



RGW96-48S-1U-D

Max. FXS 48 Ports

Max.48 concurrent calls

H×W×D (1U): 44× 440 × 300 mm

Features

- SIP/MGCP protocols
- 500 routing and number manipulation rules
- Fax over IP using T.38 & G.711 pass-through
- Hot-swappable RJ21 interface card with per line LED
- Dual redundant gigabit Ethernet ports
- Dual AC/DC power supplies available
- Auto provisioning
- Remote access via the Redstone Cloud*
- Management with 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 RGW96 series is a cost-effective, high-performance VoIP gateway with up to 48 FXS ports, targeting multi-tenant, large contact center and enterprise telephone communication applications, in which reliability and easy maintenance are critical.

Powered by innovative VoIP technology from Redstone, the RGW96 allows users to apply it as an N-to-1 system capable of connecting analog phone, fax and POS machine, IP telephony, and PSTN.

Comprehensive Feature Set

As an intelligent gateway running on embedded Linux operating system, the RGW96 supports an advanced feature set such as call forward, call transfer, 3-way calling, caller ID, DND, color ringback, call forking, automatic routing, Digitmap and much more, to provide a complete and highly reliable VoIP solution applicable to most scenarios.

Carrier-class Reliability

RGW96 supports high availability configuration including SIP registration failover, load balance as well as PSTN failover, with reliable 1+1 redundancy of gigabit Ethernet ports and power supplies (optional), ensuring no loss of service and minimizing the communications downtime.

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.

Investment Protection

Investment protection is a significant part of Redstone VoIP product development focus, providing better returns for the customers who invest in VoIP products by maintaining compatibility with newest VoIP technologies via software upgrading, avoiding repeated investments.

Specification

Protocols	
Call control	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)
Network	Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN
Media Processing	
Caller ID	Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
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
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, Digitmap, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tone, Hunt group, Ring cadence, Message Waiting Indicator (MWI)
Security	
User-defined ports	SIP port, RTP port, HTTP/HTTPS port to access the Web GUI
Access list	IP addresses allowed to access HTTP/HTTPS/Telnet/SSH service
VoIP	SIP-allowed IP addresses
Encryption	Encrypted password/PIN
Intrusion prevention	Ping blocking
QoS	
QoS	DiffServ, TOS, 802.1P/Q VLAN
High Availability	
Redundancy	Primary-Standby, Active-Standby, Load balancing
Failover	PSTN failover upon power or network failure

Provisioning, Administration and Maintenance

Device management	Redstone Remote Device Management System, TR069 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

Hardware

CPU	1 GHz
Voice DSP module	200 MHz, 3 to 6 modules
RAM	128 MB , DDR3
FLASH	32 MB
Interface card	RGW96-48S-1U-D-RJ21
H×W×D	44 × 440 × 300 mm
Weight (net)	3 kg maximum
Single/Dual AC power supplies	100 to 240 VAC, 50/60 Hz, 1.2A maximum
Single/Dual DC power supplies	-36 to -72 VDC, 2.5A
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)



RJ21