REX500 IP-PBX

REX500

Max. IP extensions	400
Max. analog extensions	96
Max. IP trunks	496
Max. analog trunks	96
Max. concurrent calls	120
H×W×D (2U)	85×440×300 mm

Product models

With modular design, the capacity of REX500 can be flexibly expanded by mixing up to 4 interface cards listed below.

Interface cards

24FXS, 24FXO, 16FXS+8FXO, 12FXS+12FXO

Features

- Connected to IMS Networks via ONU
- 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
- Headquarters and branch-office communications through SIP-based tie trunks
- Mobile extensions keep you connected anywhere, at any time on any network
- 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)
- Dual-redundant Gigabit-Ethernet ports
- Dual AC/DC power supplies (optional)
- Class I lightning protection

* The Redstone Cloud is based on Amazon.

REX500 IP-PBX provides versatile solutions containing voice/video call, voice message broadcast, Fax, call recording, mobile extensions to fulfil an enterprise with 500 employees. The REX500 can connect IMS of operator, and provide multiple models with different combinations of FXO and FXS ports.

The high availability featuring primary-standby, dual-redundant Gigabit-Ethernet port and dual AC/DC power supplies allows the REX500 to be applied in many scenarios which are highly sensitive to reliability.

Always Connected with Your Customers

With features such as remote extension, call forking to your mobile phone and call-back, the REX500 assures you that wherever you are, whether in your office, traveling abroad, or working at home, you will never miss an important business call.

High Reliability

The REX500 provides high availability features including 1+1 redundancy of Gigabit-Ethernet ports and AC/DC power supplies (optional). In addition, with high availability featuring primary-standby, active-standby, as well as PSTN failover to handle the failure of the SIP proxy servers, power supply, and network, users are provided with carrier-class availability with minimized potential 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.

Multi-Site Networking, Unified Management

The peer-to-peer communication allows the REX500 to be easily accessed by remote Redstone IP-PBXs, gateways, IP phones, mobile extensions, so all extensions of headquarters and branches call each other for free and all trunks can be shared. The unified management of call recordings and call histories is achieved too.

Specification

Protocols

Call control	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP)
Network	Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, 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
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

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 transfer, Call forward, Do not disturb, Barge, Silent monitoring, Simplified DISA etc.
Call recording	Through Call Recording Management System
Voicemail	MWI (polarity reversal, FSK, high voltage)
Analog trunk	Caller ID, Polarity reversal detection
SIP trunk	IMS, Multiple SIP servers, Skype Connect
Phone status indication	Status subscription (BLF)

Security

User-defined ports	SIP port, RTP port, HTTP/HTTPS port to access Web GUI
Access list	IP addresses allowed to access HTTP/HTTPS/ Telnet/SSH service, IP address filtering of SIP
IP phone protection	Prohibition on outgoing dialing by IP extensions on public network, User-Agent authentication, Registration password cracking protection
Web GUI login protection	Prohibition on login from public IP address, Login password cracking protection
Encryption	Encrypted password/PIN
Security level	Three levels of security settings

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	8-level log management, Syslog, Internal USB flash drive (16 GB)
Data capture	Port capture, Packet capture
Configuration	Bulk import/export. Resetting to the factory default
Status and statistic	Call status and history, Device status monitoring and statistics collection
Monitoring/alarming	Status/performance monitoring or reporting. Status/performance alarms

Other

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

Hardware

CPU	1 GHz
Voice DSP module	200 MHz, 3-12 modules
RAM	256 MB, DDR3
Flash	32 MB
Internal USB flash drive	16 GB
Weight (net)	6.32 kg maximum
Single/Dual AC power supplies	100 to 240 VAC, 50/60 Hz, 2A maximum
Single/Dual DC power supplies	-36 to -72 VDC, 4A
Power consumption	110 W
Mounting	Rack
Operating	Temperature: 0 to 50°C Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)

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