



Multicom Optical Transport Chassis and OTC Modules

Description

The Multicom Optical Transport Chassis (OTC) and OTC Modules combine to make a unified optical transport system for communication systems providers. The OTC shelf is a 4RU, 19" rack mountable system with 14 universal service slots. It includes a card cage, a shelf controller, and AC or DC redundant power supplies and cooling. The OTC supports long-haul, HFC, RFoG, and PON-RF Overlay applications. Service modules for the OTC system are hot-swappable, single wide devices and any module can be placed in any slot in any combination. They are automatically configured for operation in seconds, making the Multicom OTC one of the most versatile communications delivery systems in the industry.



OTC 1310nm and 1550nm Transmitter Modules



The **1310nm Transmitter Module** supports HFC and video transport applications. It can be ordered with output power from +6dBm to +14dBm for use in long-haul or HFC applications. This low noise directly modulated transmitter supports a full 78 NTSC channel loading, has advanced distortion pre-compensation, and automatic power control, (APC). 14 Transmitter Modules can be installed in one OTC shelf.

The **1550nm Transmitter Module** is designed to support the HFC, RFoG, PON overlay and long-haul applications. It can be ordered with +6dBm, +8dBm or +10dBm output power for use in either long distance transmission, or to serve multiple EDFAs in overlay/RFoG applications. This low noise directly modulated transmitter operates from 47 to 1GHz, has automatic SBS suppression, automatic power control (APC), and supports optical links up to 40 KM. 14 Transmitter Modules can be installed in one OTC shelf.



OTC EDFA Module

The **EDFA Module** is a high performance low cost optical amplifier for 1550nm optical networks. It is available with total optical power from 13dBm to 23dBm with one or two optical outputs. It utilizes optical power control (OPC) for extremely stable operation across a wide input power. 28 optical distribution links can be served from a single OTC shelf

OTC HFC and RFoG Return Path Receiver Modules



The **HFC RPR Module** is a robust low cost return path receiver designed for HFC/DOCSIS3 networks. Each module contains two return path receivers each supporting a wide spectral input (1,100nm to 1620nm), a -10 to 0dBm input power level, and a frequency response of 5 to 85MHz (5-200MHz optional). Each receiver is independently controlled including a 15dB software controlled PAD on the RF output. Up to 28 HFC return paths can be served from a single OTC shelf.

The **RFoG RPR Module** is designed specifically for RFoG applications. It receives the burst mode return path signals from standard 1310nm or 1610nm based RFoG ONUs. Its industry leading high sensitivity design allows a minimum received optical power of -27dBm with dynamic range of 11 dB, simplifying deployment and allowing 64 split RFoG networks. Each module contains two independent receivers each with a software controlled 30dB PAD on the RF output. Up to 28 RFoG return paths can be served from a single OTC shelf.

Optical Transport Chassis (OTC) PN: MUL-OTC-14-AC/DC

The OTC supports the following OTC Modules:

OTC 1310nm Transmitter Module PN: MUL-OTC-1310TX-6/8/10/12/14

OTC 1550nm Transmitter Module PN: MUL-OTC-1550TX-6/8/10

OTC EDFA Module PN: MUL-OTC-EDFA-19/20/21/22

OTC RFoG Return Path Receiver Module PN: MUL-OTC-RPR-RFOG-5-85/5-200

OTC HFC Return Path Receiver Module PN: MUL-OTC-RPR-HFC-5-200

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