Alphion

Product Brief

AMVG-1416

PON MDU Voice Gateway Equipment (16 POTS)

Feature Summary

- 1U metal enclosure
- Supports 100-240V AC power supply input
- Single EPON (IEEE 802.3ah)/GPON (ITU-T G.984) standards compliant uplink port (Class B+ PON).
- Sixteen RJ11 FXS Voice/Fax ports
- Supports rich set of standards compliant voice protocols such SIP, SDP, RTP, RTCP, TEL URI and RPORT
- Supports rich set of voice codec, processing and features
- Supports standards compliant FAX features
- 1 RJ45 Console port.
- 1 RJ45 Management port

Applications

The AMVG-1416 is a high-performance, multi-purpose PON MDU voice access gateways, designed for small and medium-sized enterprises. The AMVG-1416 is designed to meet the needs of operators or virtual operators and enterprise units. The AMVG-1416 provides users with rich set of voice and fax services, This product is to be used with GPON/EPON OLT equipment to support voice services that require quality network connectivity.

The AMVG-1416 includes a variety of interface types to support the connection of analog phones and fax machines. The product adopts the standard SIP protocol and complies with the TISPAN/IMS standard. It is perfectly compatible with IP PBX, SIP server and carrier IMS/NGN Soft-switch platform, providing flexible and diverse access modes for large-scale deployment of carrier projects and enterprise converged communications.

Device Management

The AMVG-1416 is easily managed via WebUI, which provides configuration of the different voice and fax services, event & fault management, performance monitoring and Syslog. Basic remote management via OMCI for firmware upgrade and Ethernet OAM is also supported.

SPECIFICATIONS

PON Uplink interface

Standards	Fully IEEE 802.3ah & ITU-T G.984 compliant
Line rate	Downstream: EPON -1Gbps, GPON - 2.488 Gbps Upstream: EPON - 1Gbps, GPON - 1.244 Gbps
Connector	SC/APC, single-mode-fiber
Wavelength	Transmit: 1310nm; Receive: 1490nm
Tx Output pwr	+0.5 to +5.0 dBm launch power
Rx Sensitivity	-27dBm
Rx Overload	-8 dBm
Activation	Activation with automatic discovered MAC and LOID

Management LAN interface

Type	1 x 10/100/1000 Base-T interface
Connector	RJ-45 connector

Serial Console interface

Connector	RJ-45 connector

Voice interface

Type	16x FXS interface
Connector	RJ-11 connectors

Power

AC Supply	Input: 100-240VAC, 50/60Hz
Control	Power ON/OFF Switch
Power	25W

LEDs

Power, System and Mgmt LAN.

Physical

Temperature	0°C to 50 °C
Humidity (RH)	<= 95% relative humidity
Dimension	440 (W) mm x 210 (D) mm x 43.5 (H) mm

Device Management

Local	Voice/Fax service configurations via WebUI.
Remote	Firmware upgrade via OMCI

VoIP

Protocols	IMS/NGN SIP、H.248SIP v2.0、RFC3261、SDP、RTP(RFC2833)、RFC3262、3263、3264、3265、3515、2976、3311、RTP/RTCP、RFC2198、1889 、RFC4028, Session Timer、RFC3266 IPv6 in SDP、RFC2806 TEL URI、RFC3581、NAT、rport
Voice Codecs & Processing	Codecs: G.711A, G.711U, G.729, G.723.1,G.722, Echo cancellation: G.168, Tail length 64 milliseconds, Comfortable background sound(CNG), silent compression (VAD), support signaling and media DSCP/TOS mark, Digitmap
Voice Features	Basic Calling: Caller ID display, Call Waiting, Call hold, Call forward 3-Party Conference, Cooperate with IPPBX/IMS to realize: calling number display restriction, unconditional call forward, busy call forward, no answer call forward, finding malicious calls, outgoing restriction, Do not disturb, speed dialing, hotline service, alarm clock, busy Callback, conference call
Fax	T.30 and T.38 Fax

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