

RGW4 Analog VolP Gateway



RGW4

Max. FXS/FXO ports: 4
Max. concurrent calls: 4

Models

RGW4	FXS	FXO
RGW420	0	2
RGW402	2	0
RGW422	2	2
RGW404	4	0
RGW440	0	4

Features

- IMS/SIP/MGCP protocols
- Unequalled configurability of FXS and FXO ports
- TLS/SRTP
- L2TP/OpenVPN client
- 500 routing and number-manipulation rules
- Configurable SIP ports and IP-address whitelist
- High-speed fax with maximum rate of 33,600 bps by T.38 or G.711 pass-through
- Polarity-reversal/busy-tone detection
- High availability & PSTN failover
- 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

Developed for low-port-count applications, such as fax-terminal connectivity, small businesses, SOHO, and residential IP-telephony applications, the RGW4 analog VoIP gateway is integrated VoIP-FoIP devices that provide reliable and cost-efficient access methods for deploying converged communication solutions for network operators and enterprises.

The RGW4 is designed as a compact unit with 2, or 4 FXS/FXO ports, 1 WAN port and 1 PC port (both are 10/100/1000Mbps Ethernet ports), which allows users to apply it as an All-in-One system capable of providing versatile solutions by connecting analog phone, fax and POS machine, IP telephony and PSTN.

Comprehensive Feature Set with Intelligent Engine

As an intelligent gateway running on embedded Linux operating system, the RGW4 is compatible with many highlighted features such as call forward, call transfer, 3-way conference, caller ID, DND, color ringback, forking, automatic routing, digitmap, PSTN failover, and much more to provide a complete and highly reliable VoIP solution applicable to nearly every application scenarios.

High Reliability

The hardware design of the RGW4, from architecture to component selection, takes full consideration of improving their reliability.

In addition, with high availability featuring primary-standby, active-standby and load balance as well as PSTN failover designed to handle the failure of the SIP proxy servers, power supply and network, the users are provided with carrier class reliability with minimized potential downtime.

Robust Protection against Intrusions

The RGW4 provides 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.

^{*} The Redstone Cloud is based on Amazon.



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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 IDBellcore/Telcordia, ETSI, BT, DTMFCodecG.711 (a/ μ), G.729a, G.722, G.722.2DTMFIn-band audio, RFC2833, SIP-INFOHook-flashLocal 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 (T.38)

Silence suppression (VAD, CNG), PLC

Disconnect modes Polarity reversal, Busy tone detection, Loop current

QoS DiffServ, TOS, 802.1P/Q VLAN tagging

Voice-quality Echo cancellation (G.168-2004), Jitter buffer, **enhancement**

Voice

Call transfer Blind transfer, Consultative transfer

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

Redstone Cloud

System, TR-069 management (TR-069,

TR-104 and TR-106), SNMP

Remote access

over TCP

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	Dual core,880 MHz	
RAM	128 MB	
Flash	16 MB	
H×W×D	30 × 150 × 109 mm	
Weight (net)	0.3 kg	
Power	12VDC/1.5A	
Power consumption	6 W	
Mounting	Desktop	
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)	



(FC RoHS