



## MAG2100 Series Analog Gateway

### Overview

OpenVox MAG2100 is a multifunctional analog gateway for seamless connection between IPPBX, fax machines, analog phones and operators. MAG2100 analog gateway supports 48/72/96 FXS interfaces with modular design, allowing for flexible addition or removal of module boards as needed. It provides RJ21 and RJ45 interface modules, 2 1000Mbps Ethernet ports, 1 SFP port, and 1 Console port. Additionally, it offers excellent capacity for concurrent voice/fax processing, delivering strong performance and high stability, thus providing high-quality communication services for service providers, enterprises, call centers, and residential users in communities.

The MAG2100 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 AMR-WB. MAG2100 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

- 48/72/96 FXS ports
- Support SNMP and \*TR069
- Support IPv4 and IPv6
- 3km Line Length
- G.711A/U, G.723.1, G.729A, G.722, iLBC, OPUS, AMR and AMR-WB
- Support API
- Fully Compatible with leading SIP based VoIP Telephony System
- VEX (Advanced Peer To Peer Call)

## Physical Interfaces

### Capacity

- 48/72/96 FXS with RJ21
- 1 \* console RS232(RJ45)
- RJ45/RJ21

### Ethernet Interfaces:

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

## Voice & FAX

- G.711A/U,G.723.1,G.729A,G.722,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
- 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: RJ45 & 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

## VoIP

### Protocol:

- SIP v2.0 (UDP/TCP), RFC3261
- SDP,RTP(RFC2833), RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC2976, RFC3311
- RTP/RTCP, RFC2198, RFC1889
- IPv4 and IPv6
- Outbound Proxy
- 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

## Software Features

- Hunting Group
- Web ACL
- Telnet ACL
- Action URL
- PPPoE
- OpenVPN
- Digitmap
- Routing Rules based Prefixes
- Caller/Called Number Manipulation
- VEX (Advanced Peer To Peer Call)

## Maintenance

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

\* Representatives are developing

## OpenVox MAG2100 Series Analog Gateway

Product Name MAG2100

### Interfaces

FXS Ports 48/72/96

Console 1 \* RS232(RJ45)

Port Type RJ45/RJ21

Ethernet port 2 \* 10/100/1000Mbps ports

Network Interface 1 \* 1000Mbps SFP

### General Info

Weight(with packaging) 4.5kg

Dimension(with packaging) 440mm\*44.5mm\*335mm

Maximum power 120W

Universal Power Supply 100 ~ 240V AC / -48 ~ -60V DC

Operation Temperature 0°C ~ 45°C

Redundant Power Supply Support

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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