

## Overview

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 DZS. Customer premise equipment from DZS 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. DZS'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.

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## Specifications

### KEY FEATURES

- 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

## 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 COMPLIANCE

- 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 |

## Contact

For more information, connect with us at  
[dazanzhone.com/contact](http://dazanzhone.com/contact)



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