

E1 Access Module for IPD 12000E/4000E

- ✓ *24-ports of industry-standard E1/Fractional E1 lines with integrated DSU/CSUs to save time, money and rack space*
- ✓ *Supports Ethernet over bonded-E1 facilities for delivery of high-speed, symmetric data services*
- ✓ *Simple, 'Plug & Play' operation, including automatic loop bonding of E1 lines with no configuration or complex set-up requirements*
- ✓ *MTM Traffic Management Support for traffic control, traffic steering, and packet prioritization*
- ✓ *Full 802.1Q VLAN support for easy to provision VPNs*
- ✓ *Embedded CLI, SNMP, and web-based management system for easy, platform-independent remote management*

Zhone's E1 Inverse Multiplexer provides high-speed, symmetrical data solutions over standard E1 lines for Zhone's Broadband Loop Carrier (BLC) 12000E and 4000E systems. Designed for ease-of-use, the EIM2000 modules offer the simplicity of 'Plug & Play', configuration-free installation and set-up.

The EIM2000's high-bandwidth backhaul aggregation is a field-proven solution, ideal for connectivity to remote DSLAMs, business end-users, and cellular backhaul. The EIM2000 provides 24 standard E1 interfaces with integrated DSU/CSUs, and supports native E1 signaling and clear-channel repeaters to ensure ready access to all of your customers, regardless of location or proximity to Telco Central Offices. Support for Fractional E1 facilities provides additional flexibility for providing a variety of bandwidth service offerings to the end-users.

The EIM2000 module supports a robust, E1 loop bonding technology, which provides the ability to bond multiple E1 lines together, incrementally increasing bandwidth to a remote location or customer premise. Using a compatible CPE, such as the ENE2000-S, ENE2020-S, ENE2044-S, or ENE2084-S, the EIM2000 will automatically bond E1 lines to form resilient and reliable high-bandwidth trunks. No configuration or loop bonding set-up is required. Automatic fail-over and recovery distinguishes Zhone's loop bonding solutions from legacy ATM and IP bonding technologies such as E1 IMA and MLPPP - if an E1 line is added or removed (or if one of the E1 circuits incurs a fault), the remaining lines stay active.

The EIM2000 access modules support Zhone's Multimedia Traffic Management (MTM) feature set, which includes packet QoS, rate limiting, traffic steering, and advanced packet filtering. MTM ensures that specific applications are given appropriate priority and bandwidth allocation throughout the system, while marking the packets for upstream network devices.



Technical Specifications

Dimensions

- 12.75" H x 1.15" W x 16.75" D
- 32.4cm H x 2.9cm W x 42.5cm D

Weight

- 5.6 lbs (2.5 kg)

Power

- 0.8A @ -48 VDC

Interfaces

- 24 E1 Ports (2-RJ21 50-pin Telco connectors)
- Integrated DSU/CSUs

Standards Support

- IEEE 802.3 Ethernet
- IEEE 802.1Q VLANs
- ITU G.704 E1

Protocol Support

- Framing: ESF; SF/D4
- Line Coding HDB3; AMI
- Local or Loop Timing

Bandwidth/Distance

- Selectable to 256Kbps, 512Kbps, 768Kbps, 1,024Kbps, 1,280Kbps, 1,536Kbps, 1,792Kbps, 1,984Kbps
- Unlimited Distances (utilizes clear-channel, E1 repeaters)

Regulatory Compliance

- NEBS: GR-63-CORE, GR-1089-CORE
- EMC: FCC Part 15; CSA/C108.8; EN55022; EN55024; CE Marking
- Safety: UL1950, CSA C22.2 No. 950; EN60950; CE Marking

Operating Requirements

- Temperature: 32°F to 122°F (0°C to 50°C)
- Non operating: -40°F to 158°F (-40°C to 70°C)
- Humidity: 5% to 95%, non-condensing
- Altitude: -200ft to 16,500ft (-60m to 5,000m)

Ordering Information

EIM2000-24

24-port E1 Inverse Multiplexer module for the IPD12000E/4000E

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