



## 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
- 3-Year Warranty

## Applications

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

## Ethernet Transmission

The Optiva OTP-1E provides for the transmission of 1 channel of duplex 10/100 Ethernet signals, over long or short distances, using a single fiber.

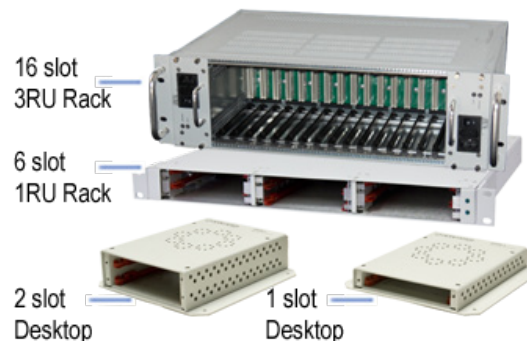
In addition, the OTP-1E is part of our innovative Optiva video, audio and data media transport system. Optiva was designed to maintain lossless fiber extension between input and output signals. New signals may be added without the need for additional fiber through our proprietary daisy-chain technology. The Optiva line of products also includes insert cards for up to 16 channels of multiplexing / demultiplexing, 16x16 matrix switching, optical add / drop, as well as remote system monitoring.

## System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosures (Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. Also available in the rackmount form factor is our 1RU enclosure (Model: OT-CC-6-1U) which can accommodate six insert cards and utilizes two 60 watt power supplies. For desktop or wall mounting applications there are one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures. Both use an external wall mount power supply.

optiva PLATFORM

## Enclosure Options



U.S. Patent #'s 7720385 & 8064773

**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

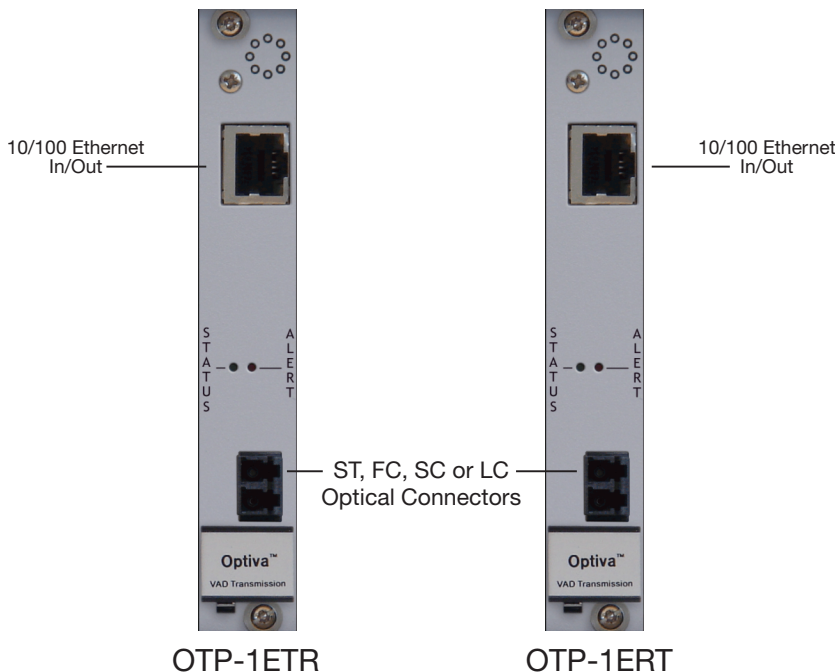
- When ordering, please substitute the "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.
- Standard SC connector type is UPC. APC is available upon request.

## 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)

## Compliance

