



# Multicom OTC HFC Return Path Receiver Module

## Description

The Multicom OTC HFC Return Path Receiver (RPR) Module is a low cost high performance receiver for HFC networks. It offers wide spectral bandwidth, broadband RF performance, and adjustable RF levels allowing it to be adapted to most HFC networks in service today. The Multicom OTC HFC Return Path Receiver Module houses 2 independently managed optical receivers in a single slot wide case allowing a single Multicom OTC chassis to support 28 HFC return paths in a small 4RU head-end equipment space.

This hot-swappable module features front panel diagnostics and supports SNMP for remote configuration and monitoring, making it the right choice for deployment wherever high reliability and high availability return path data is a requirement.



## Features

- Wide spectral bandwidth to support 1310nm, 1550nm, & 1610nm return paths
- High density chassis design with 2 HFC RPRs per module for up to 28 RPRs in a 4RU shelf
- Wide RF bandwidth to allow future DOCSIS channel bonding up to 200MHz
- Remote management using SNMP allows easy integration to standard management systems
- Low power consumption of 16 Watts maximum per module for low cost ongoing operations
- Status indicators, RF monitor and hot-swappable design for easy diagnostics & maintenance
- Multicom's OTC Transport system allows flexible deployments and consistent operations

## Applications

- Standard 2-way HFC network deployments
- DOCSIS 3 high performance networks
- Video on demand, DAVIC, and VoIP applications

The Multicom OTC HFC Return Path Receiver Module is a member of the Multicom OTC (Optical Transport Chassis) product family that includes the 14 slot OTC chassis, RFOG and HFC Return Path Receivers modules, 1310nm and 1550nm Transmitters modules, and the EDFA module.

**OTC HFC Return Path Receiver Module PN: MUL-OTC-RPR-HFC-5-200**  
slots into the **Multicom Optical Transport Chassis PN: MUL-OTC-14-AC/DC**

[www.multicominc.com](http://www.multicominc.com)

Multicom, Inc.  
Ph: 800-423-2594  
Fax: 407-339-0204

Email: [multicom@multicominc.com](mailto:multicom@multicominc.com)



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## Product Specifications

General	
Dimensions (WxHxD)	1.2"x5.12"x14.6" (one-wide chassis slot)
Weight	2.5 Lbs (1.13 Kg)
Receivers per module	2 independent Return Path Receivers per module
Optical connectors	SC/APC on front pane
RF connectors	75 Ohm, female F connectors
Replacement	Plug-in, hot swappable
Optical performance	
Input wavelength	1100nm to 1620nm
Input sensitivity	-10dBm to 0dBm
Optical return loss	>40dB
RF Performance	
RF bandwidth	5MHz to 200MHz
RF output level	40dBmV (pad disabled, -5dBm input)
Flatness	±1dB (no tilt)
RF return loss	>16dB (into 75 Ohm load)
RF monitor	-20dB referenced to output
RF Pad attenuation	18dB Max, in 1dB steps
Electrical requirements	
Power consumption	16 watts maximum
Environmental	
Operating temperature range	0 to 50°C (32° to 122°F)
Storage temperature range	-30 to +70°C (-22 to 157°F)
Humidity	5% to 85% (non-condensing)
Management	
The Multicom OTC Return Path Receiver Module is managed via the Optical Transport Chassis (OTC) controller. Front panel controls on the RPR module provide local monitoring & diagnostics.	
Local management	Backlit LCD display with menus and navigation control buttons
Remote management	RJ45/LAN with SNMP

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