

Max FXS:128

Max 128 Routes  
Concurrent Calls



RGW128 is a high-capacity, high-performance, and highly reliable voice access gateway. It supports comprehensive office telephone functions and offers flexible and diverse access methods. With its excellent cost-performance ratio, the RGW128 is especially suitable for large-scale call centers and high-end IP voice integration projects, including those in government, financial institutions, and rail transit sectors.

## Product Features

- Supports SIP and MGCP protocols
- 500 routing and number manipulation rules
- Fax over IP using T.38&G.711 pass-through
- Hot-swappable RJ21 voice interface card with per line LED
- Dual redundant Gigabit Ethernet port
- Dual DC/AC power redundancy
- Automatic download of configuration and upgrade packages
- Remote management, monitoring, and operation via Redstone Cloud services
- Support Redstone management system and third-party network management (TR-069、SNMP)
- Interoperability with popular SIP servers like Cisco CallManager/CUCM, Broadsoft, VoS, FreeSWITCH, Asterisk/Elastix and other business platforms
- Provides 3.5kV lightning protection

## Rich Functionality

The RGW128 supports a wide range of office phone functions, including call forwarding, three-way calling, caller ID, do not disturb, Ringback tones, and more. Additionally, it offers unique features such as custom routing and number bitmaps, fully meeting the needs of diverse applications and solutions.

## Protect the old assets

The RGW128 has a significant cost performance advantage and can continuously be compatible with the latest VoIP technologies and standards through software upgrades, reducing duplicate investments.

## High Reliability

The RGW128 features dual Gigabit Ethernet ports with redundancy protection to ensure uninterrupted communication. Additionally, it offers optional 1+1 DC/AC power modules to meet high reliability requirements. For deployment, the RGW128 provides disaster recovery options, including registration switching between primary and backup SIP servers, as well as load balancing, to ensure the device operates with high reliability.

## Convenient remote management

The RGW128 has a built-in Redstone Cloud service client, allowing external application software to access devices deployed behind enterprise NAT or firewalls through Redstone Cloud. The RGW128 can be used in conjunction with the Redstone network management monitoring system for real-time device monitoring, alarm notifications, remote packet capture, software upgrades, and other maintenance tasks. In addition, it also supports connecting third-party network management systems through TR-069 and SNMP network management protocols.

## Protocols

<b>Call control</b>	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)
<b>Network</b>	Telnet, SSH, HTTP, HTTPS, DHCP client, PPPoE client, Radius, DNS, STUN

## Media Processing

<b>Caller ID Codec</b>	Multiple caller ID standards: Bellcore Type 1&2 ETSI, BT, NTT, DTMF
<b>Codec</b>	G.711, G.729A, G.723.1, GSM, iLBC
<b>DTMF</b>	In band voice transmission, RFC2833, SIP-INFO
<b>Hook-Flash</b>	Local processing, RFC2833, SIP-INFO
<b>Fax Over IP</b>	G.711 pass-through, T.38 fax, compatible with G3 fax machines, Maximum fax rate of 33,600 bps (pass-through)
<b>Voice Quality enhancement</b>	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC)

## Voice

<b>Call transfer</b>	Blind transfer, Consultative transfer
<b>Call Forward</b>	Call forward all, Call forward no answer, Call forward busy
<b>Call recording storage</b>	Remote recording server for storage
<b>Other Settings</b>	Programmable routing, digital bitmap, 3-way calling, abbreviated dialing, Do not disturb, same vibration, Caller Ringback Tone, Search Group, differential ringing

## Security

<b>Protocol</b>	SIP port, HTTP/HTTPS access port, RTP port
<b>Access whitelist</b>	HTTP/HTTPS access whitelist, Telnet/SSH access whitelist
<b>Voice security</b>	SIP Authorized Address
<b>Prevent malicious intrusion</b>	Ping blocking
<b>Encryption</b>	SIP signaling encryption, profile encryption import/export, password/PIN code encryption

## QoS

<b>QoS</b>	DiffServ, TOS, 802.1P/Q VLAN
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## High Reliability

<b>Disaster Recovery Mechanism</b>	Primary-Standby Switch, Multi-Machine Hot Standby, Load Balancing
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## Remote Control

<b>Device management</b>	Redstone UMS, TR-069 management (TR-069, TR-104 and TR-106), SNMP
<b>Centralized Cloud Services</b>	Redstone Cloud Download configuration file via
<b>Auto Provisioning</b>	TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection

## Provisioning, Administration and Maintenance

<b>Log management</b>	8-level logs, Syslog
<b>Data capture</b>	Port capture, Packet capture
<b>Status and statistic</b>	Call status and history, Device status monitoring and statistics
<b>Upgrade</b>	Firmware upgrade via Web GUI

## Included Software

<b>Finder</b>	Obtain IP addressed quickly
<b>Voice File Converting</b>	Convert uploaded IVR audio files
<b>Recording Agent</b>	Comprehensive management of audio files

## Hardware

CPU	1GHz
Voice Processor Array (Digital Signal Processing)	200MHz, can be equipped with 3 to 12 chips
RAM	256MB, DDR3
Flash	32 MB
Weight (net)	6.32 kg maximum
Single/Dual AC power supplies	100 to 240V AC, 50/60 Hz, 2 A maximum
Single/Dual DC power supplies	-36 to -72V DC, 4 A
Mounting	Rack
Operating	Temperature: 0 to 40°C Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)