AGW 32/48/128/192

Modular Voice Gateway

Vola AGW series is a modular voice gateway that provide exceptional performance and telecom-grade quality, providing multiple voice codec capabilities. AGW series provide up to 192 phone lines, you can flexibly insert different cards to expand the telephone system. By leveraging advanced power management design, AGW series provides dual-power standby, and optional for both AC and DC adapter, meeting different environments. Optional for battery pack, ensuring uninterrupted communication. AGW series provides multiple I/O for environment awareness and lone-term maintenance. The built-in 12V/5V output allows the system to power external devices like 4G/5G modem in power outage. This well- designed and feature-rich voice gateway can fit perfectly in different application scenarios.

Main Features:

Modular design, effortless maintenance

AGW series adopts modular design, the subscriber units, battery units, power units and fan unit support hot-swapping, ensuring uninterrupted operation when there is failure in component. Greatly saving the time and cost for the long-term maintenance.

Feature-rich interfaces, future-proof connectivity

AGW series provides hot swapping subscriber units which provides 50-Pin RJ21 connectors for bulk connection and RJ11 ports for on-site voice test. AGW adopts SFP and RJ 45 dual uplink, providing flexible connection for different network and failover capability. The AGW series also provide 12V/5V DC output to power a 4G/5G modem to form a complete POTS replacement solution.

Hot-swapping power, uninterrupted operation

AGW series provide safe and robust battery units and different power option (AC and DC), providing flexible power solution to adapt to different scenarios. The battery pack can provide enough backup time for maintenance when in power outage. AGW128/192 also support dual power backup, provides great redundancy and flexibility.

Environment sensing, designed for telecom-grade

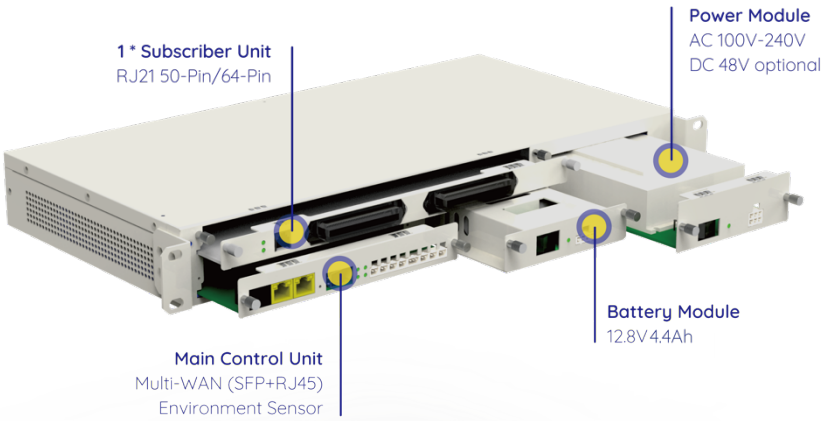
AGW series integrate 5 sensor ports, which allows you to connect to different sensors, including fire sensor, door open sensor, humidity sensor, flood sensor and surge sensor. When these sensors are activated, you can get notification via multiple ways. This is crucial for long-term operation, especially for telecom application scenarios.

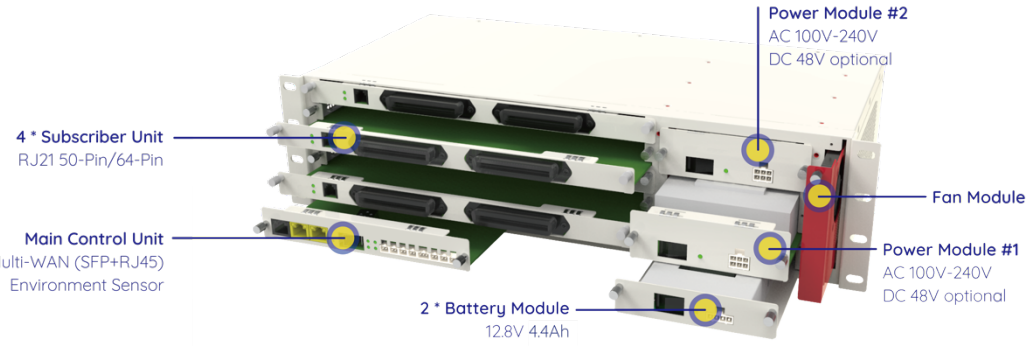
- RJ21 + RJ11 Ports
- Dual WAN: SFP + RJ45
- 1 Console (RS-232C) Port (RJ45)
- Modular Battery Pack
- Dual Power Modules (AC/DC)
- 12V/5V DC Output Ports (1A Max)
- 5 Sensor Ports (Fire, Door, Humidity, Flood, SPD)
- 1 Remote Reboot Port (RICS)
- 4KV lightning protection design
- Support Alarm IP Communicator (Contact ID, Pulse, Ademco High Speed, BFSK and more...)
- Support Alarm Contact ID Relay
- Support T.30/T.37/T.38
- Support V.150.2, 150.1 Modem

Product Structure	
Shell Material	> SGCC
Network Port	> Eth0, SFP Module, 10/100/1000Mbos > Eth 1 & 2, 1 WAN & 1 LAN(MGMT)，10/100/1000Mbps
FXS Port	> Subscriber Unit: 2 * RJ21 （50-Pin）+ RJ11
External Port	> Short Circuit Sensor: 4 * 2-Pin XHB2.5 (Fire, Door Open, Flood, Surge Protection) > Analog Sensor: 1 * 3-Pin XHB2.5 (4.75~5.25 Output, 0-3.3V Data Input) > Short Circuit Reset: 1 * 2-Pin XHB2.5 (Reset the device remotely)
Debug Port	> 1 * RJ45 (RS232C, 115200 Baud Rate)
Power Port	> AC 100V~240V (6-Pin 4.2mm ATX Connector) > DC 47~53V (2-Pin 4.2mm ATX Connector)
Output Port	> 1 * 12V (2-Pin XHB2.5 Connector, 2A Max) > 1 * 5V (2-Pin XHB2.5 Connector, 2A Max)
Indicator	> Subscriber Unit: 1* ACT, 1* ERROR > Main Control Unit: 1 * UPLINK, 1 * ACT, 1 * BAT, 1 * ERROR > Battery Unit: 1* BAT > Power Unit (AC/DC): 1 * PWR
Dimension	> 2U (128&192): 440 * 220 * 115 mm (L * W * H) > 1U (32&48) : 440 * 220 * 65 mm (L * W * H)
Performance Specification	
Voice Quality	> G.711 (A/μ-Law): average MOS 4.2 > G.729A & G.723.1: average MOS 3.8 > Echo Cancel
Call Capability	> 32/48/64/64 concurrent calls (AGW32/AGW48/AGW128/AGW192)
Voice Codec	> G.711(A/μ-Law) > G.729 > G.723.1 > G.722 > iLBC > AMR-NB/AMR-WB
Operating Environment	> Operating temperature: -20° C~ 60° C > Storage temperature: -20° C ~ 70° C > Relative humidity: 10% ~ 90% (no condensation)
Lightning Protection	> 4KV

Call Function	
Call	> 3-way conference > Call hold > Call transfer > Call forward > Call waiting > Hotline > Caller ID > Anonymous call > Dial plan > Blacklist > DND > CID/CWCID/CPC > Call logs > DTMF mode: In-band, RFC2833/4733, SIP-INFO
Protocol	
Protocol	> SIPV2.0(RFC3261) > MeGaCo (Optional) > SDP(RFC2327) > RTP/RTCP(RFC1889/RFC1890) > NAPTP for SIPURI check (RFC2915) > STUN(RFC3489) > ARP/RARP(RFC826/903) > NTP/SNTP(RFC8030) > TFTP/HTTP/HTTPS auto configuration > Message Tips (RFC3842) > DHCP Option Fields (RFC3361) > DNS/DNSSRV(RFC1706/RFC2782)
Management and Application	
Management	> Firmware update OTA > Firmware backup & restore > Operation Log > Network management Interface > Local and remote system log (RFC3164) > CLI command > Automatic configuration > SNTP time sync > Multiple user level > Telnet > TR069 (TR069, TR104) > SNMP v2 > VolaCloud & POTS Media SBC

Application	> NAT/NAPT router function > MAC address clone > Support DDNS > SIP proxy redundancy > Built-in NAT line router > DHCP server / client > IP collision detection > Port mapping, DMZ > L2/L3 QoS > 802.1Q VLAN/802.1p, DSCP > VPN (PPTP, L2TP, IP Sec) traversal > IGMPv2 > Modem: V150/V150.1 > Support IP Communicator: Contact ID, Pulse, BFSK, High Speed DTMF > FAX：T.30/T.37/T.38 > Calling Party Control (CCP)
Ordering Information	**Subscriber Unit:** SSU-32 (32 * FXS Ports in 2 * RJ21 Telco Port) SSU-48 (48 * FXS Ports in 2 * RJ21 Telco Port) **AGW Case:** 1U Case (Include Backboard and Accessories) 2U Case (Include Backboard and Accessories) **MCU (SFP + Dual 1000M RJ45)** **Battery (12.8V 4.4Ah LFP Battery)** **Power Module:** AC-DC (100-240V, 150W) AC-DC (100-240V, 75W) DC-DC (47-53V, 150W) DC-DC (47-53V, 75W) **FAN Module (2U only)**





About Vola

Vola Networks, a US-based equipment provider, specializes in hardware solutions for POTS applications.
By leveraging reliable hardware and POTS media SBC, Vola addresses challenges in Alarms, Elevator Phones, Fax and Modem Communications.

Vola's POTS media SBC is fully compatible with UC Cloud platforms such as Crexendo, Broadsoft and Metaswitch, etc.

For Managed Service Providers,
Vola offers hardware and POTS media SBC to upgrade existing platform to support Alarm, Fax and Modem.

For Wireless SD-WAN Service Providers,
Vola provides hardware, POTS media SBC and Crexendo UC platform,
delivering a comprehensive turnkey POTS replacement solution.

Our Linkedin Profile

Vola Networks Inc.

Address: 683 Quinn Ave, San Jose, CA 95112
Mail: sales@volanetworks.com
Website: www.volanetworks.com