



Features

- 10/100/1000 Ethernet over Fiber
- Singlemode Options (up to 70 km)
- Multimode Options (up to 3 km)
- Supports Ethernet QoS (Optional)
- Supports IEEE 802.3, 802.3u, 802.1p & 802.3ab standards
- 3-Year Warranty
- RoHS Compliant

Applications

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

Ethernet Transmission

The Optiva OTP-1GE provides for the transmission of 1 channel of 10/100/1000 Ethernet signals, over long or short distances, using one or two fibers. It also features a 4-port unmanaged Ethernet switch so multiple devices can be plugged in simultaneously.

In addition, our innovative Optiva video, audio and data media transport system was designed to maintain lossless fiber extension between input and output signals. New signals may be added to most products without the need for additional fiber through our proprietary daisy-chain technology, with the exception of DVI, 3G HD-SDI, GigE and USB. 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.

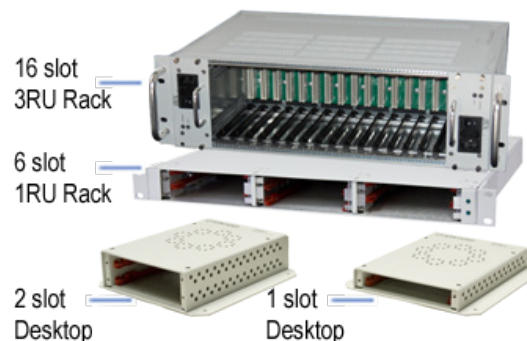
System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19"

optiva PLATFORM

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.

Enclosure Options



U.S. Patent #'s 7720385 & 8064773

DATASHEET **FIBER OPTICS**

Models

Transceiver
OTP-1GETR-XX-LC
OTP-1GETR-L4x1-LC
OTP-1GETR-NOC

Transmitter	Receiver
OTP-1GETR-XX/XX-SC	OTP-1GERT-XX/XX-SC

- When ordering replace "XX" or "XX/XX" with one of the Optical Codes
- Contact us for this chart: When ordering CWDM, replace "x" in the Optical Code L4x1 with A (1270 nm) through R (1610 nm)
- NOC: non-optical card
- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation
- Standard connection type is UPC

Ethernet

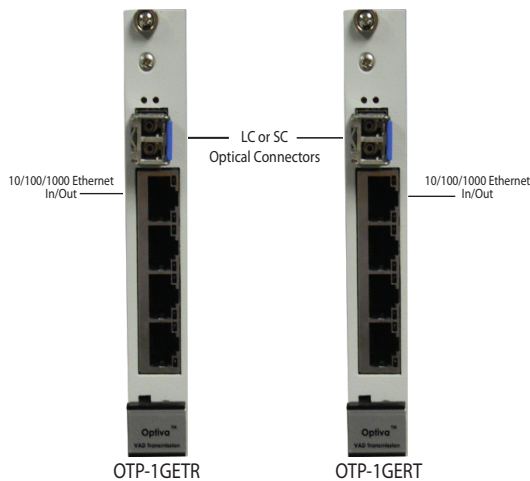
Specifications	Values
Standard	IEEE 802.3, 802.3u, 802.3ab, 802.3x, 802.1p; QoS (optional)
Data Rate	10/100/1000 Mbps
Connector	RJ-45
MAC Address Table	1 Kbyte
Packet Buffer Memory	1 Mbit
Jumbo Frames	Up to 10K Bytes
Ports	4

Simplex / Duplex Optical Specifications

Optical Code "XX or XX/XX"	Fiber Type / Number	Wavelength (nm)	Min. Output Power (dBm)	Rx Sensitivity (dBm)	Optical Budget (db)	Distance (km)	Connector Options
A0/A0	MM/2	850	-10	-17	7	0.5	LC
A1/A1	MM/2	1310	-5.5	-10.5	5	2	LC
A2/A2	SM/2	1310	-5.5	-12.5	7	10	LC
A2D/A2D	SM/2	1310	-5.5	-17.5	12	20	LC
A3/A3	SM/2	1550	-3.5	-20.5	17	40	LC
A3D/A3D	SM/2	1550	0	-25	25	60	LC
L4x1/L4x1	SM/2	1270 to 1610 (CWDM)	-2.5	-28	25	50 to 70	LC
A2/A3*	SM/1	1310/1550	-5.5	-17.5	12	20	SC
A3/A2*	SM/1	1550/1310	-5.5	-17.5	12	20	SC

- *Use "XX/XX" as is for ordering transmitter models but reverse for ordering receiver models

Connection Diagram



General

Specifications	Values
Dimensions (Insert Card)	6.69"L x 0.81"W x 5.06"H
Weight	11 oz.
Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% (non-condensing)
Operating Voltage	9-12 VDC
Power Consumption	6 Watts
Bit Error Rate	10 ⁻¹⁴
System Latency	< 1 ms
Warranty	3 Years

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

