



Multicom OTC 1310nm Transmitter Module

Description

The Multicom OTC 1310nm Transmitter Module is a flexible, high quality forward path transmitter for use in HFC networks. This low noise directly modulated transmitter supports a full 78 NTSC channel loading, has advanced distortion pre-compensation, automatic power control, and a cooled DFB laser with isolation making one of the most stable, trouble free and versatile transmitters in its price range. The Multicom OTC 1310nm Transmitter Module houses one complete optical transmitter in a 1 slot wide package, allowing a single 4RU Multicom OTC chassis to support as many as 14 HFC nodes, with standard power transmitters. By using optional high output transmitters, (up to 14dBm), the optical outputs may be split allowing higher density applications in a single OTC chassis.



As with all other MUL-OTC modules, the Multicom OTC 1310nm Transmitter Module may be configured and monitored locally via the OTC chassis controls, or remotely using SNMP, allowing it to be easily integrated to your network operations systems.

Features

- Fully automatic gain and power controls provide exceptional stability and linearity
- Wide frequency range from 47 to 1000 MHz for current and future network applications
- Distortion pre-compensation allows high fidelity links over long distances for high video quality
- Remote management using SNMP allows easy integration to standard operations systems
- Optional output power selections support a wide variety of HFC network configurations
- Advanced protection circuitry with alarms provides Automatic Laser Shutdown
- Status indicators, RF monitor and Hot-swappable design for easy diagnostics & maintenance
- Keyed laser shut-down switch allows safe maintenance of the optical network and components
- Multicom OTC Transport system allows flexible deployments and consistent operations
- Available in +6, +8, +10, +12, +14dBm output levels

Applications

- Traditional HFC deployments
- Point to point video transport
- Video distribution

The Multicom OTC 1310nm Transmitter 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 1310nm Transmitter Module PN: MUL-OTC-1310TX-6/8/10/12/14
slots into the Multicom Optical Transport Chassis PN: MUL-OTC-14-AC/DC

www.multicominc.com

Multicom, Inc.

Ph: 800-423-2594

Fax: 407-339-0204

Email: multicom@multicominc.com



Multicom OTC 1310nm Transmitter Module

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	1 independent transmitter per module
Optical connectors	SC/APC on front panel
RF connectors	75 Ohm, female F connector
Replacement	Plug-in, hot swappable
Modulation	Directly modulated
Optical performance	
Wavelength	1290nm to 1330nm (1310nm typical at 25°C/77°F)
Output power	6, 8, 10, 12, 14dBm (optional)
CNR	>51dB
CSO	<-60dBc
CTB	<-65dBc
RF Performance	
RF bandwidth	47 to 1000MHz
RF input level	24dBmV +3/-2
Channel loading	78 NTSC channels plus 44 QAM channels
RF return loss	>16dB (into 75 Ohm load)
RF monitor	-20dB referenced to RF input level
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 1310nm Transmitter Module is managed via the Optical Transport Chassis (OTC) controller. Front panel controls on the transmitter module provide local monitoring & diagnostics.	
Local management	Backlit LCD display with menus and navigation control buttons
Remote management	RJ45/LAN with SNMP
Transmitter controls	Transmitter enable/disable AGC mode MGC OMI, alarm suppression

The Multicom OTC 1310nm Transmitter 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 1310nm Transmitter Module PN: MUL-OTC-1310TX-6/8/10/12/14
slots into the Multicom Optical Transport Chassis PN: MUL-OTC-14-AC/DC

www.multicominc.com

Multicom, Inc.

Ph: 800-423-2594

Fax: 407-339-0204

Email: multicom@multicominc.com