

- ✓ *Multi-service optical interface for universal service provisioning*
- ✓ *Protocol independent, enabling efficient delivery and installation of services*
- ✓ *Multi-rate optical interface, supporting OC-3/STM-1, OC-12/STM-4, OC-48/STM-16, Fibre Channel (1.06 Gbps and 2.1 Gbps), and Gigabit Ethernet, for a wide range of applications. 4G fibre channel support on the OCM2 4G linecard*
- ✓ *Full 3R (reshaping, regeneration, retiming) capability for reliable transport of services*
- ✓ *Remote provisioning and management, eliminating expensive truck rolls*
- ✓ *Non-intrusive In-Wavelength Management (IWM) of remote modules, eliminating the expense and complexity of a dedicated optical supervisory channel*

GigaMux 3200 SFP based CWDM/DWDM optical transponder

The Optical Channel Module version 2 (OCM2) provides multi-service transport interfaces, enabling service providers to efficiently deliver a mix of services, supporting a wide range of applications employed by enterprise customers. Based on Sorrento's intelligent optical layer technology, the OCM2 is designed to operate at the native physical layer, increasing the speed and flexibility of service provisioning; making the deployment of new hardware for delivery of different services unnecessary. Through the use of client and lineside SFP based interfaces, the OCM2 module supports up to 2 client and 2 line-side optical modules, providing double the density of previous linecards.

The OCM2 2.5G supports a variety of CPE optical interfaces such as OC-3/STM-1, OC-12/STM-4, OC-48/STM-16, Fibre Channel (1.06 Gbps and 2.1 Gbps), and Gigabit Ethernet. Through the OCM's multirate architecture, users can rapidly change the rate of the application interface through a single management command executed at the local OCM. The corresponding remote OCM will then be automatically configured to the same rate through Sorrento's non-intrusive In-Wavelength Management (IWM) channel. The OCM2 4G supports the same linerates as the OCM2 2.5G with the addition of 4G Fibre Channel. By utilizing clear-channel operations, the OCM2 4G can interface directly with third party WDM optical signals from remotely connected client equipment.

The OCM resides in any of the GigaMux enclosures GM 1608, GM 3217 and GM 3234. It terminates up to two CPE optical interface and transports it onto a corresponding wavelengths. With the scalability of the GigaMux's optical access service architecture, service providers can expand the capacity of their service delivery by providing a multi-service mix of applications over the fiber infrastructure. The OCMs deliver each of the services, which are then multiplexed together through the GigaMux's WDM modules.

The OCM can be easily managed via the command line interface, the WavCommand, or through remote network management via WavBrowser or the Sorrento Management System (ZMS). The GigaMux Management Processor Module (MPM) directly manages the local and remote OCMs and performs remote download of software, which reduces maintenance costs and greatly simplifies network upgrades.

Technical Specifications

Dimensions

- Dimensions 4" H x .8" W x 8.25" D
- (100 mm x 20 mm x 210 mm)

Interfaces

- Typically LC/UPC based SFP interfaces

Standards Support

- Gigabit Ethernet—
- Type 1000Base-FX
- Standard IEEE 802.3z/D5
- Transparent, full-duplex with 1.25 Gbps throughout
- SONET/SDH—
- Type OC-3/STM-1, OC-12/STM-4, OC-48/STM-16
- Standard GR253-Core SONET transport
- Configuration Transparent, line rates of 155 Mbps, 622 Mbps, 2.48 Gbps
- Fibre Channel—
- Standard ANSI X3.230 - 1994
- Transparent, line rate of 1.06 Gbps, 2.1 Gbps (4Gbps on OCM2 4G)

Bandwidth/Distance

- See GigaMux SFP Optical Specification information

Regulatory Compliance

- (When properly installed in a GigaMux Chassis)
- CE (GM 3234/3217/1608)
- Telcordia NEBS Level 3 Compliant
- (GM 3234/3217)
- OSMINE TIRKS and NMA
- 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 1608/1602
- 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)

Operating Requirements

- Operating Temperature 41-104° F/5-40° C
- Short Term Operating Temp 23 to 131° F/-5-55° C
- Storage Temperature -40 to 167° F/-40-75° C
- Operating Humidity 5% to 85%
- Short Term Humidity 5% to 90%

Ordering Information

OCM2-2.5G	Multirate SFP based transponder linecard with inband management and support up to 2.5G 2 X client, 2 x line
OCM2-4G	Multirate SFP based transponder linecard with clear-channel and support up to 4G 2 X client, 2 x line



Sorrento Networks, Inc.
+1 510.577.1499 phone
www.sorrentonet.com

For more information visit www.sorrentonet.com or e-mail info@sorrentonet.com.

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02 12 2008