Enabling the hyper-connected world

MXK-PWE-T1/E1-24

The MXK T1/E1 PWE line card uses PWE3 Psuedo-wire Emulation End-to-End technology and is designed to work with other TDMoIP devices from Zhone.

Features & Benefits

+ TDM support in a Next Generation Network
+ T1/E1 structured/unstructured CES support
+ Multiple clock recovery mechanisms
+ Works in the MXK chassis alongside the most flexible family of line cards in the industry: from POTS to VDSL2, from T1/E1 to PON

The MXK T1/E1 PWE line card uses PWE3 Psuedo-wire Emulation End-to-End) technology and is designed to work with other TDMoIP devices from Zhone. Customer premise equipment from Zhone supporting TDMoIP can be used with the T1/E1 PWE line card in the MXK for a complete end-to-end TDM over packet solution. Each line card supports up to 24 T1/E1 circuits that can each be separated from other network traffic using IEEE 802.1Q VLANs. Zhone's PWE implementation supports both structured and unstructured circuits.

Although many networks have upgraded or will upgrade to packet transport, older products still require TDM interfaces. The T1/E1 PWE line card for the MXK supports Circuit Emulation over a packet network allowing TDM-based services to be transported over the packet network. Using a single network infrastructure for both packet and TDM services saves OPEX and CAPEX.

Service providers can use MXK's flexible architecture to deploy different technologies such as POTS, xDSL, xPON, EFM and Active Ethernet on the same platform in their Central offices or Remote Terminals as a fiber to the premises (FTTP) or Fiber to the node (FTTH) network element. The MXK chassis is available in multiple form factors providing a solution for all deployment sizes.

MXK-PWE-T1/E1-24
Product Specifications

Power
- 18W nominal; 30W max w/ 0.5W per loop

Interfaces
- 96-pin Molex connector for 24 T1 or E1 Circuits

Standards Support
- IETF-PWE3 TDMoIP
- ITU-T G.823/824
- ITU-T Y.1413, Y.1414
- ITU-T Y.1452, 1453
- D4 and ESF per T1.403
- IEEE 802.3 Ethernet
- 802.1Q, 802.1p

Protocol Support
- Bridging 802.1D
- VLAN 802.1Q tagging
- 802.1ad (Q-in-Q)
- 802.1p marking and queuing
- IP routing

Management
- ZMS management system via SNMP
- Terminal for Command Line Interface (CLI)
- Web UI

Regulatory Requirements
- Safety: UL 60950-1; CSA 60950-1; EN 60950-1
- Emissions: EN 55022A; PART 15A (FCC)
- Immunity: GR-1089-CORE, Issue 3; SR-3580, Issue 1; ATT-TP-76200, Issue 14; VZ.TPR.9205, Issue 3
- Environmental: GR-63-CORE, Issue 3

Operating Requirements
- Temperature: -40°C to 65°C
- Non operating temperature: -40°F to 158°F (-40°C to 70°C)
- Humidity: Up to 85%, non-condensing
- Heat generated: 61 BTU nominal; 102 BTU max

Ordering Information

Model	Description
MXK-PWE-T1/E1-24	24-PORT T1/E1 PWE LINE CARD
MXK-CBL-T1/E1-24-45DEG	CABLE FOR MXK 24 PORT T1/E1 LINE CARD

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