Voice POTS line card with VoIP and integrated ringing support

✓ *Line Card with Integrated Derived POTS*

✓ *Support for SIP, MGCP, and H.248*

✓ *Support for SIP PLAR for Voice Gateway applications*

✓ *Operates in the MXK 819/823 and MXK 319 Chassis*

✓ *Environmentally Hardened*

Zhone's MXK intelligent terabit access concentrator reflects a clean-sheet approach to truly scalable multi-service architecture, designed to meet the rapidly evolving demands on access networks. The MXK is a full-featured Multi Service Access Platform enabling service providers to combine data, video and voice in one platform over a pure packet access network. MXK gives carriers the flexibility to cost-effectively deliver triple play services over existing facilities. The POTS line cards for the MXK are high density modules that provide flexible voice over IP capabilities for the MXK 819/823 and MXK 319 Chassis.

The integrated derived POTS lines convert packet voice to PSTN POTS allowing service providers to take advantage of a low-cost packet network and still provide subscribers with traditional POTS service. The card supports packet voice protocols SIP, MGCP, and H.248. For easy migration from TDM voice to packet voice, the MXK can be connected to the MALC Voice Gateway card to provide GR-303 or V5.2 termination with packet voice connection to the POTS card at a remote site.

Zhone's SLMS (Single Line Multi-Service) access operating system provides intelligent functionality across all the company's hardware products. Driven by 8 years of experience in commercial operation and collaboration with 700+ service providers worldwide, Zhone's SLMS software delivers functionality critical to today's access networks in advanced networking, quality of experience, voice, security, and

Technical Specifications

Interfaces

- Integrated POTS

Voice Support

- Integrated ring generation
- 72 ports of derived POTS
- TDM voice and packet voice supported
- Packet VoIP voice protocols supported:
  - MGCP (RFC 3435)
  - SIP (RFC 3261)
  - MEGACO (H.248)
  - SIP PLAR
- Pulse dialing and DTMF support
- G.711 encoding with G.168 Echo Cancellation
- T.38 UDPTL
- G.729 with fallback to G.711 for Fax
- Metering pulse 12kHz/16kHz
- Polarity Reversal

Management

- ZMS (Zhone Management System) via SNMP v2c for GUI and CORBA/XML IDL machine interface
- Terminal for Command Line Interface (CLI)
- Built-in Web GUI Management
- Out-band IP over 10 / 100 Base-T Ethernet

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*
- *In process

Operating Requirements

- Ambient operating temperature: -40° C to +65° C
- Relative operating humidity: up to 85% (non-condensing)
- GR-487 compliant
- Designed for outside plant deployment

Ordering Information

MXK-POTS-72	72-Port POTS Line Card
MXK-CBL-72-72-CAT3-10FT	CABLE(2) 78PIN TO (2) 78PIN MALE CONNECTORS, 72-PORT CARDS, CAT3 UNSHIELDED, 10FT/3.05M
MXK-CBL-72-CAT3-10FT	CABLE (2) 78PIN TO (3) 50PIN MALE CONNECTORS, 72-PORT CARDS, CAT3 UNSHIELDED, 10FT/3.05M
MXK-CBL-72-CAT3-10FT-BLUNT	CABLE (2) 78PIN TO BLUNT END, 72-PORT CARDS, CAT3 UNSHIELDED, 10FT/3.05M
MXK-CBL-72-72-CAT3-100FT	CABLE (2) 78PIN TO (2) 78PIN MALE CONNECTORS, 72-PORT CARDS, CAT3 UNSHIELDED, ROHS, 100FT/30.47M
MXK-CBL-72-CAT3-100FT	CABLE (2) 78PIN TO (3) 50PIN MALE CONNECTORS, 72-PORT CARDS, CAT3 UNSHIELDED, 100FT/30.47M,ROHS
MXK-CBL-72-CAT3-100FT-BLUNT	CABLE(2) 78PIN TO BLUNT END, 72-PORT CARDS, CAT3 UNSHIELDED, 100FT/30.47M