

- ✓ *Aggregate bandwidth is 2.48 Gbps*
- ✓ *Supports fractional Gigabit Ethernet*
- ✓ *Composite OC-48/STM-16 output*
- ✓ *SONET/SDH PM, loopback test, timing options*
- ✓ *Full transmission ranges (100 km, 300 km, 600 km)*
- ✓ *Wavelength multiplexing, data aggregation*
- ✓ *Ethernet LAN extension, IP-based storage*

### GigaMux 6400 4 port Gigabit Ethernet Multiplexer

With the continued growth in data communications, operators today are being challenged to delivery high-grade Ethernet services at increasingly lower price points. The GMGE4-2.5G EPC multiplexer aggregates Gigabit Ethernet traffic into an OC-48/STM-16 wavelength. This module supports SFP based client inputs with support for 850nm, 1310nm, and even long reach 155xnm for remote client locations.

The GMGE4-2.5G is a two-slot, four-port module. Each port can be software provisioned to carry data rates between 150 Mbps and 1 Gbps, which are in 150 Mbps increments. One SFP is required for each Gigabit Ethernet input. The module supports internal, external and line clock synchronization. It also supports Performance Monitoring on the Ethernet and composite OC-48/STM-16 streams, including loopback test features. There are three versions of this module, GMGE4-2.5G-A, GMGE4-2.5G-M, GMGE4-2.5G-R, where a maximum distance of 100 km, 300 km and 600 km is supported, respectively.

## Technical Specifications

### Dimensions

- 2 slot GigaMux 6400 linecard

### Power

- 50 watts

### Interfaces

- Trunk Side FC/SC/ST
- User Side Dual LC Singlemode/Multimode (SFP based)
- 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

- Gigabit Ethernet—
- Type 1000Base-FX
- Standard IEEE 802.3z/D5
- Transparent, full-duplex with 1.25 Gbps throughout

### 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

GMGE4-2.5G-A-40Cxx-01	4 X GBE MULTIPLEXER, 2 SLOT, ACCESS (100 KM)
GMGE4-2.5G-M-40Cxx-01	4 X GBE MULTIPLEXER, 2 SLOT, METRO (300 KM)
GMGE4-2.5G-R-40Cxx-01	4 X GBE MULTIPLEXER, 2 SLOT, REGIONAL (600 KM)

XX is replaced with ITU channel 20-59



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