Enabling the hyper-connected world

V-MC-TOP
V-MC-AETG2-TOP

Velocity VX/MXK-F OLT Management Cards

Support of OLT Management Functions in VX/MXK-F OLT Chassis

Features & Benefits

- Full range of Management options – CLI, SNMP, and integration with ZMS
- Support for carrier-class active/standby redundancy
- Support for both single and redundant configurations
- Ports for Local Craft, Management, Time-of-Day (TOD), and Pulse-per-Second (PPS)
- E1/T1/BITS timing inputs
- Synchronous Ethernet
- 1588v2 Precision Timing Protocol support
- Industrial temperature

The V-MC-TOP and V-MC-AETG2-TOP management cards are the key to the operation of the high-capacity VX/MXK-F OLT platform. The V-MC-TOP supports the highly scalable V14/V-CHASSIS-V14 and V16/V-CHASSIS-V16. The V-MC-AETG2-TOP supports the compact V2/V-CHASSIS-V2. Both cards act as the controller for the VX/MXF-F chassis with all database functions residing on the management card.

The VX/MXK-F OLT Management Cards are typically used in a redundant pair configuration by default designated as Active and Standby. In a redundant configuration, when an active management link goes down the standby link takes over and the state of both cards remains. The V-MC-AETG2-TOP cards include two 10GE uplinks and can provide Facility protection in redundant configuration.

In addition to its management duties and user interface support ports, the V-MC-TOP and V-MC-AETG2-TOP management cards provide synchronization connection points for Synchronous Ethernet, 1588v2, and E1/T1/BITS timing inputs.

Carrier Grade Reliability and Ease of Use

The V-MC-TOP and V-MC-AETG2-TOP Management Cards offer a fully distributed database. The boot and upgrade times are exceedingly low to reduce enterprise and service provider OPEX. Since the forwarding plane control does not reside on the Management Card, reboots and upgrade events for VX/MXK-F OLTs are much simpler ensuring an optimal level of both reliability and availability – particularly when optionally equipped with redundant management line cards.

Features & Benefits

+ Management Card supports redundant configuration: Active and Standby
+ Support 2 GigE ports (RJ45) – Local Craft, Management port
+ Support 1 port (RJ45) for T1/E1 BITS input
+ Support 1 port (RJ45) for TOD
+ Support 1 port for PPS
+ Support two 10 GigE SFP/SFP+ optical ports for Uplink (V-MC-AETG2-TOP only)
+ Support configuration database, boot code, system log files
+ SNMP V2/V3
+ ZMS management interface

V-MC-TOP
V-MC-AETG2-TOP
Product Specifications

V-MC-AETG2-TOP Interfaces

- Four 1GigE, RJ45
- One PPS

V-MC-AETG2-TOP Interfaces

- Four 1GigE, RJ45
- One PPS
- Two 10GigE Ethernet SFP/SFP+ ports

Management Interfaces

- Command Line Interface (CLI)
- ZMS management interface

Protocol Support

- File Transfer Protocol (FTP) RFC 959
- Secure File Transfer Protocol (SFTP) RFC 2228
- SNMPv2c,v3, RFC 3411-RFC 3418
- HTTP / HTTPS
- Telnet
- SSH

Regulatory Compliance

- Safety
  - EN 62368-1
  - UL 62368-1
- EMC Emissions / Immunity
  - FCC Part 15 Class A
  - AEN 55022 Class A
  - CES-003 Class A
  - EN 300 386

V-MC-TOP
V-MC-AETG2-TOP

Product Specifications

PHYSICAL	
Specification	**Description**
Dimensions (H x W x D)	188mm x 22mm x 212mm
Operating temperature	-40~149°F (-40~ +65°C)
Storage temperature	-40~158°F (-40~+70°C)
Operating humidity	5 to 85 % (non-condensing)
ENVIRONMENTAL	
Specification	**Description**
Altitude	-200ft to 16,500ft (-60m to 5,000m)
V-MC-TOP Power	16W nominal
V-MC-AETG2-TOP Power	23W nominal
Maximum Power	126W (16 SFP transceivers at 1.5W each)

Ordering Information

Base DC Unit	Description
V-MC-TOP	MXK-F 14U MGMNT CARD WITH E1/T1/BITS/TOP SYNCH
V-MC-AETG2-TOP	MXK-F 2U MGMNT CARD W/2X10G ETH, SFP+/SFP BASED, E1/T1/BITS/TOP SYNCH

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