

Voice Gateway

For use with Alvarion's BreezeMAX™ and BreezeACCESS® VL systems

Product Highlights

- Optimal provision of voice and broadband data services to the wireless subscriber
- Toll quality voice services with maximum use of bandwidth resources
- Direct control and easy management
- Cost effective

Alvarion's Voice Gateway offers a compelling bandwidth efficient solution, enabling carriers and service providers to offer their subscriber base a variety of bundled services such as VoIP telephony and high speed Internet. The gateway can handle up to 16 VLANs isolating the voice from the data traffic, and enabling the operator to offer different services to different end users behind the unit.

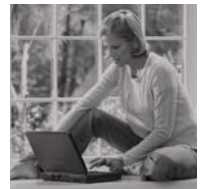
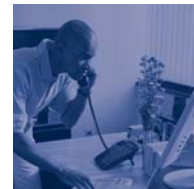
DRAP-enabled: Making a Difference

Alvarion's voice gateway incorporates a unique dynamic resource allocation protocol (DRAP) that enables three outstanding features:

- Auto discovery - automatic recognition and registration with the base station and the remote management system
- Admission control - limits the number of simultaneous calls to a pre-configurable quantity
- Resource allocation - dynamically reserves the exact amount of bandwidth necessary when calls are made - maximizing the efficient use of the air resources

Detailed Feature Summary

- Available in H.323 or SIP standard compliant versions: single phone (one voice and one data connection), or dual phone (two voice and one data connections)
- Advanced VoIP telephony and services: call waiting, 3-party calls, differentiated ringing tones, ringback, busy, alarm and more
- Supports T38 protocol for G3 fax machines
- QoS for real-time services
- Speech codecs: G711, G729ab
- Feature rich: Adaptive jitter buffer, echo cancellation, adjustable speech sampling, silence suppression with comfort noise
- Flexibility & service differentiation:
 - Daisy chaining up to 3 voice gateways
 - Regional settings properties: telephony signals, tones and cadences
- Easy and friendly management, web-based tool and integration into the AlvariSTAR management platform



Front (Single Phone Unit)



Back (Dual Phone Unit)

Specifications

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Telephony and Fax Services

VoIP standard	H323 model: H323v2/4 SIP model: SIP (RFC 3261)
Internal Class 5 services	Call waiting, 3-party call, call hold and call alteration, differentiated ringing tones
External Class 5 services	Activation/deactivation of Class 5 services supported by the IP telephony system
Fax	G3 compliant V.17 14.4 Kbps fax reception and transmission using the T.38 standard (or in-band using G.711 codec)
Calling number identification (CNI)	FSK, DTMF
3rd party initiated pause and rerouting	External rerouting of media stream during speech, e.g. for pre-paid calling card and record announcement
DTMF	In-band or out-band (H323: H.245, H.225/ SIP: RFC 2833, SIP INFO)
Regional settings	Telephony signals, tones and cadences

Security

VLAN	Support IEEE 802.1Q with up to 16 VLAN IDs
Authentication	Per call authentication and registration

Voice Quality

Voice codecs	G.711 Ulaw G.711 Alaw G.729ab
Prioritization	IEEE 802.1p layer-2 prioritization DiffServ layer-3 prioritization
General	Adaptive jitter buffer Echo cancellation Speech sampling rate: 10-60 ms Silence suppression with comfort noise

Configuration and Management

Management options	Internal web server
SNMP agents	SNMP V1, V2 client MIB II (RFC 1213), Private MIB
Plug & Play functionality	DHCP, including support messages option 60, 61, 43
Software upgrade	Using TFTP
Configuration download	Using TFTP

Bridge Functionality

Supported Ethernet Devices	Up to 32 MAC addresses
Unknown address forwarding policy	Forward unknown
Bridge aging time	180 seconds

Mechanical Specifications

Dimensions (W x D x H)	17.6 x 11 x 2.8 cm (6.9x4.3x1.1 inch)
Weight	230 gr. (0.51 lb)

Electrical Specifications

Power input	12 VDC from an external power supply, 100-240 VAC, 50-60 Hz, 2A max.
Power consumption	10.5 W max.

Connectors

Connector	Description	
LAN	Type	10/100Base-TX (RJ-45)
	Cable length	Max 100 m (328 ft).
Phone (1 – 2 in VD-1D2V)	Type	RJ-11
	Number of phones (REN)	Up to 5
	Cable length	Max. 500 m (1640 ft)
WAN	Type	10/100Base-TX (RJ-45)
	Cable length	Max 100 m (328 ft)
12 VDC	Standard DC power jack to external power supply	

Standards Compliance

EMC	Low voltage directive (LVD) 73/23/EEC Electromagnetic compatibility directive (EMC) 89/336/EEG
Safety	IEC 60950 CSA C22.2 No. 950-95/UL 1950 AS/NZS 3260
Emission	EN 55022:1998 Class B EN 61000-3-2:1995 Harmonics; EN 61000-3-3:1995 Flicker; FCC part 15 (1998) Class B AS/NZS 3548 (1995)
Immunity	EN 55024:1998

Environmental Specifications

Operating temperature	0° C to 50° C (32° to 122° Fahrenheit)
Operating humidity	10%-95% RH non condensing



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