



V-FC-AEHG2-AETG4

A new generation Fabric card with 1.28Tbps Switching capacity ideal for Aggregation of High Bandwidth, High Value Services delivered with XCeleRate™ line cards.

Features & Benefits

- + Cost-effective aggregation with robust QoS
- + High speed Uplinks – 2x100G and 4x10G
- + Intra-card and cross-card link aggregation for maximum capacity and reliability
- + Support for carrier-class active/standby redundancy
- + Point-to-point, and ring configuration

The V-FC-AEHG2-ATG4 is a core switching module for the highcapacity, scalable, Velocity Vx Series as well as MXK-F family of chassis-based OLT systems. The Fabric Card provides efficient, reliable, and high-capacity aggregation and uplinks for all fiber access services. With two 100G QSFP28 and four 10G SFP+ interfaces, the V-FC-AEHG2-ATG4 is the latest addition to our suite of Fabric cards. It provides QoS for service flows to and from the upstream network for all traffic types.

Two Fabric Cards in any of the Vx Series and MXK-F14xx Chassis provide full card and network redundancy by supporting an active and standby configuration with automatic protection switching. Both cards can also be active for maximum uplink capacity and support cross-card link aggregation. These cards can be used to interconnect multiple sites in a ring configuration for network resiliency using EAPS (RFC 3619) protocol. Any of the uplink interfaces in this card can also be used for subtending other devices (e.g. secondary site OLTs).



V-FC-AEHG2-ATG4:
Front and Side View

Carrier Grade Switch Capacity

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.

The V-FC-AEHG2-ATG4 aggregation switch delivers 2x100Gbps uplinks from each card with a combined 400Gbps of uplink capacity for maximum throughput for services delivered with our XCelebrate™ line cards.

Key Service Attributes

- + Fabric cards support redundant pair; Active and Standby
- + Each card with Four 10GigE ports with SFP+ for upstream network inter-connection
- + Each card with Two 100GigE port with QSFP28 for upstream network inter-connection
- + Cross-card and intra-card Link Aggregation
- + Support of EAPS ring protocol to interconnect OLTs reliably
- + Transparent L2/L3 VPN for business services
- + Traffic Class Mapping (802.1p)
- + QoS with traffic rate limiting, policing, and scheduling

V-FC-AEHG2-AETG4 Product Specifications

Interfaces

- Four 10GigE SFP+ ports
- Two 100GigE QSFP28 ports

Protocol Support

- Port VLAN (802.1D)
- Tagged VLAN (802.1q)
- Rapid Spanning Tree (802.1w)
- MSTP (802.1s)
- LACP (802.3ad)
- IGMP v2/v3
- IGMP Snooping with Proxy reporting
- Broadcast Storm Protection
- Bridge Loop Protection
- Transparent L2/L3 VPN for business services
- L2 ACL (Allow/Deny)
- Radius
- RFC 3619 (EAPS)
- 2 Rate 3 Color Policing; both Color Blind and Color Aware
- Traffic Rate Limiting
- Traffic Queuing (8 Priority levels)
- DSCP to COS Marking
- Strict Priority Scheduling
- Traffic Policing
- Traffic Class Mapping (802.1p)
- 802.1 ag

Regulatory Compliance

- Safety
 - EN 62368-1
 - UL 62368-1
 - CAN/CSA C22.2 No. 62638-1
- EMC Emissions / Immunity
 - FCC Part 15 Class A
 - AEN 55022 Class A
 - CES-003 Class A
 - EN 300 386

V-FC-AEHG2-AETG4

Product Specifications

PHYSICAL

Specification	Description
Dimensions (H x W x D)	378mm x 22mm x 212mm
Operating temperature	32~149°F (0~65°C)
Operating humidity	5 to 85 % (non-condensing)

ENVIRONMENTAL

Specification	Description
Altitude	-200ft to 16,500ft (-60m to 5,000m)
Power Requirements	73W nominal
Maximum Power	100.2W maximum (4 SFP+ and 2 QSFP28 transceivers at 3W and 5W each)

Ordering Information

Base DC Unit	Description
V-FC-AEHG2-ATG4	MXK 14U FABRIC CARD W/ 2X100G AND 4X10G ETHERNET, QSFP28 TRANSCEIVER BASED
XCVR-AEHG-QSFP28-100M-CA	QSFP28 100G MMF 850 100M OM4 (70M OM3) OPTICAL XCVR, 0~70 DEG C C-TEMP
XCVR-AEHG-QSFP28-10KM-CA	QSFP28 100G SMF 1310 10KM OPTICAL XCVR, 0~70 DEG C-TEMP
XCVR-10GE-SFP+-SR	SFP+ SHORT REACH (300M), MMF, 850NM, DUPLEX LC/UPC, 10GE, I-TEMP



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