

## Features

- Duplex 10/100 Ethernet over Fiber
- Singlemode Options (up to 70 Km)
- Multimode Options (up to 2 Km)
- TDM - Dual Wavelength, Single Fiber (SC,ST,FC)
- No EMI, RFI, or Ground Loops
- Compatible with MDM-7000 Series for CWDM Multiplexing
- 3-Year Warranty

## Applications

- LAN/WAN Data Communication
- Short Distance Ethernet
- Campus Networking
- Temporary Data Feeds
- Video over IP Extension

## Ethernet Transmission

The OTP-1ETR provides for the digital transmission 1 channel of Duplex 10/100 Ethernet.

The OTP-1ETR is an excellent choice for transporting ethernet signals over long or short distances over a single optical fiber. The system offers the complete flexibility needed to transport ethernet signals over one fiber. Additionally, the OTP-1ETR is part of the innovative Optiva Series Video, Audio and Data Media Transport System. New signals may be added or fully redundant optical transport solutions may be developed.

## System Design

Optiva insert cards support both 19" rack mount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosure (Model: OT-CC-16-100) can support up to 16 insert cards. It also supports dual-redundant, hot-swappable power supplies (Model: OT-CC-16-100-RPS) utilizing two PS-100 power supplies or two PS-200 power supplies (Model: OT-CC-16-200-RPS). Also available in the rackmount form factor is the four-slot (Model: OT-CC-4-1U) which houses four insert cards in 1RU of rack space. The compact one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures both use an external power supply (Model: PS-9012).

optiva | PLATFORM

# OTP-1ETR

10/100 Ethernet

## DATASHEET FIBER OPTICS

### Models

Transmitter	Receiver
OTP-1ETR-A0-XX	OTP-1ERT-A0-XX
OTP-1ETR-L4x1-XX	OTP-1ERT-L4x1-XX
OTP-1ETR-NOC	OTP-1ERT-NOC

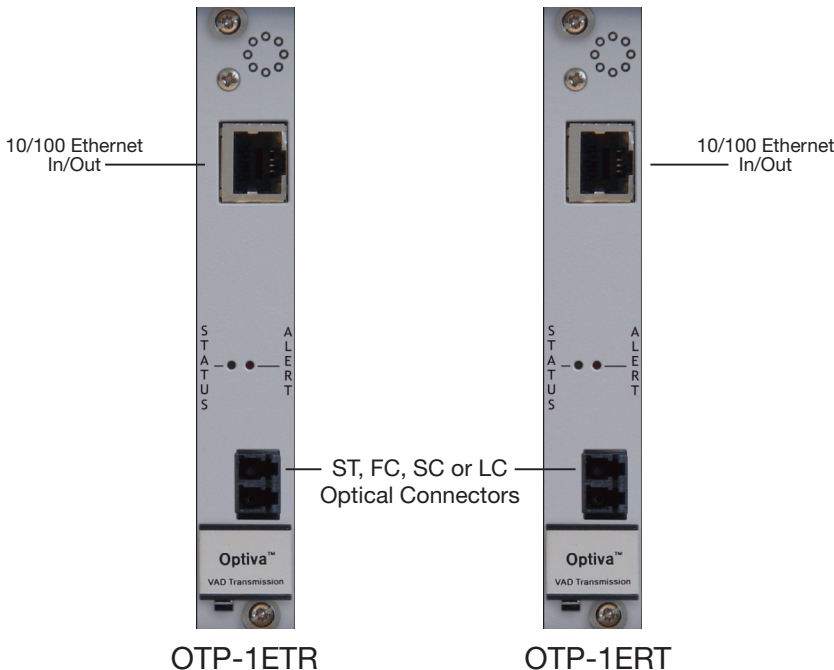
- When ordering, please substitute the "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.
- Standard SC connector type is UPC. APC is available upon request.

### Optical Specifications

Ordering Code	Wavelength & Fiber Type	Optical Budget (dB)	Range (km)	Output Power (dBm)	RX Overload	RX Sensitivity
A0/A0	850 Multimode (2F)	7	0.5	-10 to -3	-3	-17
A1/A1	1310 Multimode (2F)	5	3	-5.5 to -0.5	0	-17
A2/A2	1310 Singlemode (2F)	7	10	-5.5 to -0.5	0	-17
A2D/A2D	1310 Singlemode (2F)	12	20	-5.5 to -0.5	0	-18
A3/A3	1550 Singlemode (2F)	17	40	-3.5 to 1.5	0	-21
A3D/A3D	1550 Singlemode (2F)	25	60	-0.5 to 4.5	0	-26
A1/A3M	1310/1550 Multimode (1F)	5	3	-5.5 to 0.5	0	-17
A2/A3	1310/1550 Singlemode (1F)	12	20	-5.5 to 0.5	0	-18
A2/A3D	1310/1550 Singlemode (1F)	17	40	-3.5 to 1.5	0	-21
A2/A3H	1310/1550 Singlemode (1F)	25	60	-2.5 to 2.5	-8	-28

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

### Connection Diagram



### Ethernet

Specifications	Values
Standard	Ethernet IEEE 802.3
Data Rate	10/100 Mbps (auto negotiation)
Connector	RJ-45

### General

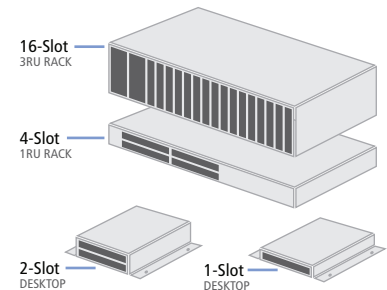
Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% (non-condensing)
Operating Voltage	12 VDC
Power Consumption	6 Watts
Bit Error Rate	10 <sup>-14</sup>
System Latency	< 1 ms
Warranty	3 Year

### Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	OptivaView SNMP Management Suite*

- Requires OptivaView SNMP Controller Card (Model: OPV-CTLR)

### Enclosure Options



### Compliance

