RGW48 Analog VoIP Gateway

RGW48

Max. FXS/FXO ports: 48

Max. concurrent calls: 48

Features

- SIP/MGCP protocols
- 500 routing and number manipulation rules
- Fax over IP using T.38 & G.711 pass-through
- Dual redundant Ethernet ports
- Dual DC/AC power supplies available
- PSTN failover
- TLS/SRTP
- Auto provisioning
- Remote access via the Redstone Cloud*
- Management with the Redstone or third-party Remote Device Management Systems (TR-069, SNMP)
- Interoperability with popular SIP servers, such as Cisco CallManager/CUCM, Broadsoft, Microsoft Skype for Business(Lync), and Asterisk/Elastix
- Class I lightning protection

* The Redstone Cloud is based on Amazon.

The RGW48 is a reliable, cost-effective, high-performance VoIP gateway with up to 48 FXS/FXO ports, designed to meet the needs of high-traffic contact center and enterprise applications.

The feature-rich RGW48 allows users to consolidate analog phones, fax machines, and POS terminals, configurable with up-to-full concurrency over SIP trunks and the PSTN.

Comprehensive Feature Set

As an intelligent gateway running on embedded Linux operating system, the RGW48 supports an advanced feature set such as call forward, call transfer, 3-way calling, caller ID, DND, color ringback tones, call forking, automatic routing, digit map, and much more, providing a complete and highly reliable VoIP solution.

Carrier-class Reliability

The RGW48 provides high-availability configurations with SIP registration failover, load balancing and PSTN failover with optional 1+1 redundancy of Ethernet ports and power supplies, virtually eliminating downtime.

Robust Protection against Intrusions

RGW48 provides a rich set of features to support perimeter protection against malicious intrusions, such as brute force logins and SIP attacks, ensuring a high level of security in your IP telephony environment.

Easy Remote Management

Embedded with the Redstone Cloud client, the device located behind enterprise NAT or firewall can be easily accessed for maintenance and troubleshooting purpose or by far-end applications.

Real time monitoring, alarm notification, remote packet capture and software upgrading can be performed with the Redstone or third-party Remote Device Management Systems connecting over TR-069 or SNMP protocol.

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	Bellcore/Telcordia, ETSI, BT, DTMF
Codec	G.711 (a/μ), G.729a, G.723.1, GSM, iLBC
DTMF	In-band audio, RFC2833, SIP-INFO
Hook-flash	Local processing, RFC2833, SIP-INFO
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
Call settings	Routing based on the caller or callee number, Digit map, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tones, Hunt group, Ring cadence, Message Waiting Indicator (MWI)

Security

Protocol	HTTPS, SSH, TLS, SRTP
Encryption	Encrypted password/PIN
Intrusion prevention	Brute force login protection, Access list, Firewall, SIP-allowed IP addresses, Alarm and notification*
VLAN	Auto discovery via DHCP, Manual configuration
VPN client*	L2TP, OpenVPN

High Availability

Redundancy	Primary-Standby, Active-Standby, Load balancing
PSTN failover	Power failure, Network failure

Provisioning, Administration and Maintenance

Device management	Redstone Remote Device Management System, TR-069 management (TR-069, TR-104 and TR-106), SNMP
Remote access over TCP	Redstone Cloud

Auto provisioning	Download configuration file via TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection
Log management	8-level logs, Syslog
Data capture	Port capture, Packet capture
Status and statistic	Call status and history, Device status monitoring and statistics collection
Upgrade	Firmware upgrade via Web GUI or Auto provisioning

Hardware

CPU	1GHz
Voice DSP module	200 MHz, 2 to 6 modules
RAM	128 MB, DDR3
Flash	32 MB
H×W×D (1U)	44 × 440 × 260 mm
Weight (net)	3 kg maximum
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)

CE FC RoHS