

10G DWDM Linecard with support for 10GbE and OC192/STM64 - fixed optics

- ✓ *Multi-service optical interface for universal high speed service provisioning*
- ✓ *Protocol independent, enabling efficient delivery and installation of services*
- ✓ *Multi-rate optical interface, supporting OC-192 / STM-64, 10 GbE WAN PHY and 10 GbE LAN PHY, for a wide range of applications*
- ✓ *Supports distances up to 40/80 km without dispersion compensation or longer reaches with dispersion compensation and amplification*

The 10G GigaMux OCM provides a high-speed, multi-service transport interface, enables service providers to efficiently deliver a mix of services, supporting a wide range of high-speed applications and topologies. With a high performance laser designed specifically for very low dispersion, the OCM-10G allows service providers to cost-effectively extend the reach of their 10 Gigabit systems. Based on Sorrento's intelligent optical layer technology, the OCM-10G is designed to operate at the native physical layer, increasing the speed and flexibility of service provisioning; eliminating the need to deploy new hardware when the service mix changes. An OC-192 / STM-64 service delivered to a customer site can rapidly be changed to a native 10 GbE LAN PHY or 10 GbE WAN PHY service through a simple remote configuration command.

The OCM-10G supports a variety of high-speed CPE optical interfaces, including OC-192 / STM-64, 10 GbE LAN PHY, and 10 GbE WAN PHY. Through the OCM-10G's architecture, users can rapidly change the rate of the application interface through a single management command executed at the local OCM-10G. The corresponding remote OCM-10G will then be automatically configured to the same rate through Sorrento's non-intrusive In- Wavelength Management (IWM) channel. With the scalability of the GigaMux's optical access service architecture, service providers can expand the capacity of their service delivery by providing a multiservice mix for up to 40 wavelengths over a fiber pair.

The OCM-10G can reside in any of the following GigaMux enclosures: GM 3234, GM 3217, GM 1608. Interoperating with all Sorrento modules, the OCM-10G offers cost-effective service deployment in O-UPSR rings, linear add/drop and point-to-point topologies. The OCM-10G is also designed for use with corresponding Fixed Add-Drop Multiplexer Modules (FADM), allowing the add-drop of a wavelength at one or more particular locations in a multi-drop topology. When utilized with the MD100 filter core, up to 40 channels of 10G wavelengths are supported.

The OCM-10G is easily managed via Sorrento's Management System (ZMS) and command line interface. This allows customers to manage remote network elements without an extensive IP infrastructure, and troubleshoot and isolate problems quickly and effectively. The GigaMux Management Processor Module (MPM) directly manages the local and remote OCM-10Gs and performs remote download of software, which reduces maintenance costs and greatly simplifies network upgrades.

Technical Specifications

Dimensions

- 4" H x 1.6" W x 8.25" D
- (100 mm x 40 mm x 210 mm)

Interfaces

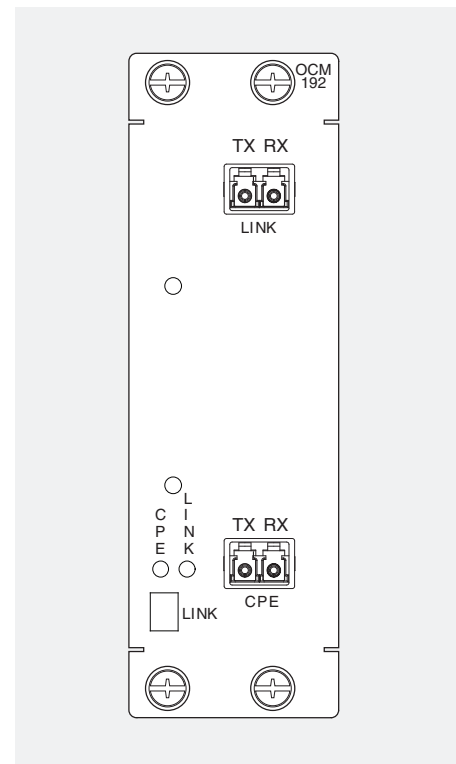
- LC/UPC connectors line-side
- SC/UPC connectors client-side

Protocol Support

- SONET / SDH—
- Type OC-192 / STM-64
- Standard Conforms to Telcordia
- GR253-CORE
- SONET transport
- Configuration Data rate transparent,
- line rate of 9.953 Gbps
- Connector LC
- Mode 1310nm Singlemode /
- Multimode (SM/MM)
- 10 Gigabit Ethernet —
- Type 10 GBASE
- Configuration Data rate transparent,
- line rate of 10.3125 Gbps
- Connector LC
- Mode 1310nm Singlemode /
- Multimode (SM/MM)
- Specifications
- Launch Power (Min): 0 dBm
- Launch Power (Max): 3 dBm
- Receive Power (Min): -22 dBm
- Receive Power (Max): -6 dBm
- Link Budget: 20 dBm
- Dispersion Tolerance:
- Note: Link budget includes dispersion penalty at max distance.

Regulatory Compliance

- (When properly installed in a WaySystem Chassis)
- Safety UL 1950, 3rd Edition
- IEC 60950, 3rd Edition
- (according to CB Scheme)
- EMC FCC Part 15 Class A (USA)
- EN 55022 Class A (Europe) GM
- 3234, 3217
- EN 55022 Class B (Europe)
- GM 1608
- VCCI Class A (Japan)
- EN61000-3-2/3
- Harmonics/Flicker
- Immunity EN61000-4-2/3/4/5/6/11
- ESD/EI/EFT/Surge/LFCI/VDS
- ENV50140-RI
- Telecom FCC Part 68 (USA)
- Designed for NEBS
- Level 3 compliance



Ordering Information

LX12580-XX	10G linecard, 80km dispersion
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LX12582-XX	10G linecard, 40km dispersion
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(XX Represents ITU channel number 20-59)



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