOTES:

- (1) Standard version
- (2) RFoG version
- (3) Standard version (only); no AGC in RFoG version
- (4) -18 dBm Rx in; 35% OMI
- (5) Using electronic attenuation
- (6) Relative to the RF port
- (7) Powering from the LB-1000-CH chassis

ORDERING INFORMATION

Part #	Description
LB-1000-RR-ST-SA	Quad return receiver module with input optical power -18 to +1 dBm
LB-1000-RR-RG-SA	Quad return receiver module with input optical power -27 to -13 dBm

<https://www.go2mhz.com/product/optical-return-path-receiver/>

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MHz Provided by: Mega Hertz | 800-883-8839
MEGA HERTZ info@go2mhz.com | www.go2mhz.com