

# 10G Optical Transport Network (OTN) Line Card

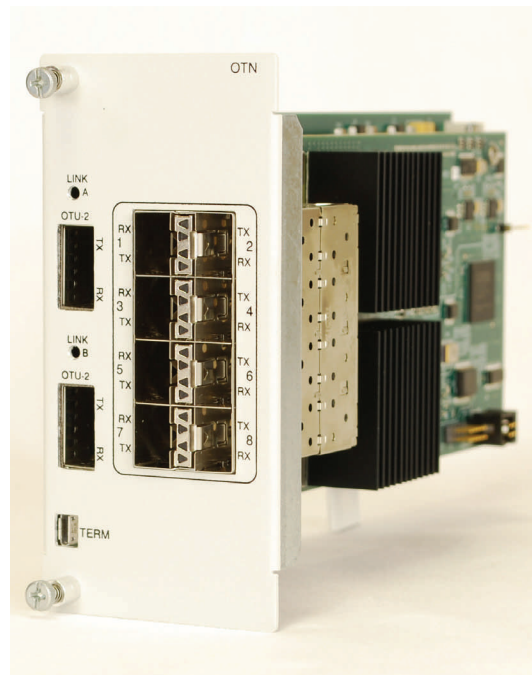
OTN10GF

## PRODUCT HIGHLIGHTS

- Support for data protocols: GbE, Fibre Channel
- Support for Sonet/SDH interfaces from 155Mb to 2.5G
- Dual 10G line-side support for protection and internal pass-through
- Sub-50ms protection
- FEC-enabled 100km line-side distances
- Flexible SFP-based clients and XFP-based line-side
- Support for tunable XFP
- Compatible with GigaMux 1600/3200 platform
- Remote provisioning and management eliminates truck rolls

**The 10G Optical Transport Network (OTN) line card introduces new levels of efficiency for multiprotocol transport.**

## ENABLING MULTIPROTOCOL WAVELENGTH GROOMING



The Optical Transport Network (OTN) line card combines multiprotocol support with high density efficient muxing for today's high bandwidth and service consolidation requirements.

The OTN line card offers:

- Support for Sonet OC3/OC12/OC48, SDH STM 1/4/16, and OTU1
- Support for Gigabit Ethernet, 1/2/4G Fibre Channel
- Add, drop, mux, pass-through on a single line card via a built-in switching capability
- Dual 10G line-side support for sub-50ms protection and internal pass-through
- FEC-enabled 100-km line-side distances

## BUILT-IN ADD/DROP FUNCTIONS

By integrating muxing and add/drop features, the OTN linecard eliminates the need for an external mux or add/drop device. In addition, by supporting both data and TDM rates, the OTN card allows for collapsing legacy systems into a single transport system, thereby lowering management and maintenance costs when compared to a multiple device system.

## FLEXIBLE SFP AND XFP BASED INTERFACES

The OTN10GF line card features SFP-based client interfaces and enables copper or fiber connections, thereby supporting a wide variety of distances and extending the reach to the customer demarcation. The OTN10GF line-side is XFP-based lineside optics with integrated FEC.

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## TECHNICAL SPECIFICATIONS

### NETWORK TOPOLOGY

- Point to Point
- Linear Add/Drop
- Ring

### INTERFACES

Line-side type:

- 2 XFP-based LC/UPC connectors on pluggable optics
- FEC
- Automatic Protection Switching (APS)
- UPSR
- Automatic Power Shut Down (APSD)
- Line Loopback
- Line performance monitoring
- 20 Gbit/s line side data rate

Client side type:

- SFP-based LC/UPC connectors on pluggable optics
- 1, 2, 2.5, and 4 Gbit/s line rates
- Client loopback
- Client performance monitoring

### SERVICES

- Ethernet 1 Gbit/s—up to 8 client ports
- ESCON—up to 4 client ports
- Fibre Channel 1, 2, and 4 Gbit/s—up to 8 client ports
- OTU-1—up to 2 client ports
- SONET OC-3/12/48—up to 4 client
- SDH STM-1/4/16—up to 4 client ports

### MANAGEMENT

- CLI, WaveBrowser and ZMS
- IMN (MPM to MPM)
- SNMP v2

### CHANNEL DENSITY

- DWDM channel spacing 50/100 GHz
- C-Band Support
- 10G Tunable—up to 80 channels in C-Band

### OPERATING REQUIREMENTS

- Hot Swappable: Yes
- Operating Temperature 5-40° C
- Short Term Operating Temp -5-55° C
- Storage Temperature -40-75° C
- Operating Humidity 5% to 85%
- Short Term Humidity 5% to 90%

### REGULATORY

- CE, FCC, and UL

### DIMENSIONS

- 3 slot GigaMux 1600/3200 line card



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