



The Optiva OTP-1ETR provides fiber transport connectivity for SNMP network management traffic on Optiva platforms between remote satellites and control rooms with one channel of duplex 10/100 Ethernet over fiber. It supports short or long distances with single or dual fiber cable.



With an OTP-1ETR installed at each location on the Optiva platform, operators can locally and remotely monitor and control the entire Optiva platform with the Optiva EMCOREView Management & Control Suite.

The Ethernet compliant OTP-1ETR can also support data-centric applications such as fiber Ethernet transport for the LAN/WAN data network and data feeds in satellite control rooms.

## Applications

- Network Management Connectivity for Antenna Remoting
- LAN/WAN Data Transport
- Short and Long Distance Ethernet
- Temporary Data Feeds

## Features

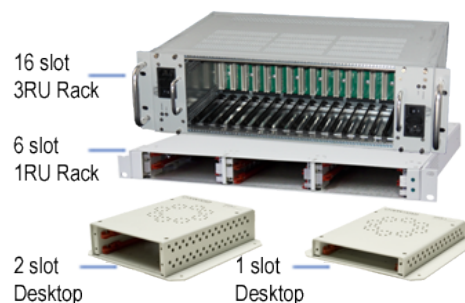
- Single 10/100 Ethernet Channel Over Fiber
- Supports 850/1310/1550 nm and CWDM Optics
- Autosensing
- Compatible with Optiva MDM-7001C Series for CWDM Multiplexing
- Hot-Swappable Insert Cards
- Compatible with All Optiva Rack-Mount and Portable Enclosures
- Supports Singlemode Fiber (up to 60 Km)
- Supports Multimode Fiber (up to 3 Km)
- Remote Monitoring via SNMP and Optiva EMCOREView
- 3 Year Warranty
- RoHS Compliant

## System Design

The Optiva platform includes a wide range fiber **optiva** PLATFORM optic transport products for satellite and microwave communications from 1 MHz to 40 GHz. These units can be used to construct transparent inter- and intra-facility links from 1 meter to >100 km for RF and microwave signal transport, antenna remoting, video transport, electronic warfare systems and other high-dynamic-range applications.

Optiva is a completely modular, hot-swappable platform. Both 19" rack-mount and compact tabletop, or wall-mountable enclosures are available. The 3 RU 19" rack-mount, fan-cooled enclosures (Model OT-CC-16 and OT-CC-16F) can support up to 16 insert cards and utilize two dual-redundant, hot-swappable, 100 or 200 watt power supplies. The 1 RU 19" rack-mount, fan-cooled enclosure (Model: OT-CC-6-1U) can accommodate 6 insert cards and utilizes two hot-swappable 60 watt power supplies. Compact one-slot (OT-DTCR-1), or two-slot (OT-DTCR-2) enclosures are also available that use an external wall-mount power supply.

## Enclosure Options



# Optiva OTP-1ETR 10/100 Ethernet Network Management Connectivity



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## Single Fiber Models

Transmitter	Receiver
OTP-1ETR-A1/A3M-XX	OTP-1ERT-A3M/A1-XX
OTP-1ETR-A2/A3-XX	OTP-1ERT-A3/A2-XX
OTP-1ETR-A2/A3D-XX	OTP-1ERT-A3D/A2-XX
OTP-1ETR-A2/A3H-XX	OTP-1ERT-A3H/A2-XX
OTP-1ETR-L4x1/L4x1-XX	OTP-1ERT-L4x1/L4x1-XX
OTP-1ETR-NOC-XX	OTP-1ERT-NOC-XX

- For ordering, please substitute "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.

## Dual Fiber Models

Transmitter	Receiver
OTP-1ETR-A0/A0-LC	OTP-1ERT-A0/A0-LC
OTP-1ETR-A1/A1-LC	OTP-1ERT-A1/A1-LC
OTP-1ETR-A2/A2-LC	OTP-1ERT-A2/A2-LC
OTP-1ETR-A2D/A2D-LC	OTP-1ERT-A2D/A2D-LC
OTP-1ETR-A3/A3-LC	OTP-1ERT-A3/A3-LC
OTP-1ETR-A3D/A3D-LC	OTP-1ERT-A3D/A3D-LC

## Optical Specifications

Code	Fiber Type	Wavelength	Optical Budget	Distance
A1/A3M	Multimode	1310/1550 nm	5 dB	1.5 Km
A2/A3	Singlemode	1310/1550 nm	12 dB	20 Km
A2/A3D	Singlemode	1310/1550 nm	17 dB	40 Km
A2/A3H	Singlemode	1310/1550 nm	25 dB	60 Km
A0/A0	Multimode	850/850 nm	5 dB	0.5 Km
A1/A1	Multimode	1310/1310 nm	10 dB	1.5 Km
A2/A2	Singlemode	1310/1310 nm	7 dB	10 Km
A2D/A2D	Singlemode	1310/1310 nm	14 dB	20 Km
A3/A3	Singlemode	1550/1550 nm	17 dB	40 Km
A3D/A3D	Singlemode	1550/1550 nm	25 dB	60 Km
L4x1/L4x1	Singlemode	CWDM	Varies	20-70 Km

- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation

## Ethernet

Specifications	Values
Standard	IEEE 802.3
Data Rate	10/100 Mbps
Connector	RJ45

## General

Specifications	Values
Dimensions (Insert Card)	6.3"D x 0.8"W x 4.0"H 160.0 mm x 20.3 mm x 101.6mm
Weight	11 oz / 311.8 g
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% non-condensing
Power Consumption	6 Watts
BER	10 <sup>-14</sup>
System Latency	< 10 ms

## Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	Optiva EMCOREView Management & Control Suite*

\*Requires SNMP Controller Card (OPV-CTLR-IC)

## Connection Diagram

