✓ *100Mbps/1Gbps/10Gbps fiber services selectable port by port*

✓ *100/1000BT Copper Services selectable port by port*

✓ *Supports 802.3ad Link Aggregation Control Protocol*

✓ *Supports up to 256 10Gbps AE ports on a fully-filled MXK-F1421 chassis*

✓ *Industry-leading SLMS traffic management provides QoS, traffic shaping, and security to support video, triple play, and other applications*

✓ *Full range of management options including SNMP, CLI, and integration into Zhone's ZMS Element Management System and OSS Gateway*

Bandwidth demands on access networks continue to accelerate, and technology advances change and evolve at rapid pace 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.

Introducing a new 10G Active Ethernet line card support point-to-point copper- and fiber-based Ethernet services at symmetric 10 Gbps data rate. These can be used to aggregate (or subtend) other Ethernet based devices or to provide high-bandwidth services to individual customer premises. Selection of an Active Ethernet point-to-point architecture equips services providers with a comfortably future-proof infrastructure as demand for individual subscriber data rates continue to rise.

The MXK-LC-ATG16 Active Ethernet single-slot card can connect up to 16 per card and 256 subscribers on a fully-equipped MXK-F1421.

Technical Specifications

Dimensions

- 14.90" x 0.87" x 8.33" (378mm x 22mm x 212mm)

Power

■ MXK-LC-AETG16
- Shelf powered; 124 W maximum when equipped with 16 SFP+ transceivers

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)