

AIMR-0408

IP-MPLS Access Router

Feature Summary

- ◆ Compact 1RU , 19" standard rack mountable
- ◆ Hot-swappable AC/DC power supplies with 1+1 redundancy
- ◆ Supports variety of physical interfaces such as 1GE, 10GE and E1 interfaces**
- ◆ Hot swappable fan module with redundant fans
- ◆ Supports sub-50ms protection by means of 1:1 LSP/PW, LAG, SNCP, ERPS, dual-homing, VRRP
- ◆ Support 100 Gbps full-duplex switching capacity
- ◆ Supports NTP, SyncE and IEEE 1588v2 clock synchronization
- ◆ Supports MPLS Processing Capabilities using standard IP MPLS and SR MPLS Technology
- ◆ Supports powerful routing and IP Multicasting capabilities
- ◆ Support IPv4 /IPv6 static and dynamic routing
- ◆ Supports full carrier-ethernet functionalities including BFD and Ethernet OAM
- ◆ Compliant with TEC-GR 48050-2024.

Layer 2 and Layer 3 features

- ◆ Supports Carrier-ethernet functionalities such as L2/L3 VPN, EPL, EVPL, VLL, E-LAN and VPLS, E-LINE, E-TREE, CES emulation, L2 MAC address Learning, Jumbo Frames, VLAN per IEEE 802.1Q and IEEE 802.1ad, Port Mirroring, DHCP, STP, RSTP, MSTP, ERPS/ ITU T G.8032 v2, Open ERPS, LLDP, LLC, Flow Control, Link Aggregation & LACP, Egress Buffering, PWE3, Ethernet OAM and QOS
- ◆ MPLS (MPLS-TE/RSVP), LDP, MPLS Class of service, Segmented routing (SR-TE) and PCEP, R-LFA, Ti-LFA and BFD
- ◆ Static routing (IPv4 and IPv6) and L3 Protocols such as OSPF, OSPFv2, OSPFv3, eBGP, IBGP, ISIS, ECMP
- ◆ Provides network reliability by IP FRR, TE FRR, PW Redundancy, VPN FRR,VRRP
- ◆ IP multicast services based on IGMP v2/3, PIM SM/SSM

Security

- ◆ RADIUS, GTSM, DoS attack prevention, MAC address limitation and aging, MAC address spoofing prevention, Traffic Filtering, TACACS+, CAC

The Alphion AIMR-0408 is a high capacity, high density rack mount Metro Access Aggregation device switch for 3G/4G/5G mobile xHaul and broadband network.

Applications

The Alphion AIMR-0408 provide stable, reliable, secure high performance L2/L3 switching services in order to meet the requirements of an access network. It adopts MPLS technology and comply with the latest MPLS standards defined by IETF, MEF 3/6/8, ITU-T and other international standards.

Standards

Alphion AIMR-0408 is compliant with the following standards:

IEEE Protocols:

802.1p, 802.1Q, 802.1ad, 802.3ad, 802.3ah, 802.1ag, 802.3x, 802.3z, 802.3ab, 802.3ac, 802.3ae, 1588v2.

IETF RFCs:

1112,1850,2236,2370,2439,2457,2474,2475, 2544, 2547, 2554, 2597, 2598, 2740, 3101, 3107, 3140, 3246,4364,4448,4618,4761,4762,4842, 6020,6241,7011,7012.

ITU-T Specifications:

Y.1731, G.8113.1, G.8113.2, Y.1564.

Management

Alphion AIMR-0408 provides ease of management via SNMP, NetConf/YANG. It also supports Zero-touch provisioning.

SPECIFICATIONS

Ethernet I/O Interfaces

1GE/10GE: 16 x SFP/SFP+ ports
E1: 16 ports**

Transceivers Supported

SFP+: 10GBASE-SR, 10GBASE-LR, 10GBASE-ER and 10GBASE-ZR
SFP: 1000BASE-SX, 1000BASE-LX, 1000BASE-EX and 1000BASE-ZX

Timing Interfaces

CLK1/2

Management Interfaces

Out-of-band, Console

Performance

Switching: 100 Gbps Ethernet switching
Capacity

Scalability

No. of Routes IPv4 – 10K, IPv6 – 2k
Virtual Routing 32
Functions (VRF)
Routes-Per-VRF 5K
No. of. Route 1K
Entries (OSPF)
Forwarding DB 32K
(MAC)

Power

AC Option: Hot swappable Dual-AC, 1+1 redundant PSU
AC Input: 100 ~ 240V, 50-60Hz
DC Option: Dual-DC, 1+1 redundant Inputs
DC Input: -48V +/-20%
Consumption: 90 W (Max.)

Physical

Operating Temp: -5°C to 55°C
Operating (RH): 5% to 95% (RH), Non-condensing
Dimensions: 442 mm(W) X 235 mm(D) X 44.45 mm(H)
Weight: 4.5 Kg(approx.)
Cooling: Hot swappable fan tray with 3+1 redundant fans

Regulatory Compliance

EMC: ETSI EN 300 386, EN 55022, EN55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, CISPR 22, CISPR 24,
Safety: IEC/EN 60825-1, IEC/EN 60950-1, IEC/EN 62368-1

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