Reimagine Your Edge

V-MC-MGMT-NC

Velocity VX Series OLT Management Card

Efficient OLT Chassis Management Functions in VX series OLTs

Features & Benefits

+ Chassis wide control or all cards with single IP Address for Management
+ Support for carrier-class active/standby redundancy
+ Industrial temperature

The V-MC-MGMT-NC management card provides OLT chassis management functions and efficient management access to all the OLT line cards (or OLT system-on-a-card) and switch fabric cards (or Aggregation switch system-on-a-card). The Management Card is linked to all the Line Cards and Fabric Cards via the backplane. It is also connected to the FAN Tray and Power Units via the backplane to monitor OLT system power consumption and control fan speed.

The MC provides a copper port (i.e. RJ45) for out-of-band (OOB) management access and an RS-232 console port. In addition, it includes an SFP port for remote management access or management access to subtended chassis. The MC also supports in-band management through the Fabric Card or Line Card uplink ports. The VX series OLT Management Cards can operate either in stand-alone mode or in a redundant pair configuration by default designated as Active and Standby.

Distributed Switching Architecture for Maximum Scalability

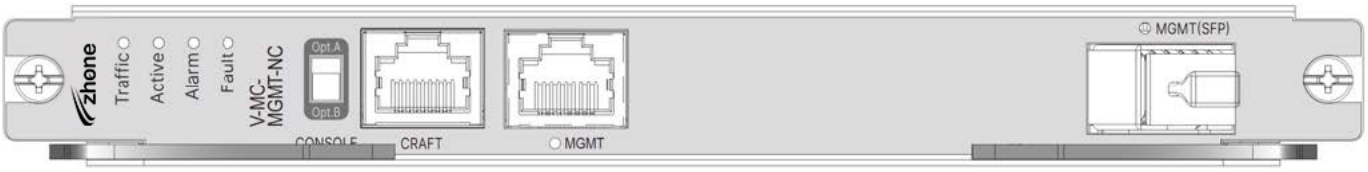
The V-MC-MGMT-NC is designed to enable Disaggregated or Distributed Architecture that can scale up over longer time horizons demanded by fiber network operators around the world. In the Zhone Velocity OLT systems Line or Service cards can function as an OLT “system-on-a-card” and the switch fabric cards or network facing cards can also function as stand-alone Aggregation switches. Each service card comes with a high-capacity local switching function in addition to the Fabric Cards where traffic can be further aggregated and switched. The platform also provides the option of using the uplink interfaces in the Zhone XCelerateTM service cards for maximum flexibility, scalability, and non-blocking aggregation. on by simply adding OLT cards regardless of the backplane capacity and central switch fabric capacity.

Disaggregation and SDN Support

The unique XCelerateTM architecture allows the VX OLT Line Card and Fabric Card software to be disaggregated and enables SDN Control. Any of the equipped line cards and fabric cards can be managed via a standards compliant Netconf/Yang interface. On-board switches in Line Cards provide traffic aggregation, QoS, and uplink interfaces for non-blocking performance. With a fully distributed database, both boot and upgrade times are exceedingly low for better customer experience. System upgrades are much simpler ensuring maximum reliability and availability. The V-MC-MGMT-NC provides efficient chassis wide access to all the Line Cards and Fabric Cards using a single IP address for management.

The MC Faceplate Interfaces

+ Console (craft) serial port: RS-232 port via an RJ-45 connector for local craft access.
+ Serial port wiring selection: A two position switch which changes the wiring mode for the craft console port. Position “A” is the more common industry standard mode.
+ Management ethernet Copper port: Ethernet port via an RJ-45 connector for management access to the V6.
+ Management ethernet Fiber port: Ethernet port via an SFP connector for management access to the V6.
+ Status LEDs: Several LEDs to communicate high level status



V-MC-MGMT-NC
Product Specifications

Interfaces

- 1 RJ45 for Local Craft Access
- 1 RJ45 for GigE Management Access
- 1 SFP for GigE Management Access

Protocol Support

- File Transfer Protocol (FTP) RFC 959
- Secure File Transfer Protocol (SFTP) RFC 2228
- HTTP / HTTPS
- Telnet
- SSH

Regulatory Compliance

- Safety
  - EN 62368-1
  - UL 62368-1
  - CAN/CSA C22.2 No. 62638-1
- EMC Emissions / Immunity
  - FCC Part 15 Class A
  - EN 55022 Class A
  - CES-003 Class A
  - EN 300 38

V-MC-MGMT-NC

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)
Power Requirements	12W nominal at 25C
Maximum Power	17W at 65C (1 SFP transceiver)

Ordering Information

Base DC Unit	Description
V-MC-MGMT-NC	VELOCITY OLT MANAGEMENT CARD, WITH CRAFT AND MGMT INTERFACES, WITH 1 SFP, NO BITS OR PTP TIMING
V-CHASSIS-V6	ROHS, VELOCITY 6U, 19” CHASSIS (COMMON CARDS W/ V14/V16) 2 NETWORK-FACING, 6 ACCESS SERVICE SLOTS

Zhone Technologies, Inc

Toll Free: 877.946.6320 | info@zhone.com