DATA SHEET
MXK-F108
(Prelim V1.3)

Features

- ITU-T Standard GPON. Class B+ and Class C+ GPON SFP optics
- Fully standards-compliant Smart OMCI management of ONTs/ONUs
- SLMS family member supporting industry-leading multimedia traffic management
- Fiber Active Ethernet Uplinks with EAPS or LAG/LACP (802.3ad)
- Full range of management options including SNMP, CLI, WebUI, ZMS and OSS Gateway

Overview

The DZS MXK-F108 provides next generation 1U GPON OLT features in a compact, hardened form-factor that makes it easy and cost-effective to deliver uncompromising triple play services throughout the serving area. It has 8 GPON Ports with various integrated power options. The ITU-T standard GPON technology provides 2.5Gbps downstream and 1.25 Gbps upstream bandwidth over a passive optical network on each of the 8 ports of the unit.

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 scalability.

As part of the DZS Fiber Home portfolio targeting the traditionally challenging and expensive service locations for residential and business users, the MXK-F108

platforms' non-blocking architecture and intelligent processing enable GPON networks to deliver uncompromising quality for the full range of multi-play services, from multiple HDTV streams, video on demand, and video conferencing, to voice and high-speed internet access. The MXK-F108 design allows easy deployment in remote cabinets and space constrained central offices. The MXK-F108 platform offer unmatched bandwidth with non-blocking capacity while leveraging DZS's well-proven SLMS (Single Line Multi-Service) access operating system for sophisticated service intelligence.

DZS' SLMS access operating system provides intelligent functionality across all the company's hardware products. Driven by years of experience in commercial operation and collaboration with 1000+ service providers worldwide, DZS' SLMS software delivers functionality critical to today's access networks in advanced networking, quality of experience, voice, security, and management.

Specifications

WEIGHT & DIMENSIONS

- 8lbs (3.6kg)
- 1.73in H x 17.32in W x 11.8in D
- 4.4cm H x 44 cm W x 30cm D

POWER

- DC: -48V (Optional redundant DC Power Supply Modules)
- AC: 100-240V, 50/60Hz (Optional redundant AC Power Supply Modules)
- 55W

INTERFACES

- Uplink Interfaces: (4) SFP+ based 10GbE
- Subscriber Line Interfaces: (8) SFP based GPON Serial craft management interface
- 100/1000BT management interface
- Port Status LEDs

PROTOCOL SUPPORT

- EAPS RFC3619 support
- DHCP Relay with Option 82
- Bridging 802.1D support
- VLAN 802.1p/q support
- Link Aggregation and LACP 802.3ad support
- Multicast support, IGMPv2
- Integrated access control and content protection
- RADIUS Authentication

REGULATORY COMPLIANCE

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

ENVIRONMENTAL

- Operating Temperature:
  - MXK-F108 System: -40°C to 65°C
  - DC Power Supply Module: 40°C to 65°C
  - AC Power Supply Module: 20°C to 60°C
- Storage temperature: 40°C to 65°C
- Humidity: Up to 85%, non-condensing

Ordering Information

MODEL	DESCRIPTION
MXK-F108-AC-SDC	ROHS, MXK-F, 1U 8-GPON OLT, 4X1GE/10G UPLKS (SFP/SFP+), (1)SNGL DC PSU, (2)RED FAN SETS, -40-65C
MXK-F108-AC-NK	ROHS, MXK-F, 1U 8-GPON OLT, 4X1GE/10G UPLKS (SFP/SFP+), (1)120/240VAC PSU,(2)RED FANS, -20-60C, NA PLG
MXK-F108-AC-EU	ROHS, MXK-F, 1U 8-GPON OLT, 4X1GE/10G UPLKS (SFP/SFP+), (1)120/240VAC PSU,(2)RED FANS, -20-60C, EU PLG
MXK-F108-AC-UK	ROHS, MXK-F, 1U 8-GPON OLT, 4X1GE/10G UPLKS (SFP/SFP+), (1)120/240VAC PSU,(2)RED FANS, -20-60C, UK PLG

ACCESSORIES	DESCRIPTION
MXK-F108-PSUMOD-DC	ROHS, MXK-F108 PSU MODULE, 48VDC
MXK-F108-PSUMOD-AC-NA	ROHS, MXK-F108 PSU MODULE, 100-240VAC W/NA PLUG
MXK-F108-PSUMOD-AC-EU	ROHS, MXK-F108 PSU MODULE, 100-240VAC W/EU PLUG
MXK-F108-PSUMOD-AC-UK	ROHS, MXK-F108 PSU MODULE, 100-240VAC W/UK PLUG
MXK-F108-PSUMOD-BLANK	ROHS, MXK-F108 PSU BLANK
MXK-F108-FAN-ASSEMBLY	ROHS, MXK-F108 FAN SET ASSEMBLY

RELATED PRODUCTS - TRANSCEIVERS	DESCRIPTION
SFP-GE-1310TX-1490RX-20KM-SLC	SFP GE (1000 MBPS) TX 1310 NM RX 1490 NM UP TO 20KM W/SIMPLEX LC CONNECTOR IND TEMP
SFP-GE-1490TX-1310RX-20KM-SLC	SFP GE (1000 MBPS) TX 1490 NM RX 1310 NM UP TO 20KM W/ SIMPLEX LC CONNECTOR IND TEMP
SFP-GE-LX-1310-DLC-E	SFP GE LX (1000MBPS) TX 1310 RX 1310 NM TO 10KM W/ DUPLEX LC CONN, ITEMP, CSFP LINE CARD COMPATIBLE
MXK-10GE-SFP+-SR	SFP+ SHORT REACH (300M) , MULTI MODE, 850NM, DUPLEX LC/UPC, SUPPORTING 10GBPS ETHERNET; I-TEMP
MXK-10GE-SFP+-20KM-1310	SFP+ LONG REACH (20KM), SINGLE MODE, 1310NM, DUPLEX LC/UPC, SUPPORTING 10GBPS ETHERNET; I-TEMP