IPM-E1/IPM-4E1

E1/4x E1 over Ethernet with Web Management

IPM-E1/4E1 is designed as a multi-service 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-E1/4E1 provides cost-effective applications of traditional circuit-switched systems over Ethernet. It is easy to interconnect existing phone systems over Ethernet networks that are used to carry data, voice and video. With high precision clock recovery technology, IPM-E1/4E1 is capable of supporting 2G/3G/4G backhaul and provides smooth services. IPM-E1/4E1 can transparently transport the proprietary signaling that is required to support PBX features, including call conference, call forwarding and SS7. Customer can easily apply and enjoy better integration of TDM and Ethernet devices with lower network expense. With a pair of IPM-E1/4E1 and guaranteed bandwidth, it is sure to save cost dramatically, and to ensure the QoS of voice based on interconnections of TDM equipment.
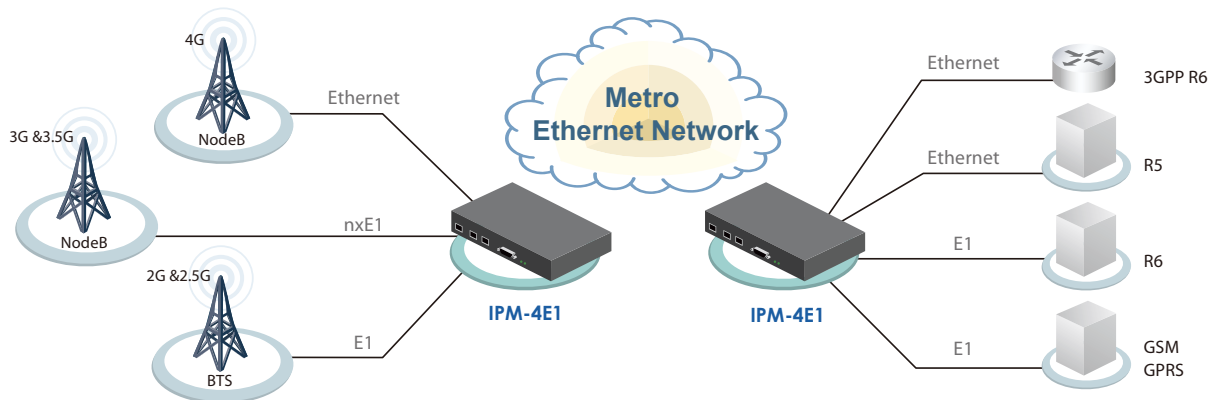
Features

- Supports Console, Telnet and Web Management
- Supports IETF RFC4553 Structure-Agnostic TDM over Packet (SAToP), Circuit Emulation Service over Packet Switched Networks (CESoPSN), Metro Ethernet Forum MEF8
- Supports both Point-to-Point and Point-to-Multipoint operation
- Supports Adaptive Clock recovery for Ingress PDH (PSN -> TDM) clock regeneration. Recovered clock jitter is compliant to ITU-T G.823 (E1 Jitter)
- Configurable jitter buffer depth to compensate for PDV (Packet Delay Variation) with the flexible setting of 11ms, 23ms, 40ms, 75 ms

- 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 PW L field and payload AIS generation at Egress direction (TDM->PSN)
- Configurable IEEE 802.3 DA/SA assignment
- LED alarms display for E1 LOS/AIS

Specifications

E1 Interface		
	Standards	ITU-T G.703, G.704, G.706, G.732
	Ports	1 or 4-Port
	Data Rate	2.048Mbps ±50ppm
	Connector	RJ-48c for 120 ohm
	Line Coding	HDB3
Ethernet Interface	WAN Port	100 Base-TX Ethernet
	Interface	RJ-45
	LAN port	100 Bases-TX Ethernet
	Interface	RJ-45

Dimensions	125 x 320 x 44 mm (D x W x H)
Power	AC: 85 ~ 264V @ 47 ~ 63Hz
	DC: -72V ~ -36V
Environment	Ambient temperature: 0° ~ 50°
	Storage temperature: 0°~ 85°
	Humidity: 5 ~ 95% non-condensing
Management	Console or Telnet / Web / SNMP management (via Ethernet)

Application

Ordering Information

Model Name	Description
IPM-E1-AD	E1 over Ethernet with built-in AC+DC Power
IPM-4E1-AD	4E1 over Ethernet with built-in AC+DC Power

Port Number   Power Type

IPM – □□□ – □□

Example: IPM – 4E1 – AD