AMP Plug-In Card

D E S C R I P T I O N

The Calix C7 Administration and Maintenance Processor (AMP) hosts system administrative software and provides the access point for craft and element management systems. It also contains test access and contact closure alarms/controls. The AMP plugs into the common management slot of the Calix C7 shelf. Physical access to the AMP plug-in card is via faceplate connectors and an alarm interface module that mounts on the back of the Calix C7 shelf.

K E Y   A T T R I B U T E S

PHYSICAL INTERFACES: Support for a wide variety of physical interfaces enabling temporary or permanent management access to the system.

- Serial (DB9) and 10/100 BaseT (RJ-45)

- Summary alarm LEDs

- One 10/100 BaseT Ethernet interface

- One RS232C interface

- Eight environmental alarm inputs

- Two control outputs

- Metallic test and access functions

- Three audible and three visual system alarm outputs

- One RS422 serial port for TMOS alarm telemetry

- ACO - Alarm cut off

OAM&P: The Calix C7 AMP supports the following interface protocols:

- TL1 agent

- HTTP server with GUI integrated Management Software (iMS)

ACCESS FROM ANY NODE: The AMP enables management system access to any Calix C7 node within the network via 10/100 BaseT Ethernet or RS-232 interfaces, or alternatively via an ATM PVC connection through the ATM network.

INTEGRATED MANAGEMENT SOFTWARE: Every AMP card has an embedded web server supporting a graphical user interface (GUI) for craft access that eases even the most complex data provisioning functions. The iMS can manage a complete network of interconnected nodes (containing up to 50 shelves) from a single point, and includes:

- Full FCAPS capabilities (fault, configuration, accounting, performance, and security)

- Point and click end-to-end provisioning

- A turn up wizard that assists in node identification, grouping, location and provisioning

- A graphical display of network topology

Calix.

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MANAGEMENT PROTOCOLS

TL1
HTTP for the Calix integrated Management Software (iMS)

MANAGEMENT INTERFACES FOR CRAFT OR OS ACCESS

10/100BaseT Ethernet - RJ-45 on face-plate, wire-wrap on back.
RS232 Serial Interface - DB9 on face-plate, wire-wrap on back (management via TL1).
IP Addresses - One permanently tied to rear Ethernet port, one DHCP server for connecting to local craft web browser.

CALIX C7 OFFICE ALARM TELEMETRY

Audible: Minor, Major, Critical
Visual: Minor, Major, Critical
Two control outputs
Eight environmental alarm inputs
Remote ACO

EXTERNAL TEST HEADS

Test bus for connection to external test heads

STATUS INDICATORS

FAIL: Red - Card has failed
ACTIVE: Green - Unit is in active mode of operation
CRITICAL: Red - Indicates critical alarm in the Calix C7 node
MAJOR: Red - Indicates major alarm in the Calix C7 node
MINOR: Yellow - Indicates minor alarm in the Calix C7 node
ACO: Green - Indicates ACO has been activated
LINK: Yellow - Indicates physical Ethernet connection
DATA: Green flashing - Ethernet data is transmitting/receiving (flashing LED) through the physical Ethernet connection on the faceplate

POWER DISSIPATION

16 Watts

PHYSICAL DIMENSIONS

Size: 9.3 inches H x 0.7 inches W x 9.0 inches D

OPERATING ENVIRONMENT

Temperature: -40°C to +70°C
Humidity: 5 to 90% non-condensing
Altitude: to 13,125 feet

STORAGE TEMPERATURE

-40°C to +70°C

NEBS LEVEL 3 COMPLIANCE

Telcordia GR-63-CORE, Network Equipment-Building System (NEBS) Requirements, Issue 1, October 1995.
Telcordia GR-1089-CORE, Electromagnetic Compatibility and Electrical Safety, Issue 2, December 1997 with revision 1, February 1999.

SAFETY

NTRL-UL 1950

EMI/RFI

FCC Part 15 Class A

STANDARDS SUPPORT

GR-818-CORE, Network Maintenance: Access and Testing - Generic Test Architecture, Issue 1, December 1995.