

- ✓ *4-port OC-12/STM-4 or 16-port OC-3/STM-1 mux*
- ✓ *Full transmission ranges (100 km, 300 km, 600 km)*
- ✓ *Highly-efficient sub-rate Sonet/SDH aggregation*
- ✓ *Robust SONET/SDH performance monitoring, testing*
- ✓ *Wavelength multiplexing, traffic aggregation*
- ✓ *"SONET-over-DWDM"*

GigaMux 6400 16 Port Sonet/SDH Multiplexer

GMSMX-2.5G is a three-slot, 16-port multiplexer aggregates OC-3/STM-1 and/or OC-12/STM-4 traffic into an OC-48/STM-16 wavelength. The module supports internal, external and line clock synchronization. It also supports SONET/ SDH Performance Monitoring, including loopback test features. By utilizing Sonet/SDH level muxing, providers can more efficiently carry high capacity links over their WDM based backbone infrastructure. In addition, by multiplexing directly at the optical layer, the GMSMX removes the need for additional OC48/STM16 level Sonet/SDH muxes at the central office site.

The channels on the GMSMX-2.5G modules can be programmed for OC-3/STM-1 or OC-12/ STM-4 signals. Each OC-12/STM-4 group can be kept at the aggregate 622Mb service or further broken into constituent services at the OC-3/STM-1 level. This flexibility allows the GMSMX to mix and match services up to an aggregate of OC-48/STM-16.

Technical Specifications

Dimensions

- 3 slot GigaMux 6400 linecard

Power

- 65 watts

Interfaces

- Trunk Side FC/SC/ST
- Client-side LC/UPC 1310nm
- Access Reach (1800 ps/nm dispersion)
 - Transmit
 - Min Tx: -2 dBm
 - Max Tx: +1 dBm
 - Min Rx: -28 dBm
 - Max Rx: -8dBm
- Access Reach (5,400 ps/nm dispersion)
 - Transmit
 - Min Tx: -4 dBm
 - Max Tx: +0 dBm
 - Min Rx: -28 dBm
 - Max Rx: -8dBm
- Regional Reach (10,800 ps/nm dispersion)
 - Transmit
 - Min Tx: -4 dBm
 - Max Tx: +0 dBm
 - Min Rx: -28 dBm
 - Max Rx: -8dBm

Standards Support

- Client:
 - OC-3/STM-1, OC-12/STM-4, 1310nm
 - Standard GR253-Core SONET transport
- Line:
 - OC-48/STM16, ITU wavelength
 - 2.48 Gbps

Bandwidth/Distance

- 100KM, 300KM, and 600KM Native dispersion limit

Regulatory Compliance

- (When properly installed in a GigaMux Chassis)
 - Telcordia NEBS Level 3 Compliant
 - Safety UL 1950 Third Edition, FCC Part 15, Class B,
 - NEBS Compliance GR-63-CORE, GR-78-CORE, GR-1089-CORE
 - EMC EN 60950, EN 55022-4, EN 300-386

Operating Requirements

-5° to +50° C

Ordering Information

GMSMX-2.5G-A-40Cxx-01	16XOC3/STM1, 4XOC12/STM4 MULTIPLEXER, 3 SLOT, 2 SLOT, ACCESS (100 KM)
GMSMX-2.5G-M-40Cxx-01	16XOC3/STM1, 4XOC12/STM4 MULTIPLEXER, 3 SLOT, 2 SLOT, METRO (300 KM)
GMSMX-2.5G-R-40Cxx-01	16XOC3/STM1, 4XOC12/STM4 MULTIPLEXER, 3 SLOT, REGIONAL (600 KM)

XX is replaced with ITU channel 20-59



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