



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 1310/1550 nm and CWDM Optics
- Autosensing
- Compatible with All Optiva Rack-Mount and Portable Enclosures
- Supports Singlemode Fiber (up to 10 Km)
- Remote Monitoring via SNMP and Optiva OrtelView
- 3 Year Warranty
- RoHS Compliant

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 OrtelView 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.



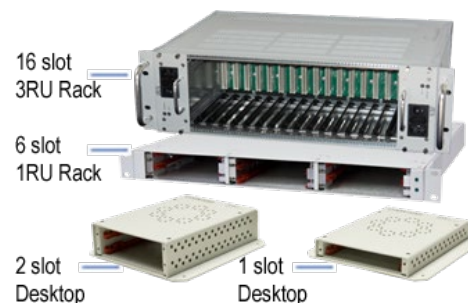
System Design

The Optiva platform includes a wide range of fiber 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, electronic warfare systems and other high-dynamic-range applications.

optiva | PLATFORM

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 enclosure Model OT-CC-16F can support up to 16 insert cards and utilize two dual-redundant, hot-swappable, 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

Optical Specifications

Optical Code Options	Fiber	Wavelength (nm)	Min. Output Power (dBm)	Rx Sensitivity (dBm)	Optical Budget (dB)	Distance (km)	Connector Options
A2/A2	2	1310	-5.5	-12.5	7	10	LC
A3/A3	2	1550	-3.5	-20.5	17	40	LC
A2/A3 ¹	1	1310/1550	-5.5	-17.5	12	20	SC
A3/A2 ¹	1	1550/1310	-5.5	-17.5	12	20	SC
L4YY/L4YY ²	2	1470 to 1610 (CWDM)	-2.8	-28	25	50 to 70	LC

Note 1: Use "XX/XX" as is for ordering transmitter models but reverse for ordering receive models.

Note 2: When ordering CWDM optics replace "YY" with the desired channel number

CWDM Optical Specifications

Optical Code Options "YY"	Wavelength (nm)
47	1471
49	1479
51	1511
53	1531
55	1551
57	1571
59	1591
61	1611

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 ⁻¹⁴
System Latency	< 10 ms

Monitoring & Control

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

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

Connection Diagram

