Redstone Systems

16-48 FXS/FXO ports

Max 48 concurrent calls

RGW 48-A Series Gateway, a cutting-edge, high-performance voice access solution newly introduced by Redstone . Built upon the standard SIP protocol, it seamlessly integrates with a range of IP-PBX and VoIP platforms, offering versatile access options. Tailored for operators and ideal for large-scale deployment across projects and enterprises, RGW48-A boasts robust concurrent call handling capabilities. Its advanced management features make it particularly well-suited for IP contact center solutions, effortlessly catering to the high call volumes demanded by large-scale operations

Product Features

- Supports SIP protocol and MGCP protocol
- 500 routing and number conversion rules
- T.38 fax, voice/fax automatic switching
- Support dual Network Port/Dual Redundant
- Dual-AC/DC power supplies
- Escape Due Emergency Failover
- TLS/SRTP

- Automatic download of configuration and upgrade packages
- Support centralized operation and maintenance as well as remote cloud management
- Support New Rock management system and third-party network management(TR-069、SNMP）
- Compatible with Cisco CallManager/CUCM,Broadsoft, Huawei IMS, VoS, FreeSWITCH, Asterisk/Elastix and other business platforms
- Provide 3.5kV lightning protection

Versatility of Intelligent Gateways

The RGW48-A serves as an intelligent gateway, boasting a wide range of office phone features including call forwarding, transfer, 3-way calling, caller ID display, do not disturb, customizable ringtones, and vibration settings. It also supports advanced functionalities like custom routing and number mapping, making it adaptable to diverse applications and solutions.

Comprehensive security strategy

The RGW48-A features a robust security framework with multiple layers of protection, designed to counter various threats including brute-force attacks on management platforms and SIP intrusions. This comprehensive architecture guarantees seamless and worry-free communication and management, meeting the rigorous safety standards of enterprises and operators.

Diverse Remote Management Options

The RGW48-A offers versatile remote management. Through Redstone's cloud service client, external applications can access devices behind enterprise NAT or firewalls via the Redstone Cloud. Integration with the Redstone network management system enables real-time monitoring, alarms, remote packet capture, and software upgrades. It also supports TR-069 and SNMP protocols for seamless connectivity with third-party systems.

Enhanced Reliability Assurance

The RGW48-A ensures continuous call operations with dual network port redundancy protection, mitigating local network failures. Optional 1+1 DC/AC power modules enhance reliability. Seamless registration and switching between primary and backup SIP servers facilitate deployment. Multiple disaster recovery mechanisms, including load balancing and PSTN disconnection, guarantee reliable operation even in challenging conditions.

Specification

Protocols

Call control	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)
Network	SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN

Media Processing

Caller ID Codec	Bellcore/Telcordia, ETSI, BT, DTMF
Codec	G.711、G.729A、G.723.1、GSM、iLBC
DTMF	In-band audio, RFC2833
Hook-Flash	Local processing, RFC2833, SIP-INFO T.38,
Fax Over IP	T.38、G.711 pass-through
	T.38 compliant Group 3 Fax Relay
	Maximum fax rate of 33,600 bps (pass-through)
Disconnect modes	Polarity reversal, Busy tone detection, Loop current
QoS	DiffServ, TOS, 802.1P/Q VLAN tagging
Voice Quality enhancement	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

Voice

Call transfer	Blind transfer, Consultative transfer
Call Forward	Call forward all, Call forward no answer, Call forward busy
Call recording storage	Remote recording server for storage
Other Settings	Programmable routing, digital bitmap, 3-way calling, abbreviated dialing, Do not disturb, same vibration, Color Ringtone, Hunt Group, differential ringing

Security

Protocol	HTTPS, SSH, TLS, SRTP
Encryption	SIP signaling encryption, profile encryption import/export, password/PIN code encryption
Intrusion prevention	Malicious IP lock, whitelist access, firewall (dynamic defense), Static Defense, prohibited ping, SIP allowed IP addressed, Alarm and notification
VLAN	Auto discovery via DHCP, Manual configuration
VPN Client	L2TP, OpenVPN

High Availability

Redundancy	Primary-Standby, Hot-Standby, Load balancing
***Escape**	Power failure, Network failure

Remote Control

Device management	Redstone UMS, TR-069 management (TR-069, TR-104 and TR-106), SNMP

Remote Access over TCP Auto Provisioning	Redstone Cloud Download configuration file via TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection

Provisioning, Administration and Maintenance

Log management	8-level logs, Syslog
Data capture	Port capture, Packet capture
Status and statistic	Call status and history, Device status monitoring and statistics
Upgrade	Firmware upgrade via Web GUI or Auto provisioning

Included Software

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

Hardware

CPU	1GHz（quad-core）
RAM	512 MB, DDR3
Flash	32 MB
H×W×D (1U)	44 × 440 × 260 mm
Weight (net)	3 kg maximum
Network Interface	2×10/100/1000Mbps adaptive network ports* support redundancy protection
Single/Dual AC power supplies	100 to 240V AC, 50/60 Hz, 1.2 A maximum
Single/Dual DC power supplies	-36 to -72V DC, 2.5 A
Power consumption	60 W
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)

Product Type Description

RJ 45	FXS	FXO
RGW48-A-16S	16	/
RGW48-A -32S	32	/
RGW48- A- 48S	48	/
RGW48-A-8S/8	8	8
RGW48-24S/8	24	8
RGW48-40S/8	40	8
RGW48-A-16S/16	16	16
RGW48-A-32S/16	32	16

RJ 45	FXS	FXO
RGW48-A-24S/24	24	24
RGW48-A-16FXO	/	16
RGW48-32FXO	/	32
RGW48-A-48FXO	/	48

RJ 21	FXS	FXO
RGW48-A-24S-RJ21	24	/
RGW48-A-48S-RJ21	48	/