



Multicom OTC 1550nm Transmitter Module

Description

The Multicom OTC 1550nm Transmitter Module is a flexible, high quality forward path transmitter to support QAM or analog channel insertion onto HFC or FTTH networks. This low cost directly modulated transmitter supports both access and long distance video transport applications, with links up to 40Km (25 miles). Automatic temperature and power control circuits along with a high quality cooled DFB laser insures that the Multicom OTC 1550nm Transmitter Module will be stable and dependable over the lifetime of the network.

As with all other MUL-OTC modules, the Multicom 1550nm 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 inserts content into the entire CATV band
- 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
- Automatic SBS suppression for superior quality video transmission
- 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, +10dBm output levels

Applications

- Insert local content and services to broadcast stream
- Analog and digital channel support for transmission links up to 20Km/12.5 miles
- Long distance digital transmission links (>40Km/25 miles)

The Multicom OTC 1550nm 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 1550nm Transmitter Module PN: MUL-OTC-1550TX-6/8/10
slots into the Multicom Optical Transport Chassis PN: MUL-OTC-14-AC/DC

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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)
Transmitters per module	1 independent transmitter
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	1529nm to 1561nm
Output power	6, 8, 10dBm (optional)
CNR	>50dB
CSO	<-50dBc
CTB	<-50dBc
RF Performance	
RF bandwidth	47 to 1000MHz
RF input level	37dBmV
RF return loss	>16dB (into 75 Ohm load)
RF monitor	-20dB referenced to RF input level
Electrical requirements	
Power consumption	14 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 1550 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

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