

IP Uplink card transporting TDM-based traffic into the IP cloud!

- ✓ *RJ45 and SFP uplink options.*
- ✓ *Full Redundancy support.*
- ✓ *Up to eight full E1/T1 TDM streams into the IP network.*
- ✓ *Electrical facilities and PWE facilities on the same node!*

The IMACS IP Uplink card employing Pseudowire (PWE) technology (PRM-883570) is the latest advance of the IMACS TDM platform. In answer to the call to develop a means for our customers to migrate TDM traffic into the IP world without a forklift upgrade, the Pseudowire card delivers all a customer would ever need to begin to explore TDM traffic over the IP cloud. Leveraging the easy to use provisioning utilized by all IMACS products, circuit provisioning maintains the same look and feel as our other IMACS offerings. When a user wants to create an IP PWE stream, they do so at the WAN level, sending the selected voice and data traffic out the front of the PWE card via the built-in RJ45 or through the use of an external SFP. Our customers can selectively add or remove priority traffic from the electrical WAN and migrate any DS0 traffic through the IP network.



The PWE card supports MPLS, UDP/IP as well as MEF headers on the outbound IP port. Eight individual streams through the IP port on the card can be created, each uniquely provisioned for IP destination address, stream identifier, jitter value and much more. The PWE card can additionally be used as a timing source for a node, with any two PWE streams being selected to provide Adaptive Clock Recovery (ACR).

Easy to use, familiar provisioning methods and providing a presence into the IP packet transmission world, the PWE IMACS card offers an easy and affordable means to transfer rock-solid TDM traffic over the IP cloud.

The flexibility of the IMACS platform continues with the ability to encapsulate the entire bandwidth destined for the IMACS within eight different Ethernet pipes, or allows the customer to funnel partial WAN facilities into the PWE and maintain the use of electrical WAN offerings as well! The IMACS still has the capacity to terminate eight WAN facilities to the shelf while continuing to provide the flexibility and customer-friendly IMACS offerings our customers have grown to expect in every mature IMACS product.

Technical Specifications

Dimensions

- Card Dimensions (HWD):
 - 8.0in x 0.94in x 7.5in
 - 20.32cm x 2.39cm x 19.05cm
- Shelf Support:
- IMACS 600 (HWD):
 - 9.12 in. x 17 in. x 9.12 in.
 - 23.16 cm x 43.2 cm x 23.16 cm
- IMACS 800 (HWD):
 - 9.12 in. x 17 in. x 15.3 in.
 - 23.16 cm x 43.2 cm x 38.86 cm
- IMACS 900 (HWD):
 - 15.4 in. x 17 in. x 9.12 in.
 - 39.12 cm x 43.2 cm x 23.16 cm
- IMACS 8000 (HWD):
 - 9.12 in. x 17 in. x 15.3 in.
 - 23.16 cm x 43.2 cm x 38.86 cm

Weight

- .95 lbs (.43kg)

Power

- IMACS Shelf:
- 120 / 240 VAC
- 48 VDC
- 24 VDC (IMACS 600, 800, 900 only)
- Power consumption: 125 W (max)
- Output Power: 55 W continuous
- AC-to-DC power converter (-48 VDC)
- Dual feed & redundancy
- Ring generation

Interfaces

- One mutually exclusive RJ45 uplink or 1 GigE SFP.

Standards Support

- RFC 5086 Pseudowire 3 CEsoPSN
- As an edge device, compliant through the use of header manipulation with:
 - MEF 3.0, 8.0
 - Y.1413 - TDM over MPLS network interworking
 - MFA 8.0 - Emulation of TDM circuit over MPLS
 - G.823 Jitter/wander in 2048 kbit/s
 - G.824 Jitter/ wander in 1544 kbit/s
 - G.261 Timing and synchronization in packet networks (adaptive clock)

Management

- Telnet
- Local Craft port
- SNMP
- MegaSys Telenium Network Management System
 - Manages networks of IMACS
 - Centralized management
 - Operates on LINUX
 - Point & click graphical user interface
 - Management of configurations, alarms, connectivity, diagnostics
 - Multi-user environment
 - SNMP-based
 - Supports TELNET for emulation of craft interface
 - IP addressing for node addresses
 - RS-232, VT-100 craft interface

Bandwidth/Distance

- Eight full-featured WAN facilities.

Operating Requirements

- Operating Temperature: 32°F to 149°F (0°C to 65°C)
- Storage temperature: 32°F to 158°F (0°C to 70°C)
- Humidity: Up to 85%, non-condensing
- Altitude: -200ft to 16,500ft (-60m to 5,000m)

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