Redstone Systems

Max users: 300

Max IP extensions: 250

The REX 200-A is a versatile IP-PBX designed for high performance, ideal for enterprises with up to 300 users. It integrates voice communication, mobile office capabilities, open internet access, and intelligent management, offering diverse communication solutions tailored for industries such as government offices, enterprises, hotels, finance, and power sectors.

Meanwhile, the REX 200 features extensive API interfaces and can handle up to 4 calls per second, making it well-suited for high-traffic call centers with 50-60 seats.

Product Features

- Support the connection between ONU (optical modem) and the operator's IMS voice private network
- Supports dual Ethernet ports and dual DC/AC power redundancy.
- Supports NAT Traversal Services based on "Redstone Cloud", No public IP, port mapping, VPN or dynamic domain name is required. This allows for external network extension registration and headquarters-branch networking with a maximum of 300 access points.
- Supports built-in recording storage and external recording server storage

- Provides a centralized recording management system.
- Offers free middleware for integration with PMS.
- Open API interface for third-party system integration
- Multi-level voice navigation
- Supports Redstone's network management system and third-party network management systems (TR-069, SNMP).
- Compatible with business platforms such as Cisco CallManager, Broadsoft, Microsoft Skype for Business (formerly Lync), Huawei IMS, VoS, and Asterisk/Elastix.
- Provides 3.5kV lightning protection.

Convenient and Diverse Remote Management

REX 200-A has built-in penetration services, which easily solve the needs of enterprise external network extension registration, branch networking, remote operation and maintenance, etc. REX 80E-A can be used in conjunction with the Redstone's network management monitoring system, facilitating real-time device monitoring, alarm notifications, remote packet capture, software upgrades, and other maintenance work. In addition, it also supports docking with the operator's ITMS network management system through TR-069 and SNMP network management protocols.

All-in-One Communication Platform

When integrated with the Redstone NewLync platform, the REX 200-A enables mobile extensions, multi-party conferencing, call logging, click-to-dial, and customer information management. These features streamline communication between the enterprise switchboard, employees, and customers, while also providing valuable phone data for analyzing core business operations.

Enhancing Call Completion Rates

Set up welcome messages for incoming and outgoing calls based on working days or holidays. The duty mode automatically transfers incoming calls to the on-duty personnel's mobile phones. For VIP customers, calls are quickly transferred directly to an extension without requiring them to dial an extension number.

Reducing Office Communication Costs

Support various call methods including PC phones, IP phones, mobile softphones, and networking. Utilize broadband networks to convert international and long-distance calls into local or toll-free calls, effectively reducing the company's phone costs.

Improving Customer Contact Efficiency

Portable mobile extensions, simultaneous ringing with office landlines, call recording, voicemail, and text messaging ensure that employees never miss important business calls, regardless of the situation.

Technical Specifications

Protocol

Call Control	SIP/UDP、SIP/TCP（RFC3261）、IMS Platform（3GPP）
Network	Telnet、SSH、HTTP、HTTPS、DHCP client, PPPoE client, DNS (A/SRV records), STUN

Media

Caller ID	Multiple call display standards: Bellcore Type 1&2, ETSI, BT, DTMF
Code	G.711（a/μ）、G.729a
DTMF sending	In-band voice transmission, RFC2833, SIP INFO
Hook-Flash	Local-Problem Solving、RFC2833、SIP-INFO
Fax	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

Smart auto-attendant/ Receptionist	Business/non-business hours/holiday, Music on hold, Attendant group, Multilingual/multi-level IVR, Auto attendant profiles, VIP service
Dialing	Speed dial, Outgoing route selection, Least-cost routing, Automatic route selection
Call settings	Call hold, call dwell, call waiting, tripartite call, simultaneous ringing, differential ringing, do not disturb, forced insertion/prohibition of forced insertion, monitoring/prohibition of being monitored, secretary service, hotline (instant/delayed), proxy/prohibition of proxy, call transfer, call forwarding, call restriction, extension lock, extension, caller ID display, external transfer, etc
DISA	Calling number authentication and dialing function code authentication
Recording	Through internal storage or New Rock pbx record software
Voicemail	MWI (polarity reversed, FSK, high voltage)
Analog trunk	Caller ID, Polarity reversal detection
SIP trunk	IMS、Multi platform registration/calling, Skype Connect
Phone status indication	Status subscription (BLF)

Security

User-defined ports	SIP port, RTP port, HTTP/HTTPS port to access
Access whitelist	HTTP/HTTPS access whitelist, Telnet/SSH access whitelist, SIP access whitelist (IP filtering)
Encryption	SIP signaling encryption, media stream encryption, configuration file encryption import/export, password/PIN code encryption
IP Extension	Prohibit external IP extensions from dialing external lines, implement User Agent authentication, and prevent brute force cracking of IP extension passwords.
Web Log	Prohibition on login from public IP address, Login password cracking protection
Security level	Supports three levels: high, medium, and low

Remote Management

Network management platform	Redstone Network Management System, TR-069 Platform (including TR-069) TR-104、TR-106）、SNMP
Cloud based centralized services	Redstone Cloud
Auto provisioning	Download configuration file via TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option 66 or redirection

System maintenance and management

API	API（XML/HTTP）
Log	8-level log management, Syslog, Internal USB flash drive (32 GB)
Data capture	Port Voice capture, Packet capture
Configuration	Bulk import/export. Resetting to the factory default
Monitoring/Alarming	Status/performance monitoring or reporting

Others

Networking	Redstone NAT Traversal Network，No public IP, port mapping, VPN or dynamic domain name is required. Support: Equal dialing, call forwarding, call forwarding, outbound calls from other locations, third-party calls, remote switchboard
QoS	DiffServ、TOS、802.1p/q VLAN tagging
Internal storage	Recording, Voicemail, Historical logs, User-uploaded IVR file

Software kit

Finder	Used for searching device IP addresses within the local area network
Finder Voice file conversion tool	Converts welcome speech files and uploads them to the device.
CDR	Windows version of recording management software, providing functions such as call recording generation, query, trial listening, statistics, etc
PMSI	Support integration with hotel management systems such as China Software, Xisoft, Shenou, Zhongyu, and Qianlima

Hardware

CPU	1GHz 4 Core
RAM	512MB，DDR3
Flash	32MB
Internal storage	32GB
Max Power consumption	60W
Net weight	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
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)