

Digital Transport

**Prisma IP™ Subtending Ring Card Set
Multi-Ring Flexibility for Resilient Packet Ring Metro Networks**

Flexible vehicle for extending RPR rings

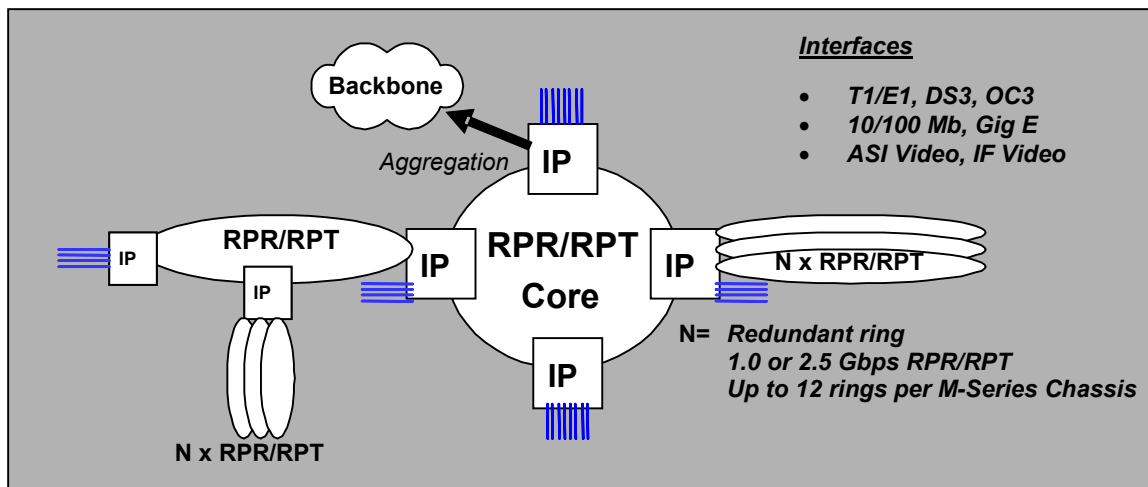
Metropolitan Area Network (MAN) service providers today face the challenge of providing affordable and scalable packet data services while still offering a range of requisite TDM voice and private line services. The Scientific-Atlanta® Prisma IP™ family of metro optical switches is designed to meet this need. The Prisma IP Subtending Ring line cards are flexible solutions providing support for extending survivable optical rings to the access or network edge. A single chassis can now “hub” multiple optical rings for efficient service aggregation.

Features

- Available versions include 1.0 or 2.5 Gbps RPR/RPT rings
- Extend TDM and transparent LAN services between rings
- 1+1 redundancy option and hot swap capability
- Supports dual ring protection for card and span
- Extends survivable ring topologies to the network edge
- May be installed in either an M-Series or C-Series Prisma IP chassis
- Subtending Ring is compatible with M-Series, C-Series and E-Series Prisma IP platforms

Bridges Metro Access to Metro Core Resilient Packet Rings

The Subtending Ring Card Set supports seamless transport of voice, video and data services between multiple Resilient Packet Ring (RPR)/Resilient Packet Transport™ (RPT) rings – while maintaining stringent toll-quality parameters for TDM services. The card set includes the Subtending Ring Card (SRC) front card and the Subtending Ring I/O Card (SRIO) rear card, and is available in two different versions: 1.0 and 2.5 Gbps RPR/RPT rings. A single M-Series Prisma IP can serve as a “hub” chassis for up to 12 subtending rings (6 protected). A single C-Series Prisma IP can serve as a “hub” chassis for up to 4 subtending rings (2 protected).



Prisma IP Subtending Ring Card Set



Specifications

| Network Specifications | |
|--|---|
| Interface Specifications for Rear I/O Card | <p>1.0 Gbps RPR*/RPT Intermediate Reach 1310 nm</p> <ul style="list-style-type: none"> - Rx Input Power (max) = -3 dBm - Rx Sensitivity Minimum (avg) = -19 dBm - Tx Power (avg) = -11 (min) to -3 (max) dBm <p>2.5 Gbps RPR/RPT Intermediate Reach 1310 nm</p> <ul style="list-style-type: none"> - Rx Input Power (max) = 0 dBm - Rx Sensitivity Minimum (avg) = -22 dBm - Tx Power (avg) = -10 (min) to -3 (max) dBm <p>1.0 Gbps RPR/RPT Long Reach 1550 nm</p> <ul style="list-style-type: none"> - Rx Input Power (max) = -3 dBm - Rx Sensitivity Minimum (avg) = -23 dBm - Tx Power (avg) = -3 (min) to 2 (max) dBm <p>2.5 Gbps RPR/RPT Long Reach 1550 nm</p> <ul style="list-style-type: none"> - Rx Input Power (max) = -7 dBm - Rx Sensitivity Minimum (avg) = -30 dBm - Tx Power (avg) = -2 (min) to 3 (max) dBm |
| Performance Parameters | Conforms to RFC 2863 for the Interface Group MIB Full optical LOS monitoring capabilities |
| Supported Standards | Telcordia GR-1089 |
| Physical Specifications | |
| Connectors | Small form factor pluggable (SFP) Optics <ul style="list-style-type: none"> - 1310 Intermediate Reach, 10 km - 1550 Long Reach, 70 km |
| Environmental | Operating temperature: 0° to 50°C / 32° to 122°F <i>(extended operation above 40°C / 104°F not recommended)</i> Storage temperature: -40°C to 70°C / -40°F to 158°F Humidity: 5% to 85% (non-condensing) Power: Front Card - 90 Watts (max) Rear Card - 15 Watts (max) |
| Protection | Unprotected single subtending ring configuration Dual subtending ring configuration Protected single subtending ring configuration Hot swappable front and rear cards |
| Physical | Slot Width: 1 Front Card, 1 Rear I/O Card Number of ports per card: 4 TxRx optical pairs (1 East TxRx, 1 West TxRx, 2 Bypass TxRx pairs) |
| Agency compliance | |
| Safety | UL, cUL, TÜV |
| Emissions | FCC CLASS A, CE |

**This includes a pre-standard implementation of RPR. The product cannot be claimed to be RPR-compliant, since the standard is not yet finalized.*



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