

REX1000 IP-PBX



REX1000

Max. IP extensions	1000
Max. IP trunks	1000
Max. concurrent calls	200 without recording, 140 with recording
H×W×D (1U)	44×440×300 mm

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

REX1000 IP-PBX provides versatile solutions containing voice/video call, voice message broadcast, Fax, call recording, mobile extensions, to improve work efficiency and service quality of a large-scale enterprise.

The REX1000 supports up to 1000 extensions, and the capable of multi-site networking enable the extensions can be expanded to thousands, to meet the requirement of either a single site or multi-site deployment.

High Integration and Expansibility

The REX1000 is designed as a compact unit with 1U height and it is applicable to a 19 inch rack. It integrates SIP soft switch, voice codec, media processing. The REX1000 analog extensions can be expanded by connecting Redstone gateways.

High Reliability

The REX1000 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 REX1000 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.

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



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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

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)

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

Silence suppression (VAD, CNG), PLC

enhancement

Smart auto Business/non-business hours/holiday, Music on attendant/ hold, Attendant group, Multilingual/multi-level IVR, Receptionist

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.

Through Call Recording Management System Call recording

Voicemail MWI (polarity reversed, FSK, high voltage)

IMS, Multiple SIP servers, Skype Connect SIP trunk

Phone status indication

Status subscription (BLF)

Security

protection

User-defined SIP port, RTP port, HTTP/HTTPS port to access ports

the Web GUI

Access list IP addresses allowed to access HTTP/HTTPS /

Telnet/SSH service, IP address filtering of SIP

IP phone Prohibition on outgoing dialing by IP extensions

on public network, User-Agent authentication,

Registration password cracking protection

Web GUI login Prohibition on login from public IP address, Login protection

password cracking protection

Encryption Encrypted password/PIN

Three levels of security settings Security level

Provisioning, Administration and Maintenance

Device Redstone Remote Device Management System, management

TR-069 management (TR-069, TR-104, and

TR-106), SNMP Redstone Cloud

Remote access

over TCP

Download configuration file via TFTP/FTP/HTTP/ Auto provisioning

HTTPS, Obtaining ACS address via DHCP option

66 or redirection

Log 8-level log management, Syslog

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

Status monitoring/ Status/performance monitoring or reporting.

alarming

Status/performance alarms

Other

Multi-site voice Support NAT traversal, Uniform dial plan, Call

forward, Call transfer. Outbound trunk sharing,

Three-way calling, Attendant on remote site

DiffServ, TOS, 802.1p/Q VLAN tagging QoS

Media available for storing in internal storage

Local recording, Voicemail, Customer information,

User-uploaded IVR file

Hardware

Network Interface	4×10/100/1000 Mbps RJ45 ports
SD	16GB
CPU	TI AM3352
RAM	256 MB
Flash	32 MB
Net weight	3 kg maximum
Single/Dual AC	100 to 240 VAC, 50/60 Hz, 1A maximum
power supplies	
Power consumption	18 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)



(FC RoHS