DATA SHEET
MXK-LC-NGPS16
(Prelim V1.0)

Features

- ITU-T G.987 and G.9807 compliant
- 16-port, 2-slot high port density line card
- Industrial temperature hardened
- 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

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.

Introducing the newest GPON technology to MXK-F™ platform: MXK-LC-NGPS16 line card. The next generation GPON line card provides 16 OLT ports in compliance with ITU-T G.987 and ITU-T G.9807 standards. MXK-LC-NGPS16, in a 2-slot card design, can support symmetrical (10Gbps DS/10Gbps US) and asymmetrical (10/2.5) bandwidth. MXK-LC-NGPS16 can support up to 128 OLT ports in one MXK-F1421 chassis. With 256 splits per PON, one MXK-F1421 chassis fully equipped with MXK-LC-NGPS16 can connect with up to 32K next generation ONTs. MXK-LC-NGPS16 can also support either of two modes,

XGPON/NGPON2 (10/2.5) or XGSPON/NGPON2 (10/10), to provide different bandwidth and service offerings.

Next generation GPON provides one of the most cost-effective ways by utilizing new or leveraging existing ODN to offer much higher bandwidth to business and homes, or a node. With the co-existence of standard GPON (ITU-T G.984-2.5/1.25) on the same ODN, the service provider can use this line card to significantly increase the bandwidth while maintaining the right balance between capital investment and higher bandwidth and service offerings.

With this line card added to MXK-F™ platform, service providers can further take advantages of MXK-F™ platform and fully utilize their ODN networks to deliver much higher bandwidth with 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; 188W nominal, 244W (833 BTU) max equipped with 16 XFP transceivers at 3.5W each

INTERFACES

- Subscriber Line Interfaces: (16) GPON

PROTOCOL SUPPORT

- ITU-T G.987, G.9807
- Bridging 802.1D
- VLAN 802.1Q with 802.1p
- IGMP
- IGMP Snooping with Proxy reporting
- Broadcast Storm Protection
- Bridge Loop Protection
- Transparent L2/L3 VPN for business services

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-NGPS16	ROHS, MXK-F, 2U/14U (16) 10/10 XSGPON/NGPON2 PORT LC, 2 SLOT (REQ XFP XCVRS)
XCVR-XGS-XFP-OLT-N2-CA	XGSPON 10/10G OLT CLASS N2 XFP, 1577/1270NM SINGLE FIBER, DIGITAL RSSI, ROHS, C-TEMP