

V-FC-AEFG2-AETG8 Fabric Line Cards

Aggregation switch with 720Gbps capacity and 2x40Gbps and 8x10Gbps Uplinks



Features & Benefits

- + Supports cross-card link aggregation
- + Support for carrier-class active/standby redundancy, link aggregation, point-to-point, and ring configuration on all ports
- + Supports fiber based SFP/SFP+/QSFP+ Uplinks
- + Industrial temperature



The V-FC-AEFG2-AETG8 is a core switching module for the high-capacity, highly capable Velocity platforms. The Fabric Line Card provides efficient, reliable, and highly available data path aggregation solution for flows destined for the Cloud. The V-FC-AETG8 Fabric Card provides eight multi-purpose active Ethernet uplink ports that can support either 1G SFP or 10G SFP+ fiber transceivers and can be operated in either uplink or intra-link modes. The V-FC-AEFG2-AETG8 Fabric Card also provides two 40G QSFP+ active Ethernet uplink ports.

The V-FC-AEFG2-AETG8 provides 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. For additional network resiliency, these cards support both cross-card and intra-link aggregation, as well as the EAPS ring protocol.

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-AEFG2-AETG8 aggregation switch delivers 40 Gbps to each access card slot for the chassis. The fabric card can support network redundancy by provisioning an active card and backup standby in the same chassis.

Key Service Attributes

- + Fabric cards support of redundant pair; Active and Standby
- + Eight 10GigE/1GigE ports with SFP/SFP+
- + Two 40G QSFP+ active Ethernet uplink ports.
- + Cross-card and intra-link aggregation

V-FC-AEFG2-AETG8 Fabric Line Card Product Specifications

Interfaces

- Eight 1GigE, RJ45
- Two 40GigE QSFP+

Protocol Support

- Port VLAN (802.1D)
- Tagged VLAN (802.1q)
- Spanning Tree (802.1D)
- 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)
- COS to DSCP Marking
- Strict Priority/WFQ (Scheduling)
- Traffic Policing
- Traffic Class Mapping (802.1p)
- 802.1 ag

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

MXK-FC-AEFG2-AETG8

Product Specifications

PHYSICAL	
Specification	Description
Dimensions (H x W x D)	378mm x 36mm 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	73W nominal
Maximum Power	105W maximum (8 SFP+ and 2 QSFP+ transceivers at 3.0W and 4.0W each)

Ordering Information

Base DC Unit	Description
V-FC-AEFG2-AETG8	VELOCITY, 14U FABRIC CARD W/2X40G AND 8X10G ETHERNET, QSFP+/SFP+ BASED