

## GA100-144R VoIP Gateway

The GA100-144R analog voice gateway can be used to connect traditional telephones, fax machines, modems, POS devices, and PBX systems to IP-based telephone networks, providing powerful, stable, reliable, and cost-effective VoIP solutions for IP call centers and multi-branch offices.

This analog gateway features an ARM quad-core processor + CPLD hardware architecture and an embedded Linux system. Using an ARM chip cluster stacking solution, this product delivers high-density, high-capacity gateway performance with exceptional stability.



### Highlights

- Supports 144-channel FXS voice access with high capacity density, and is equipped with 2 Ethernet ports, meeting large-scale access requirements.
- Enables seamless call conversion between TDM and IP. Supports configuration via a Web interface as well as software update and upgrade.
- Facilitates efficient management and maintenance: a quick installation wizard and Web management page are provided.
- Supports SIP/IMS protocols and VPN client functionality; its FXS ports support polarity reversal transmission. It offers strong compatibility with various softswitch platforms and excellent adaptability.
- Features a professional hardware-based echo cancellation design to ensure high-quality voice communication.

## Generic

- Supports 144-channels (FXS) voice services
- Enable 144 concurrent calls
- Supports conversion between TDM and IP calls
- Supports SIP/IMS registration
- Supports Simultaneous Registration of Multiple Servers (Primary and Backup)
- Centralized management
- Tone Detector
- Number Change
- Automated Gateway Configuration Deployment
- ACL extension registration and web access support ACL

## Audio

- Narrowband codec : G.711a/u, G.723, G.729A/B, iLBC, AMR
- DTMF mode : In-band, Out-of-Band (RFC2833/ SIP Info)
- Acoustic Echo Canceller (AEC)

## FXS Features

- Three-party conferencing
- Group ringing
- Round-robin ringing
- Pick-up
- Call forwarding
- Call waiting
- Do not disturb
- Hook Flash Detection
- Calling Number Delivery: FSK and DTMF
- Auto-dialing
- Caller ID
- Fax
- Polarity Reversal

## Network

- 10/100/1000 Mbps Ethernet
- IP Mode:IPv4/IPv6
- IP Configuration: Static IP / DHCP
- IP address and DNS domain name resolution
- Support VPN client
- Firewall

## Protocols

- SIP V1.0/2.0, RFC3261
- TCP
- UDP
- HTTP
- HTTPS
- ARP/RARP
- DNS
- NTP
- TFTP
- TELNET
- STUN
- TR069
- SRTP
- TLS
- SIP/IMS
- SNMP

## Deployment & Management

- Web Management
- Supported Languages: Chinese, English, and Russian
- Firmware Upgrades
- Tracing test Web-based Ping test/Tracert test
- Supports administrator authentication
- Monitors system and service status
- Support centralized management by a third party
- Automatic Deployment
- Syslog (Error, Warning, Info, Debug)

## Physical Specifications

- FXS Ports: RJ21 x6
- Gigabit electrical ports x2
- Gigabit network optical port x1
- USB Port x1: Mini USB x1
- Indicator lights: PWR, WAN, LAN, FXS
- Lightning Protection Grade: Level 4
- Access Voltage:
  - AC power input: 100-240V~3A
  - DC power input: -38.4V~-60V, typical value -48V
- Telephone Line Impedance: Meets national standard three-element network impedance.
- Power Consumption: <136W
- Working temperature: 0°C~45°C
- Storage Temperature: -20°C~85°C
- Working humidity: 8%~90%, No condensation
- Storage Humidity: 8%~90%, No condensation
- Qty/CTN: 2 pcs
- N.W/CTN: 13.0 kg
- G.W/CTN: 17.0 kg
- Product weight: 6.5 kg / 8.0 kg(with packaging)
- Device Dimensions: 440 x 66 x 412.4 mm
- Gift Box Dimensions: 560 x 530 x 162 mm
- Outer CTN Dimensions: 560 x 530 x 368 mm

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