



## MAG1000 Series Analog Gateway

### Overview

OpenVox MAG 1000 is a multifunctional analog gateway for seamless connection between IPPBX, fax machines, analog phones and operators. It provides three interfaces of RJ11/RJ45/RJ21, covering almost all the wiring needs of users in all scenarios. In addition, it has excellent full concurrent voice/fax processing capabilities, strong performance and high stability, and provides high-quality call services for operators, enterprises, call centers and residential users in residential communities.

The MAG1000 Analog Gateways are developed for interconnecting a wide selection of codecs including G.711A/U, G.723.1, G.729A/B, G.722, G.726-32, iLBC, OPUS, AMR and AMR-WB. MAG1000 series use standard SIP protocol and compatible with Leading VoIP platform, IPPBX and SIP servers, such as Asterisk, Issabel, 3CX, FreeSWITCH, BroadSoft and VOS VoIP operating platform.



### Key features

- 16/24/32 FXS/FXO ports
- Support SNMP and TR069
- Support IPv4 and IPv6
- 3km Line Length
- Support API
- Fully Compatible with leading SIP based VoIP Telephony System
- VEX (Advanced Peer To Peer Call)

## Physical Interfaces

### Capacity

- 16/24/32 FXS with RJ11 & RJ21
- 16/24/32 FXO with RJ11 & RJ21

### Ethernet Interfaces:

- 1 \* WAN, 10/100/1000Mbps, RJ-45
- 3 \* LAN, 10/100/1000Mbps, RJ-45

## Voice & FAX

- G.711A/U, G.723.1, G.729A/B, G.722, G726-32, iLBC, OPUS, AMR and AMR-WB
- Comfort Noise Generation (CNG)
- Modem/POS
- Adaptive (Dynamic) Jitter Buffer
- Programmable Gain Control
- DTMF mode: Signal/RFC2833/INBAND
- T.38/Pass-through, up to 14.4Kbps
- Echo Cancellation (G.168), with up to 128ms

## Call Features

- Call Waiting
- Blind Transfer
- Attend Transfer
- Call Forward on Busy
- Call Forward on No Reply
- Unconditional Call Forward
- Warm/Immediately Hotline
- Message Waiting Indicator
- SIP registration to different servers
- Call Hold
- Do-not-disturb
- 3-Way Conference
- Speed Dial

## FXS

- Connector: RJ11 & RJ21
- Dial Mode: DTMF and Pulse
- Pulse: 10 and 20 PPS
- Caller ID: DTMF/FSK CLI Presentation
- Max Cable Length: 3 km
- Reversed Polarity Programmable Call Progress Tone

## FXO

- Connector: RJ11 & RJ21
- Dial Mode: DTMF/Pulse Dialing
- Caller ID: FSK, DTMF
- Polarity Reversal
- Answer Delay
- Busy Tone Detection

## Software Features

- Hunting Group
- Web ACL
- Telnet ACL
- Action URL
- PPPoE
- OpenVPN
- Digitmap
- Routing Rules based Prefixes
- Caller/Called Number Manipulation
- Activity Detection (VAD)
- Hook Flash
- IMS/3GPP: Conference (3GPP TS 24.147 V8.2.0), IMS Services (3GPP TS 24.173 V8.4.0)

## VoIP

### Protocol:

- SIP v2.0 (UDP/TCP), RFC3261
- SDP (RFC 2327), RTP (RFC2833), RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC2976, RFC3311
- ETC (3GPP TS 24.629, RFC 3891, RFC 3892)
- RTP/RTCP, RFC2198, RFC1889, RFC1890
- Dual Stack (IPv4, IPv6)
- Outbound Proxy
- Support Primary and Backup SIP Server
- RFC2806 TEL URI
- RFC3581 NAT, rport
- VLAN 802.1P/802.1Q
- RFC4028 Session Timer
- DNS SRV/A Query/NATPR Query
- NAT: STUN, Static/Dynamic NAT

## Maintenance

- SNMP v1/v2/v3
- Auto Provisioning
- Web Configuration
- Backup/Restore
- Firmware Upgrade via Web
- QoS, Traffic shaping
- TR069
- IPoE
- Voice/management Vlan
- Syslog (Emerg, alert, critical, error, warning, notice, info, debug)
- CDR
- Ping/Tracert Test
- Network Capture
- NTP/Daylight Saving Time
- IVR local Maintenance
- Cloud Management

## OpenVox MAG1000 Series Analog Gateway

Product Name	MAG1000-16S	MAG1000-24S	MAG1000-32S
	MAG1000-16O	MAG1000-24O	MAG1000-32O

### Interfaces

FXS/FXO Ports	16/24/32
Port type	RJ11/RJ45/RJ21
USB	RJ45
Ethernet port	4* 10/100/1000 Mbps ports

### General Info

Weight( with packaging)	2.86kg	2.98kg	3.1kg
Dimension (bare)	440mm*44.45mm*220mm		
Dimension(with packaging)	510mm*90mm*310mm		
Maximum power	20W	28W	36W
Universal Power Supply	90-264V AC		
Operation Temperature	0°C ~ 45°C		
Operation Humidity Range	10% ~ 90% NON-CONDENSING		
Storage Temperature Range	-20°C ~ 70°C		
Short/Long Haul Ring Load	2 REN, up to 3km on 24 AWG line		
Certification	CE		



OpenVox Communication Co.,Ltd.

Website: [www.openvoxtech.com](http://www.openvoxtech.com)

Addr.: Room 624, 6/F, Tsinghua Information Port, Book Building,  
Qingxiang Road, Longhua Street, Longhua District, Shenzhen, Guang-  
dong, China 518109

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