

4 port E1 over Ethernet (IP)

IPM-4SE



IPM-4SE is designed as a multiservice access platform for PDH over IP applications. E1 frames can be mapped/de-mapped into/from IP packets. An adaptive clock recovery method for Ingress PDH (PSN ->TDM) clock generation is implemented to support E1(ITU-T G.823) Jitter performance.

IPM-4SE provides cost-effective applications of traditional circuit switched system over IP. With IPM-4SE, it is easy to interconnect existing phone systems over IP that are used to carry data, voice and video. With high precision clock recovery technology, IPM-4SE is capable of supporting 2G/3G backhaul and provides smooth services. IPM-4SE can transparently transport proprietary signaling that is required to support PBX features, including call conference, call forwarding and SS7.

Features

- Support IETF RFC4533 Structure-Agnostic TDM over Packet (SAToP), Metro Ethernet Forum MEF8.
- 4 x E1 NRZ Serial Interface with LOS/AIS detection
- Use Raw Encapsulation method for PDH payload over IP packet.
- Support Circuit Emulation Service over IP.
- Comply with IETF draft standard for CESoPSN and SAToP; Metro Ethernet Forum MEF8 IA.
- Support both Point-to-Point and Point-to-Multipoint operation.
- Support 4 independent Adaptive Clock recovery block for Ingress PDH (PSN -> TDM) clock generation. Recovered clock jitter is compliant with ITU-T G.824 (E1 Jitter Control).
- Independent configurable jitter buffer depth to compensate up to 250ms of Packet Delay Variation.
- Support framed/unframed traffic (ITU-T G.704)
- Lost packets processing/compensation via PW (Pseudo Wire) control field Sequence Number.
- Provide Subscriber side Data traffic bandwidth control to guarantee enough TDM payload bandwidth.
- PDH LOS detection triggered PWL field or payload AIS generation at Egress direction (TDM -> PSN).
- Configurable IEEE 802.3 DA/SA assignment.
- Configuration can be made through RS-232 console port.

Specifications

User interface	Port: up to 4 x E1 (ITU-T G.703) Interface: RJ-48c (120 Ohm) Line Coding: HDB3
Ethernet interface	Port: 100 Base-T Ethernet Interface: RJ-45
Dimensions	44 x 370 x 215mm (H x W x D)
Main power supply	AC: 110 ~ 240V @ 47 ~ 65Hz DC: -72V ~ -36V (Option)
Environment condition	Ambient temperature: 0°C ~ 50°C (0°C ~ 65°C, optional) Storage temperature : 0°C~ 85°C Relative humidity: 5 ~ 95% non condensing
Configuration and management	RS-232 console port, CLI or SNMP-based management



Ordering Information

Model Name	Description
IPM-4SE-AD (CO)	4 E1 over Ethernet CO modem with AC+DC power
IPM-4SE-AD (CPE)	4 E1 over Ethernet CPE modem with AC+DC power

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Example: IPM - 4SE - AD(CO)