



Features

- 10/100/1000 Ethernet over Fiber
- Singlemode Options (up to 60 km)
- Multimode Options (up to 2 km)
- Supports Ethernet QoS (Optional)
- Supports IEEE 802.3, 802.3u, 802.1p & 802.3ab standards
- Compatible with MDM-7000 Series for CWDM Multiplexing
- RoHS Compliant
- 3-Year Warranty

Applications

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

Ethernet Transmission

The OTP-1GETR transports 10/100/1000 Mbps Ethernet traffic over a dual LC multimode or singlemode SFP.

The OTP-1GETR is an excellent choice for ethernet ethernet over long or short distances. It also features a 4-port non-blocking ethernet switch so multiple devices can be plugged in simultaneously. Additionally, the OTP-1GETR is part of the innovative Optiva Series Video, Audio and Data Optical Transport System. It offers a comprehensive choice of user-configured options for transporting a wide variety of signals over fiber.

System Design

Optiva insert cards support both 19" rackmount and compact 1 and 2 card tabletop or wall-mountable

optiva | PLATFORM

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 4-slot (Model: OT-CC-4-1U) which houses 4 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).

Switching and multicasting 1 Gig Ethernet signals over optical fiber is quick and easy by routing OTP-1GETR links through the Optilinx Switching Platform, making this the perfect solution for Data-com Routing and Switching. The combination of Optiva and Optilinx facilitates flexibility for choice of video, audio, and data transport. With Optilinx, cabling is done once to create a completely optical transport network. Combined with the Optiva Platform, the system is flexible to transmit, switch or convert signals on custom optical mesh networks.

DATASHEET **FIBER OPTICS**

Ordering Information

Transmitter	Receiver
OTP-1GETR-XX/XX-YY	OTP-1GERT-XX/XX-YY
OTP-1GETR-NOC	OTP-1GERT-NOC

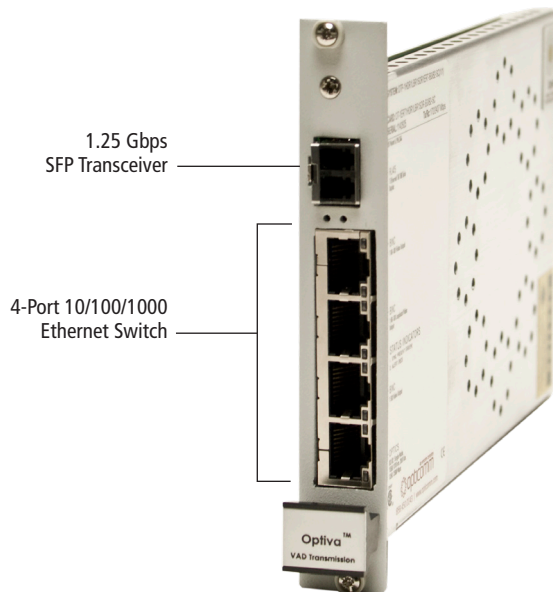
- When ordering, replace "XX/XX" with one of the optical codes specified below
- When ordering, please substitute the "YY" in the model for one of the following optical connectors: ST, FC, SC, or LC
- Standard connector type is UPC
- NOC: non-optical card

Optical Specifications

Optical Code	Fiber Type	Wavelength (nm)	Optical Budget (dB)	Distance (km)
A0/A0	Multimode	850/850	7	0.5
A1/A1	Multimode	1310/1310	5	3
A2/A2	Singlemode	1310/1310	7	10
A2D/A2D	Singlemode	1310/1310	12	20
A3/A3	Singlemode	1550/1550	17	40
A3D/A3D	Singlemode	1550/1550	25	60
A1/A3M	Multimode	1310/1550	5	3
A2/A3	Singlemode	1310/1550	12	20
A2/A3D	Singlemode	1310/1550	17	40
A2/A3H	Singlemode	1310/1550	25	60
L4x1/L4x1	Singlemode	CWDM	Varies	20-70

- 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	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

General

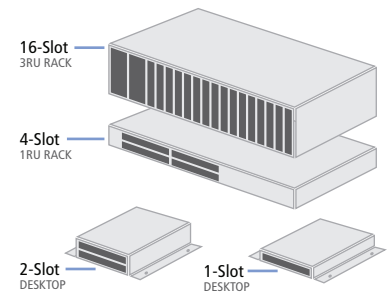
Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% (non-condensing)
Operating Voltage	9-12 VDC
Power Consumption	6 Watts
Bit Error Rate	10 ⁻¹⁴
System Latency	< 1 ms
Warranty	3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

Enclosure Options



Compliance

