



MAG2000 Series Analog Gateway

Overview

OpenVox MAG2000 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 MAG2000 Analog Gateways are developed for interconnecting a wide selection of codecs including G.711A/U, G.723.1, G.729A, G.722, iLBC, OPUS, AMR and ARM-WB. MAG2000 series use standard SIP protocol and compatible with Leading VoIP platform, IPPBX and SIP servers, such as Asterisk, Issabel, 3CX, FreeSWITCH, BroadSof2 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 & RJ45
- 16/24/32 FXO with RJ11 & RJ21 & RJ45

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 & RJ45
- 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 & RJ45
- Dial Mode: DTMF/Pulse Dialing
- Caller ID: FSK, DTMF
- Polarity Reversal
- Answer Delay
- Busy Tone Detection
- No Current 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(RFC2327),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 MAG2000 Series Analog Gateway

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|--------------|-------------|-------------|-------------|
| Product Name | MAG2000-16S | MAG2000-24S | MAG2000-32S |
| | MAG2000-16O | MAG2000-24O | MAG2000-32O |

Interfaces

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

General Info

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|----------------------------|---------------------------------|--------|--------|
| Weight (with packaging) | 2.20kg | 2.32kg | 2.44kg |
| Dimension (bare) | 440mm*44.45mm*220mm | | |
| Dimension (with packaging) | 510mm*90mm*310mm | | |
| Maximum power | 28W | 40W | 52W |
| Universal Power Supply | 100 ~ 240V AC / -48~-60V DC | | |
| 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 & FCC | | |



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