

IPM-4SE

4x E1 over Ethernet with Web Management



Supports P to P Operation

IPM-4SE is designed as a multiservice access platform for PDH over Ethernet applications. E1 frames can be mapped/de-mapped into/from Ethernet 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 Ethernet. With IPM-4SE, it is easy to interconnect existing phone systems over Ethernet 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

- Supports IEF T RFC4533 Structure-Agnostic TDM over Packet (SATO P), Metro Ethernet Forum MEF8.
- 4 x E1 NRZ Serial Interface with LOS/AIS detection
- Use Raw Encapsulation method for PDH payload over IP packet.
- Supports Circuit Emulation Service over IP.
- Comply with IEF T draft standard for CESoPSN and SAToP; Metro Ethernet Forum MEF8 IA.
- Supports Point-to-Point operation.
- Supports 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.
- Supports framed/unframed traffic (ITU-T G.704)
- Lost packets processing/compensation via PW (Pseudo Wire) control field Sequence Number.
- Provides 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

Application



Ordering Information

Model Name	Description
IPM-4SE-AD	4x E1 over Ethernet with AC+DC power

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Example: IPM - 4SE - AD