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/RJ45 interface modules, 2 Gigabit Ethernet ports, 1 Gigabit 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 codec including G.711A/U, G.723.1, G.729A, G.722, G.726, 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

- 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/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: 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(RFC2327),RTP(RFC2833), RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC2976, RFC3311
- ETC (3GPP TS 24.629, RFC 3891, RFC 3892)
- RTP/RTCP, RFC2198, RFC1889, RFC 1890
- 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

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)

Maintance

- 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 MAG2100 Series Analog Gateway

Product Name	MAG2100-48S	MAG2100-72S	MAG2100-96S
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		