

- ✓ *Aggregation switch delivers 40 Gbps to each access card slot*
- ✓ *Supports cross-card link aggregation*
- ✓ *Support for carrier-class active/standby redundancy, link aggregation, point-to-point, and ring configuration on all ports*
- ✓ *Supports fiber based SFP/SFP+*
- ✓ *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.



Exceptional capability on the access service side of the MXK-F™ architecture requires matching capability on the network-facing uplinks. MXK-F™ Fabric Cards provide efficient, reliable, and highly-available data path aggregation solution for flows destined for the Cloud. The MXK-FC-AETG8 Fabric Card provides eight multi-purpose active Ethernet uplink ports that can support either 1G SFP or 10G SFP+ fiber transceivers, and can be operated in either uplink or intra-link modes.

Additionally, MXK-F™ Fabric Cards cards provide full card and network redundancy by supporting an active card and backup standby in the same chassis. If a card or network failover occurs, the standby card will take over instantly. And for additional network resiliency, these cards support both cross-card and intra-link aggregation, as well as the EAPS ring protocol.

## Technical Specifications

### Dimensions

- 14.90" x 1.43" x 8.33" (378mm x 36mm x 212mm)

### Power

- MXK-FC-AETG8
  - Shelf powered; 182W nominal, 206W maximum when equipped with 8 SFP+ transceivers at 3W each

### Protocol Support

- Port VLAN (802.1D)
- Tagged VLAN (802.1q)
- Spanning Tree (802.1D)
- Rapid Spanning Tree (802.1w)
- MSTP (802.1s)
- LACP ( 802.3ad)
- IGMP v2/v3
- IGMP Snooping with Proxy reporting
- Broadcast Storm Protection
- Bridge Loop Protection
- Transparent L2/L3 VPN for business services
- L2 ACL ( Allow/Deny)
- Radius
- RFC 3619 (EAPS)
- 2 Rate 3 Color Policing; both Color Blind and Color Aware
- Traffic Rate Limiting
- Traffic Queuing (8 Priority levels)
- COS to DSCP Marking
- Strict Priority/WFQ ( Scheduling)
- Traffic Policing
- Traffic Class Mapping (802.1p)

### 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)