



## DATA SHEET

### MXK-LC-GP16-5

(Prelim V1.0)



## Overview

Bandwidth 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 DNS'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, DZS's 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 ITU-standard GPON line cards providing 2.5Gbps downstream and 1.25 Gbps upstream bandwidth over a passive optical network on 16-ports per card. Using 128 splits per PON,

## Features

- ITU-T G.984 compliant w/ Type-B redundancy
- 16-port card supporting 32K ONTs per chassis
- Non-blocking architecture
- Fully standards-compliant Smart OMCI management of ONTs/ONUs
- Industry-leading SLMS traffic management provides QoS, traffic shaping, and dynamic bandwidth allocation for triple-play services
- Full range of management options including SNMP, CLI, WebUI, ZMS and OSS Gateway

MXK-F1421 platform can support up to 32K ONTs. MXK-LC-GP16-5 model supports 16 GPON ports in MXK-F14xx. MXK-LC-GP16-5 has a non-blocking architecture and will also support timing distribution option per 984.3 Amd 2.

GPON provides one of the most cost-effective ways for operators to deploy fiber-based services to the home, business, or node. With GPON splitters that can be co-located with at the CO or installed remotely in the network, the service provider can choose the network architecture that finds the right balance between capital cost optimization and ease of upgradeability.

As with all MXK™ product family platforms, intelligent processing enables GPON networks to deliver uncompromising quality for the full range of triple-play services.



## Specifications

### DIMENSIONS

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

### POWER

- Shelf powered; 92W nominal, 116W (396 BTU) max equipped with 16 x SFP transceivers at 1.5W each

### INTERFACES

- Subscriber Line Interfaces: (16) GPON

### PROTOCOL SUPPORT

- Bridging 802.1D
- VLAN 802.1Q with 802.1p
- IGMP
- IGMP Snooping with Proxy reporting
- ITU G.984.1- 984.4, G.988
- Broadcast Storm Protection
- Bridge Loop Protection
- Transparent L2/L3 VPN for business services
- Timing distribution option per 984.3 Amd 2 (enabled by software in a future release)

### REGULATORY COMPLIANCE

- Safety
  - CSA 22.2 No. 60950-1
  - EN 60950-1
  - UL 60950-1
- EMC Emissions/Immunity
  - FCC Part 15 Class A
  - EN 55022 Class A
  - ICES-003 Class A
  - EN 300 386

### ENVIRONMENTAL

- Ambient Operating Temperature: -40°C to 65°C
- Relative Humidity: Up to 85%, non-condensing

## Ordering Information

MODEL	DESCRIPTION
MXK-LC-GP16-5	ROHS, MXK 14U GPON LINE CARD (16) GPON PORTS, NON-BLOCKING, TIME OF DAY FB SUPPORT