



**REX50**

Max.IP extensions	128
Max.analog extensions	12
Max.IP trunks	140
Max.analog trunks	6
Max. concurrent calls	30
H×W×D	41×286×161mm
Model	12S,10S/2,8S/4,6S/6

## Features

- Built-in analog-gateway modules and storage for recording, FoIP, and voicemail
- Headquarters and branch-office communications through SIP-based tie trunks
- Mobile extensions keep you connected anywhere and anytime
- The Windows-based SoftConsole provides click-to-dial, call history, and call recording
- XML/HTTP-based RESTful API for third-party applications
- Remote access via the Redstone Cloud\*
- Management with the Redstone or third-party Remote Device Management Systems (TR-069, SNMP)
- Add-on middle-ware for hospitality applications
- Peer-to-peer communication between Redstone IP-PBX and SIP terminals across NAT without the need for static IP addresses, DDNS or port mapping on the access router

\* The Redstone Cloud is based on Amazon.

REX50 is an All-in-One telephony systems. It provides seamless connectivity to not only PSTN and analog terminals, but also IP-based SIP trunks and SIP terminals. Using VoIP, REX50 supports inter-office calls over the Internet or VPN.

## Always Connected with Your Customers

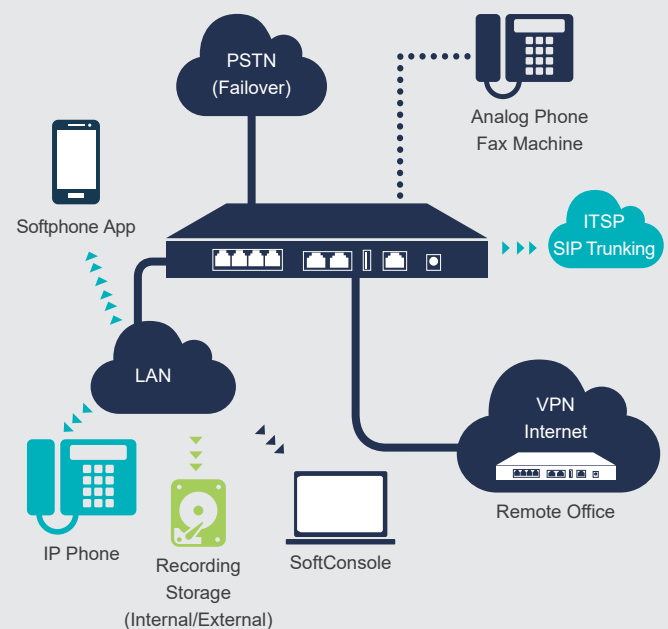
With features such as remote extension, call forking to your mobile phone and call-back, REX50 assures you that no matter where you are, whether in your office, traveling abroad, or working at home, you will never miss any important business call.

## Improving Call Answer Rate

The smart auto attendant can provide 24/7 live answering service to customers, and direct the incoming calls efficiently to the extension or cell phone of the right person through configurable voice menus in business/non-business hours and holidays. Even, it can deliver the calls from VIP customers to the agents directly, bypassing voice menus.

## Reduction of Telecommunications Cost

REX50 has all the IP remote-calling functions needed to support the remote worker, business travel, and communication with branches through the Internet. With IP connectivity, international or long-distance calls are turned into local toll-free calls. With advanced routing capabilities, REX50 can route calls intelligently according to call types. Combined with softphone App and SoftConsole, you can achieve more effective and comfortable communications between you and your customers.



## Specification

### Protocols

<b>Call control</b>	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)
<b>Network</b>	Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, DNS(A/SRV record), STUN, OpenVPN client, 802.1X

### Media Processing

<b>Caller ID</b>	Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
<b>Codec</b>	G.711 (a/μ), G.729a, G.722.2, G.722
<b>DTMF</b>	In-band audio, RFC2833, SIP-INFO
<b>Hook-flash</b>	Local processing, RFC2833, SIP-INFO
<b>Fax over IP</b>	T.38, G.711 pass-through T.38 compliant Group 3 Fax Relay Maximum fax rate of 33,600 bps (T.38)
<b>Disconnect modes</b>	Polarity reversal, Busy tone detection, Loop current
<b>Voice-quality enhancement</b>	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

### Voice

<b>Smart auto attendant/ Receptionist</b>	Business/non-business hours/holiday, Music on hold, Attendant group, Multilingual/multi-level IVR, Auto attendant profiles, VIP service
<b>Dialing</b>	Speed dial, Outgoing route selection, Least cost routing, Automatic route selection
<b>Call settings</b>	Call transfer, Call forward, Do not disturb, Barge, Silent monitoring, Simplified DISA etc.
<b>DISA</b>	Authorization with calling party number, Authorization triggered by feature access code
<b>Call recording</b>	Call recording (total, on demand), Recording priority/retention priority upon insufficient storage
<b>Voicemail</b>	MWI (polarity reversed, FSK, high voltage)
<b>Analog trunk</b>	Caller ID, Polarity reversal detection
<b>SIP trunk</b>	IMS, Multiple SIP servers, Skype Connect
<b>Phone status indication</b>	Status subscription (BLF)

### Security

<b>User-defined ports</b>	SIP port, RTP port, HTTP/HTTPS port to access the Web GUI
<b>Access list</b>	IP addresses allowed to access HTTP/HTTPS/Telnet/SSH service, IP address filtering of SIP
<b>IP phone protection</b>	Prohibition on outgoing dialing by IP extensions on public network, User-Agent authentication, Registration password cracking protection

<b>Web GUI login protection</b>	Prohibition on login from public IP address, Login password cracking protection
<b>Encryption</b>	Encrypted password/PIN
<b>Security level</b>	Three levels of security settings

### Provisioning, Administration and Maintenance

<b>Device management</b>	Redstone Remote Device Management System, TR-069 management (TR-069, TR-104, and TR-106), SNMP
<b>Remote access over TCP</b>	Redstone Cloud
<b>Application interface</b>	API (XML/HTTP)
<b>Phone management</b>	Plug-and-play for IP phones, Configuration-free installation of softphone
<b>Auto provisioning</b>	Download configuration file via TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection
<b>Log</b>	8-level log management, Syslog, Internal USB flash drive (16 GB)
<b>Data capture</b>	Port capture, Packet capture
<b>Configuration</b>	Bulk import/export. Resetting to the factory default
<b>Status and statistic</b>	Call status and history, Device status monitoring and statistics collection
<b>Monitoring/alarming</b>	Status/performance monitoring or reporting. Status/performance alarms

### Other

<b>Multi-site voice</b>	Support NAT traversal, Uniform dial plan, Call forward, Call transfer. Outbound trunk sharing, Three-way calling, Attendant on remote site
<b>QoS</b>	DiffServ, TOS, 802.1p/Q VLAN tagging
<b>Internal storage</b>	Local recording, Voicemail, Customer information, User-uploaded IVR file

## Hardware

CPU	Dual core, 880 MHz
RAM	256 MB
FLASH	16 MB
Internal USB flash drive	16 GB
Weight (net)	1.2 kg
DC power input voltage	12 VDC/1.5 A
Power consumption	18 W
Mounting	Desktop, 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)