

## DATA SHEET

## MXK-F Active Ethernet Line Cards: MXK-LC-AEG32



## Features

- 100Mbps/1Gbps fiber services selectable port by port
- 100/1000BT Copper Services selectable port by port
- Supports 802.3ad Link Aggregation Control Protocol
- Supports up to 512 1G 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 DZS's ZMS Element Management System and OSS Gateway

## Overview

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 DZS' 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, DZS' MXK-F™ ultra high-capacity fiber-optimized aggregation platform is the latest cost-effective addition to its world renowned MXK™ portfolio.

The MXK-F™ portfolio includes several options for FTTx network design. Its Active Ethernet line cards support point-to-point

copper- and fiber-based Ethernet services at symmetric 100 Mbps or 1 Gbps data rates. 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-AEG32 Active Ethernet single-slot card can connect up to 512 subscribers on a fully-configured MXK-F1421. Designed for use with two-channel MSA compliant Compact SFP's, the 16 sockets on the card can be used to support fiber services to 32 customers per card. The card also supports single channel SFP's for a total of 16 subscribers per card.



## Specifications

### WEIGHT & DIMENSIONS

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

### POWER

MXK-LC-AEG32

- Shelf powered; 96W nominal, 119W maximum when equipped with 16 CSFP transceivers at 1.45W each

### 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)

### REGULATORY COMPLIANCE

Safety

- UL 60950-1/R:2011-12
- CAN/CSA C22.2 No. 60950-1/A1:2011
- EN 60950-1/A2:2013

EMC Emissions

- FCC Part 15 Class A
- EN 55022:2010 Class A
- ICES-003 Class A
- ETSI EN 300 386 V1.6.1

### 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)

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

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