

Digital Transport

Prisma IP™ DS3 M13 TDM I/O Card

Description

While packet/IP traffic continues to experience high growth rates, carriers must still accommodate a large number of legacy TDM circuits such as DS3 private lines. The Prisma IP™ DS3 M13 TDM I/O card provides carriers with a flexible interface to support applications such as T1 grooming and aggregation. This standards-based I/O interface supports six channelized DS3 ports, multiplexing T1 channels into a DS3. The Prisma IP system, based on Resilient Packet Ring (RPR) protocol (IEEE 802.17), provides support for Stratum-level synchronization over an asynchronous packet network. By providing circuit emulation over RPR, users can groom and aggregate T1 signals from any T1 on any Prisma IP M-, C-, or E-series port. The Prisma IP DS3 M13 I/O cards are hot-swappable, without service interruption, and support 1+1 line card protection to ensure maximum uptime. The Prisma IP DS3 M13 TDM I/O card is a new I/O card for the existing Prisma IP TDM-U line card, which also supports an OC3/STM-1 I/O card.

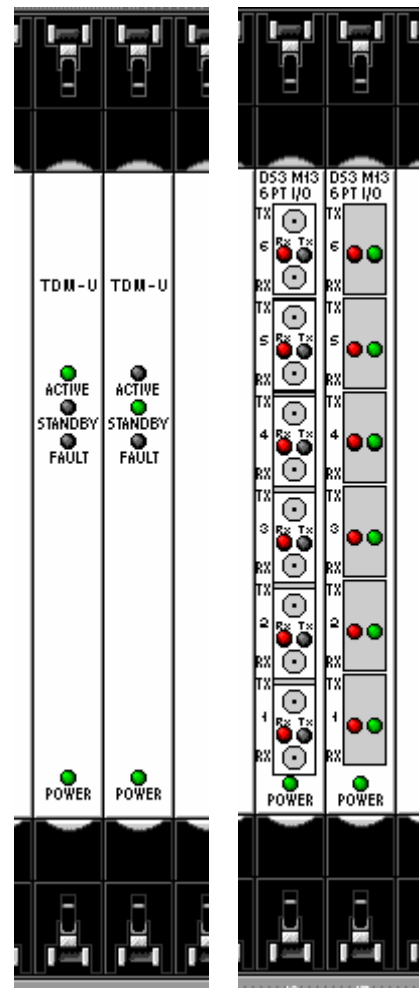
Scientific-Atlanta's packet-based Prisma IP Multi-Service Platform delivers a new level of carrier-class reliability and performance to Metropolitan Area Networks (MANs) service providers. These Multi-Service Access/ Transport Platforms provide full support for legacy voice and circuit services, while delivering a wide range of new, revenue-producing, differentiated data services.

Complete System Management

The DS3 M13 cards can be managed via the Prisma IP Element Management System (EMS). EMS incorporates all the Fault, Configuration, Accounting, Performance, and Security (FCAPS) management capabilities demanded by public carriers. The EMS is a scalable software suite used to manage multi-service networks. It features an intuitive graphical user interface that facilitates administrative tasks in a simple and efficient manner. Integrated management functions include monitoring, event notification, service provisioning and system configuration for all products.

Features and Benefits

- Supports six channelized DS3 ports per card - high-density solution supports T1 grooming and aggregation
- 1+1 protection - ensures maximum uptime
- Resilient Packet Ring Technology - sub-50 ms network restoration
- Hot-swappable I/O cards - avoids service disruptions
- Compatible with both M-Series and C-Series Prisma IP chassis - flexibility to support networks today and tomorrow
- Configured, provisioned and managed by Prisma IP Element Management System (EMS) - powerful management capabilities reduce operational expenses



Specifications

Prisma IP DS3 M13 TDM I/O Card	
Slot Width	Single Prisma IP Card
Circuits per Card	6 circuits, each with two ports (Tx and Rx)
Connectors	1.0/2.3 coax connector, 75 ohm – requires interface cable
DS3 Data Rate	44.736 Mbps +/- 20 ppm
Buildout Provisioning	Short Haul Mode – 450 ft loop (225 ft one way) Long Haul Mode – 900 ft loop (450 ft one way)
Framing	CBIT or noCBIT
Line Coding	B3ZS
Buffering	20 ms Circuit emulation packet jitter buffer per DS1 channel
Standards	G.703, G.704, GR-499, GR-820, T1.102, T1.107, T1.231, T1.404
Protection	1+1 card protection – optional configuration
Performance Parameters (statistics)	Line; – CV, ES, SES P-bit (Path); – CV, ES, SES, UAS, SAS (SEF/AIS Seconds) C-bit (C-bit framing only); – CV, ES, SES, UAS FE (Far End, C-bit framing only); – CVCP-PFE (based on FEBE), ESCP-PFE, – SESCO-PFE, UASCP-PFE
Operating Temperature	0 to 50°C
Storage Temperature	-40 to 70°C
Humidity	5 to 85% (non-condensing)
Power	65 Watts
Agency Compliance	Safety: UL, cUL & TÜV Emissions: FCC Part 15B & CE

Ordering Information

Description	Part Number
Prisma IP 6-Port DS3 Rear I/O Card with M13 Mux/Demux Function	4009427
Prisma IP TDM-U Universal Time Division Multiplex Front Card	4001165
Duplex 6 ft DS3 Interface Cable Assembly (non-redundant applications)	4009816
Duplex 25 ft DS3 Interface Cable Assembly (non-redundant applications)	4009817
Duplex 10 ft DS3 Interface Y-Cable Assembly (1+1 redundant applications)	4009818

Ordering Notes

- For non-redundant applications, there must be a DS3 M13 I/O card, a TDM-U Front Card, and six DS3 non-redundant cable assemblies.
- For 1+1 redundant applications (high availability option), there must be two DS3 M13 I/O cards, two TDM-U Front cards, and six DS3 1+1 redundant Y-Interface cable assemblies.



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