

- ✓ *Combined 1+1 optical A/B switch and splitter modules (uni-directional)*
- ✓ *Software-adjustable thresholds for each port*
- ✓ *Automatic, manual, and lockout switching operation*
- ✓ *Rapid protection switching (< 10 ms)*
- ✓ *Low insertion loss, compact design*

Channel, Group, Band, Trunk Protection Module

Designed to provide flexible and scalable protection, the DPM module incorporates multiple protection scheme options within a single module. In order to insure high reliability and the ability to quickly switch to protection, the DPM module insures optical signals are sent and received across both the working and protection, thereby enabling a high speed optical protection switching mechanism based on loss of light at any layer of density from the individual channel to entire multi-channel fiber trunks.

The GMDPM is an intelligent 1 + 1 protection switch, suitable for single channel, group, band, or trunk switching. This module should be used in systems designed for Uni-directional traffic. It can be installed at both the receive and transmit end as it functions like a combined transmit and receive protection module. The GMDPM module is also equipped with built-in attenuators to adjust the working and protection signal.

Several software configurable features are supported by the GMDPM module. It supports SONET-style revertive and nonrevertive modes of operation, including forced, manual and lockout switching modes. Protection switching is software configurable. The receive switching threshold level (for switching between the Working and Protection paths) can also be configured using Sorrento Networks software. This threshold value is configurable between 1 dB. An internal switch will occur if there is a Loss of Power, Power is low. Once a switch has occurred there is a Wait-to-Restore (WTR) period, which can be set between 5-12 minutes.

Technical Specifications

Dimensions

- 1 GigaMux 6400 linecard slot

Power

- 15 Watts

Interfaces

- All interfaces are LC/APC
- Transmit Specifications
- Insertion loss: 4.5dB Max
- Attenuation Range: 30dB Min
- Input Power: 24dBm
- Receive Specifications:
- Insertion loss: 2dB Max
- Saturation: 7dBm
- Threshold Range
- Power loss: -30dBm to 0dBm
- Power low: -30dBm to 0dBm
- Automatic Switching Speed: 10ms Max
- Return Loss: 45dB

Standards Support

- Protocol/Bit-rate transparent for all services up to 10G

Management

- CLI, GigaView, ZMS

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



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