

Overview

DZS' MXK intelligent terabit access concentrator reflects a clean-sheet approach to a truly scalable multi-service architecture, designed to meet the rapidly evolving demands on access networks. MXK platforms offer unmatched bandwidth with non-blocking capacity of up to 3,600 100Mbps GPON subscribers or 360 1G Active Ethernet subscribers per chassis while leveraging DZS' well-proven SLMS access operating system for sophisticated service intelligence and ease of management.

MXK uplink cards enable operators to offer superior high-bandwidth services in a variety of network designs by offering a wide range of available service types and features, and all models support both copper and fiber SFPs. The MXK-UPLINK-6X1GE-CLK supports 6 X 1G Ethernet ports with E1/T1/BITS timing inputs.

Additionally, MXK uplink cards provide full card and network redundancy by supporting an active card and backup standby in the same chassis. If a card or network failover occurs, the standby card will take over instantly – even without dropping any calls. And for additional network resiliency, these cards support both cross-card and intra-link aggregation, as well as the EAPS ring protocol.

Of course as in all MXK portfolio, comprehensive, intuitive management is provided via CLI, WebUI, and ZMS user interface options.



The MXK-UPLINK-6X1GE-CLK requires a minimum software release of MXK 2.4.1.142.

Specifications

FEATURES

- Aggregate 400 Gbps of non-blocking capacity, with 20 Gbps to each line card
- Supports cross-card link aggregation
- Support for carrier-class active/standby redundancy, link aggregation, point-to-point, and ring configuration on all ports
- Copper and fiber based SFP
- Full range of management options including SNMP, CLI, WebUI, and integration into DZS's ZMS Element Management System

POWER

- 21-watts Nominal, 41-watts Maximum
- Nominal = card powered-up and idle; Maximum = card will all SFPs connected and passing traffic

INTERFACES

- 6 SFP-Based GigE Ports Supporting Copper or Fiber SFPs
- RJ-48 E1/T1/BITS

STANDARDS SUPPORT

- Bridging 802.1D
- VLAN 802.1Q with 802.1p
- Multicast IGMP v2 and v3 (snooping, proxy)
- ITU G.984.1 – 984.4 OMCI
- IEEE 802.3ah
- IEEE 802.3ad LACP
- DHCP Relay
- 802.1ag

REGULATORY COMPLIANCE

- Safety: UL 60950-1; CSA 60950-1; EN 60950-1
- Emissions: EN 55022A*; PART 15A (FCC)
- Immunity: GR-1089-CORE, Issue 3*; SR-3580, Issue 1*; ATT-TP-76200, Issue 14*; VZ.TPR.9205, Issue 3*
- Environmental: GR-63-CORE, Issue 3*

*In process

MANAGEMENT

- ZMS management system via SNMP v2c for GUI and CORBA IDL machine interface
- Terminal for Command Line Interface (CLI)
- Built-in GUI-based Management

OPERATING REQUIREMENTS

- Ambient operating temperature: -40° C to +65° C
- Relative operating humidity: up to 85% (non-condensing)
- GR-487 compliant
- Designed for outside plant deployment

Ordering Information

Uplink Card	
MODEL	DESCRIPTION
MXK-UPLINK-6X1GE-CLK	MXK uplink with 6 X 1G Ethernet ports with E1/T1/BITS synchronization inputs and support for cross-card link aggregation

Accessories