

Luxglo OTC RF Transport Chassis

The Luxglo Optical Transport Chassis, or OTC, is a 4RU, 19" rack mountable equipment shelf with 14 service slots, redundant hot swappable power supplies, and a system management controller and display. The Luxglo OTC chassis currently supports a variety of return path receivers, forwards path transmitters, and optical amplifiers. It utilizes a universal slot design for the ultimate in flexibility, allowing any mix of service modules to be installed in any combination of slots. Power supplies, fans and management modules are hot swappable and are integrated into the chassis design leaving all 14 slots open for service modules. All



service modules are plug in/hot swappable with RF inputs and outputs fixed to the chassis rear panel, simplifying module replacement and speeding repair. The OTC management controller includes front mounted LCD display / control keys for local operations, and supports SNMP remote management/monitoring. When a module is installed, its type and inventory parameters are automatically registered with the controller to simplify service activation, and allowing new module types to be installed onto existing systems without software upgrades or service interruptions.

Features and Benefits

- Intelligent controller maintains a system inventory automatically and constantly monitors status. Universal slot design allows any service module to be installed in any slot.
- High port density to support up to 28 optical networks in a single 4 RU chassis.
- Supports a full range of RF modules (Forward transmitters, Return receivers, EDFAs).
- Front panel controls for status at a glance. No terminal needed!
- Remote management using SNMP allows easy integration to standard management systems.
- AC or DC powering to optimize the power options for each installation.
- Redundant power supplies for high reliability and to minimize downtime.
- Standard 19" or 23" rack mounted for simple installation.

Applications

- GPON/EPON RF feeder networks
- RFoG access networks
- HFC nodes and networks
- Inter-Office video transport networks

Generic Specifications

General

Dimensions W x H x D	19" x 7" x 21.6" (4 RU rack mount)
Weight	24 lbs (redundant power, no modules)
RF connectors	Female "F" conn (2 per slot, rear panel)
Cooling	Fan cooled (hot-swappable)

Service Modules Supported

TCDT13	1310nm Direct Mod Forward transmitter
TCDT15	1550nm Direct Mod Forward transmitter
TCSEDF	Optical Amplifier
TCRRFG	Dual analog RFoG Return receiver
TCRHFC	Dual analog HFC Return receiver

Electrical Requirements

AC power	90 - 265VAC, 50/60 Hz (Universal AC)
DC power (optional)	-36 to -60VDC (fuse for 8 amps/ supply)
Power consumption	250 Watts Max (16 Watts/slot)

Environmental

Operating temp	0 to 50 °C
Storage temp range	-30 to +70 °C
Humidity	5% to 85% (non-condensing)

Management

Local display	Backlit LCD with menus
Local control	Menu keys
Remote monitoring	RJ45/LAN with SNMP on rear panel

Ordering Information

(Optical transport chassis with power & controller, 4RU, 14 slot)

The Luxglo OTC RF transport chassis can be ordered and customized to your specific needs as follows:

TOTC14-ps-r

ps = Power supply

type (AC, DC)

r = Redundant power supplies (None, R)

Mechanical Drawings

