PRODUCT DATASHEET

FE-12s plug-in card



DESCRIPTION

The Calix C7 FE-12s plug-in card provides 12 Fast Ethernet (10/100) interfaces. Each interface supports Layer 2 switching, Transparent LAN Services (TLS), 802.1Q VLAN tagging, MultiPoint-to-MultiPoint VLANs, VLAN stacking, Ethernet Packet Rings (EPR), Virtual Concatenation, and rate policing in 1 Mbps increments.

The Calix C7 FE-12s can be plugged into any of the 20 universal slots within the Calix C7 shelf. Physical access to each 10/100 interface is provided through standard RJ-45 connectors mounted on the back of the shelf.

KEY ATTRIBUTES

VIRTUAL CONCATENATION: The Calix C7 supports standard (ITU G.707-2000) Virtual Concatenation, enabling virtual concatenation of non-contiguous STS-1s (STS-1 to STS-21) in STS-1 increments - versus traditional SONET ADMs that use inefficient standard concatenated STS-1, STS-3c, or STS-12c SONET payloads.

ETHERNET PACKET RING: Ethernet Packet Rings provide a shared pool of bandwidth to all Ethernet ports, emulating a large LAN environment. EPRs are provisionable in STS-1 increments (STS-1 to STS-21) and support multiple point-to-point and multipoint-to-multipoint VLANS.

VLAN TAGGING AND STACKING: The FE-12s supports 802.1Q VLAN tagging to differentiate customers from one another. VLAN stacking (VLAN double tagging) is supported for customers with pre-tagged 802.1Q frames. Up to 4093 VLANS are supported per XLAN.

RATE-TUNABLE INTERFACES: Each Ethernet interface on the FE-12s is rate-tunable in 1 Mbps increments (ingress and egress) using standards-based IEEE flow-control 802.3x PAUSE frames.

INTERFACE DENSITY: The 14-inch high Calix C7 shelf can be equipped with up to 20 FE-12s cards for a total of 240 FE interfaces per shelf. Up to five shelves cna be deployed in a single node configuration to deliver 1,200 FE interfaces from a single 7-foot bay.

PLUG AND PLAY: New FE-12s cards can be added to the system with ease and minimum user intervention, allowing quick and easy turn up of new services. The FE-12s interoperates seamlessly with the GE-4s card.



SPECIFICATIONS

FE-12s plug-in card

ORDERING INFORMATION

Calix Part No. 100-00054

PORTS

12 Fast Ethernet (10/100) interfaces per card20 cards per shelf240 FE interfaces per shelf1,200 FE interfaces per 7-foot rack (5 shelves)

STATUS INDICATORS

ACTIVE: Green – Indicates card is active and operating properly FAIL: Red – Indicates card has failed

POWER DISSIPATION

35 Watts per card

PHYSICAL DIMENSIONS

Size: 9.3 inches (height) x 0.7 inches (width) x 9.0 inches (depth)

OPERATING ENVIRONMENT

Temperature: -40 C to +65 C (-40 F to +149 F)

Humidity: 5 to 90% non-condensing

Altitude: to 13,125 feet

STORAGE TEMPERATURE

-40 C to +70 C (-40 F to +158 F)

NEBS LEVEL 3 COMPLIANCE

Telcordia GR-63-CORE, Network
Equipment-Building System
(NEBS) Requirements.
Telcordia GR-1089-CORE,
Electromagnetic Compatibility and
Electrical Safety.

SAFETY

NTRL-UL-60950-1

EMI/RFI

FCC Part 15 Class A

STANDARDS SUPPORT

IEEE 802.3, Ethernet (CSMA/CD)
IEEE 802.1Q, VLAN
IEEE 802.1D, MAC Bridging
ITU-G.707 Virtual Concatenation



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