

# 10G Optical Ethernet Transport (OET) Line Card

OCM OET-10GF

## PRODUCT HIGHLIGHTS

- 10 x 1G to 10G Ethernet Mux Transponder
- Built-in switching features enable add, drop, mux, pass-through, and ROADM functions
- 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
- Compatible with GigaMux 1600/3200 platform
- Remote provisioning and management eliminates truck rolls

**The 10G Optical Ethernet Transport (OET) line card introduces new levels of efficiency for Ethernet transport.**

## FUSING THE LATEST ETHERNET AND WDM TECHNOLOGIES

The Optical Ethernet Transport (OET) line card combines multiplexing, switching and protection all on a single card, reducing costs and improving efficiency for all Ethernet transport applications.

The OET line card offers:

- Multiplexing 10x Gigabit Ethernet interfaces into 10G
- Add, drop, mux, pass-through on a single line card via a built-in layer 2 switch
- Dual 10G line-side support for sub-50ms protection and internal pass-through
- FEC-enabled 100-km line-side distances



## TRUE RING SUPPORT

The Sorrento OET line card makes back-to-back line cards with fiber jumpers an architecture of the past. Built with an on-board layer 2 Ethernet switch and two 10G line-side interfaces, the OET single line card handles all add, drop, and pass-through functions. This enables applications where Gigabit Ethernet #1 on an OET line card is added at a site, passes through another site and is dropped off at the third site, while Gigabit Ethernet #2 on the same OET line card is added at a same site, passes through two sites and is dropped off at a fourth site — all with a single OET line card per site, no external fiber jumpers, and sub-50ms protection (see Topology Diagrams).

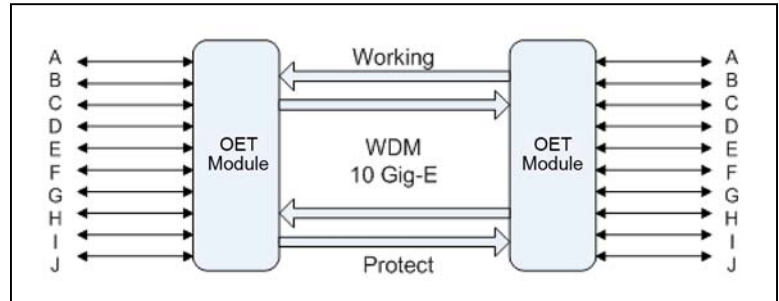
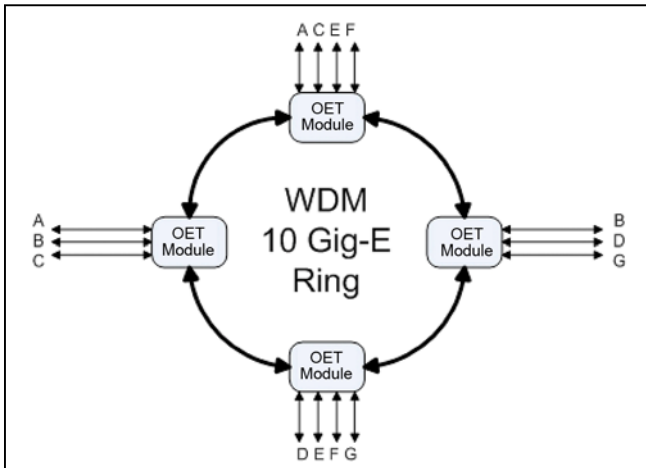
## BUILT-IN ROADM FUNCTIONALITY

With the built-in layer 2 Ethernet switch and dual line-side support, channels can be remotely and dynamically provisioned as pass-through or add/drop as customer demands change, providing ROADM-like functionality and significantly reducing network operations costs.

## FLEXIBLE SFP AND XFP BASED INTERFACES

The OET 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 OET line-side is XFP-based supporting 2 x 10G with full 40 channel support, and FEC or transparent mode operation.

## TOPOLOGY DIAGRAMS



## TECHNICAL SPECIFICATION

### DIMENSIONS

- 3 slot GigaMux 1600/3200 line card

### INTERFACES

Line-side type:

- XFP-based LC/UPC connectors on pluggable optics

Client side type:

- SFP-based LC/UPC connectors on pluggable optics

### STANDARDS SUPPORTED

- Gigabit Ethernet
- Standard IEEE 802.3z/D5
- Transparent, full-duplex with 1.25 Gbps throughput
- 10 Gigabit Ethernet
- Configuration data rate transparent
- Line rate of 10.3125 Gbps

### MANAGEMENT

- Compatible with CLI, WaveBrowser and ZMS

### BANDWIDTH/DISTANCES

- Based on optical specifications for pluggable modules

### 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%



**Sorrento Networks**  
9137 East Mineral Circle  
Suite 340  
Centennial, CO 80112

Sorrento Networks is a global provider of metro optical access solutions, offering an edge-to-regional CWDM, DWDM and ROADM product portfolio to carriers and enterprises. Sorrento Networks' GigaMux and GigaEdge optical transport products efficiently add bandwidth to clients' networks, and transport mission-critical services and applications across the network infrastructure. The company is headquartered in Denver, Colo., with offices in Oakland, Calif. and Stuttgart, Germany. For more information, visit [www.sorrentonet.com](http://www.sorrentonet.com). Sorrento, the Sorrento Networks logos and all other Sorrento Networks product or service names are trademarks or registered trademarks of Sorrento Networks, Inc. All other trademarks are property of their respective owners. Copyright 2008 Sorrento Networks. All rights reserved.