

- ✓ *Supports 1588v2, SyncE, and E1/T1/BITS timing inputs*
- ✓ *Can be utilized in both single and redundant configurations*
- ✓ *Full range of management options including SNMP, CLI, and integration into Zhone's ZMS Element Management System*
- ✓ *Industrial temperature hardened*



Demands on access networks continue to accelerate, and technology advances change and evolve at light speed to cope with this growth. To build a platform with more than 10-years reach requires a networking innovator with extraordinary vision, proven bench strength and experience, and of course, exceptional technology to keep pace.

With over 1,000 global customers deploying Zhone's world-class solutions for their service provider and enterprise networks, in some of the harshest and most demanding environments in the industry in its pedigree, Zhone's MXK-F™ ultra high-capacity fiber-optimized aggregation platform is the latest cost-effective addition to its world renowned MXK™ portfolio.

At the heart of this highly-capable platform is the MXK-F™ Management Card. With countless years of proven field experience, the management architecture of the MXK-F™ represents Zhone's latest state-of-the-art design, further raising the bar set high by other Zhone MXK-family solutions.

With a fully distributed database, both boot and upgrade times are exceedingly low to reduce enterprise and service provider OPEX, and since the forwarding plane control does not reside on the MXK-F™ Management Card, reboots and upgrade events are much simpler ensuring an optimal level of both reliability and availability - particularly when optionally equipped with redundant MXK-F™ Management Cards.

Also, in addition to its management duties and user interface support ports, MXK-F™ Management Cards provide synchronization connection points for Synchronous Ethernet, 1588v2, and E1/T1/BITS timing inputs.

Technical Specifications

Dimensions

- 7.40" x 0.87" x 8.33" (188mm x 22mm x 212mm)

Power

- MXK-MC-TOP (F14xx only)
 - Shelf powered; 16W nominal/maximum
- MXK-MC-AETG2-TOP (F219 only)
 - Shelf powered; 23W nominal, 29W maximum when equipped with 2 SFP+ transceivers at 3.0W each

Interfaces

- 2-10G SFP+ AE NNI ports (MXK-MC-AETG2-TOP only)
- RJ-45 V.24 serial for async terminal
- RJ-45 10/100/1000 Base-T ETHERNET for management
- RJ-48 E1/T1/BITS
- DE-9 interface for PPS and TOD input

Protocol Support

- File Transfer Protocol (FTP) RFC 959
- Secure File Transfer Protocol (SFTP) RFC 2228
- SNMPv2c,v3, RFC 3411-RFC 3418
- HTTP / HTTPS
- Telnet
- SSH

Management

- ZMS (Zhone Management System)
- SNMP v2/v3
- Command Line Interface (CLI)

Regulatory Compliance

- Safety: UL 60950-1/R:2011-12 , CAN/CSA C22.2 No. 60950-1/A1:2011 , EN 60950-1/A2:2013
- Emissions: FCC Part 15 Class A, ICES-003 Class A, EN 55022:2010 Class A, ETSI EN 300 386 V1.6.1

Operating Requirements

- Ambient operating temperature: -40° C to +65° C
- Relative operating humidity: up to 85% (non-condensing)
- Designed for outside plant deployment
- Altitude: -200ft to 16,500ft (-60m to 5,000m)