GigaMux 3200/1600 Optical Amplifier

LX12352, LX12351

- ✓ *Integrated EDFA module design*
- ✓ *Gain flattened amplification of up to 40 wavelengths*
- ✓ *Automatic gain control maintains constant gain as wavelengths are added or removed*
- ✓ *Supports configurations as post-, pre- or line amplifier*
- ✓ *Compatible with ring, point-to-point, multi-drop and mesh networks for flexible in implementation*
- ✓ *Protocol independence allows delivery of multiple services over optical access link*

Optical Amplifiers for the GigaMux 3200/1600 platform

The Optical Signal Amplifier Module (OSAM) provides an affordable and flexible means of extending the metro optical network or compensating for passive network elements and passthrough nodes.The OSAM installs easily into a Sorrento GigaMux 3234, 3217, or 1608 chassis in a post-, pre- or line amplifier configuration.The optical signal gain is dynamically adjustable from a local or remote location, to adapt quickly and easily to changes in the optical network. Like other optical components in the GigaMux, the OSAM is protocol independent, supporting WDM with multiple services—including Gigabit Ethernet, Fibre Channel and SONET/SDH, as well as T1/E1 and 10/100 Ethernet.

The OSAM is designed to provide optimal performance throughout the network. Its input power-monitoring feature allows it to be implemented as a post-amplifier, pre-amplifier, or line amplifier, simplifying network design and reducing the number of network elements.The OSAM is compatible with a variety of network configurations, including ring, point-to-point, point-to-multipoint and single channel multi-drop topologies. Signal-to-noise ratio is maximized to ensure signal integrity and the highest level of network performance.

Offered in two different versions, Sorrento's OSAM provides the optimum performance characteristics for any network configuration. The OSAM types include: • OSAM-Low Power (OSAM-LP): Gain flattened for up to 40 wavelengths • OSAM-High Power (OSAM-HP): Gain flattened for up to 40 wavelengths

All OSAMs are fully integrated into Sorrento’s Management System, allowing monitoring of optical signal strength throughout the network. All OSAMs also provide monitoring of local laser temperature, current and power, as well as the notification of state and status. In addition, the OSAM-LP and OSAM-HP offer automatic gain control, maintaining a constant gain as wavelengths are added or removed from the network. Power and gain control are offered with an option for either automatic or manual operation mode.

DATASHEET

GigaMux 3200/1600 Optical Amplifier

Technical Specifications

Dimensions

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

Power

- OSAM-LP 10 watts
- OSAM-HP 20 watts

Interfaces

- All connections made with LC/UPC connectors

Protocol Support

- OSAM-LP ITU channels 20-59
- (1530.33nm - 1558.98nm)
- OSAM-HP ITU channels 20-59
- (1530.33nm - 1560.61nm)
- OSAM-LP
- Max Gain with Min Input: 16 dB
- Noise Figure: 6 dB
- Gain Flattened: Yes
- OSAM-LP
- Max Gain with Min Input: 22 dB
- Noise Figure: 6 dB
- Gain Flattened: Yes

Regulatory Compliance

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

Ordering Information

LX12352	Amplifier, OSAM H, 18DBM, 2 slots
LX12351	Amplifier, OSAM L, 10DBM, 2 slots

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