



Multicom OTC EDFA Module

Description

The Multicom pluggable OTC EDFA module for the OTC chassis is a high performance optical amplifier for 1550nm optical transmission networks. It is available in four models to provide optical output power from 19 to 22dB and features optical power control for extremely stable operation across a wide input power.

The Multicom OTC EDFA module houses one complete independently managed optical amplifier in a single slot wide case allowing a single Multicom OTC chassis to support up to 14 distribution networks in a small 4RU head-end equipment space. This hot swappable module features front panel key switch, diagnostics and supports SNMP for remote monitoring.



Features

- Low Noise, high performance for the highest video quality
- Automatic power control guarantees a constant optical output even if input varies
- Very stable, high quality design to insure years of trouble free service
- Remote management using SNMP allows easy integration to standard operations systems
- Optional output power selections support a wide variety network configurations
- Front panel status indicators and hot-swappable design for easy diagnostics & maintenance
- Keyed laser shut-down switch allows safe maintenance of the optical network and components
- Multicom's OTC Transport system allows flexible deployments and consistent operations

Applications

- RF feeder networks
- Inter-Office video transport networks
- HFC optical distribution networks

The Multicom OTC EDFA 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 EDFA Module PN: MUL-OTC-EDFA-19/20/21/22
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"x14.1" (one-wide chassis slot)
Weight	2.5 Lbs (1.13 Kg)
Transmitters per module	1 independent EDFA
Optical connectors	SC/APC on front panel
Replacement	Plug-in, hot swappable
Safety Switch	Keyed switch on front panel
Optical performance	
Wavelength	1540nm to 1564nm
Input power	-10dB to +10dB (3dB typical)
Total output power	+13dBm to +22 dBm
Noise figure	4.5dB typical at +3dB input
Output power stability	±0.2dB (constant power control)
Pump leakage	<-30dBm
Return loss	>55dB
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 EDFA 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
EDFA controls	enable/disable, input and output power monitoring

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