

REX8000 IP-PBX



REX8000

Permitted IP Extension(s)	8,000
Permitted IP trunk(s)	8,000
Concurrent calls	800 (with call recording)
Call processing capacity	37,000 busy-hour call completions (BHCC)
Dimensions	Individual unit: 44mm × 442mm × 420mm (1U)
$(H \times W \times D)$	Dual unit stack: 88mm × 442mm × 420mm (2U)

REX8000 IP-PBX can provide a converged solution package of telecommunication (including audio calls, video calls, high-speed fax, telephone conferencing, call recording, and mobile extensions).

It satisfies the demand for a distributed network of over 10,000 extensions throughout government agencies and business groups, both of which require at least 1,000 extensions per site.

REX8000 supports access for 8,000 users with 800 concurrent calls, demonstrating its powerful call processing capacity. This outstanding performance even extends to its stability, reliability, security, expandability, configurability, and more.

REX8000 meets various telephony requirements, including deployment at a single site of large- and medium-size enterprises, as well as a multi-site telephone network of large corporations and government agencies via internet/VPN. This is made possible by supporting direct connection with carriers via SIP trunk (including IMS), or connection with the carriers or other audio private networks via digital trunk ^① or analog trunk ^②, as well as connection to analog telephones, fax machines, POS, IP phones, video phones, softphones on PCs/cellphones/PADs.

Features

Multi-functional with powerful interface

- VoIP operations, such as audio, video, fax, conferencing, and recording
- Support for SIP trunking (including IMS), digital trunking [®], and analog trunking [®]
- Various add-on services, including applications for call recording management, telephone conferencing, centralized equipment management, PMS middleware*, and attendant console system*
- Connection with third-party application systems and secondary development based on API*

Multiple redundancy/backup methods and security protection mechanism

- Dual system hot backup with switching time less than 5 seconds
- 1+1 redundancy for power supply/network port/main control card,
 N+1 redundancy for media resource card with auto load balancing
- · Encrypted signaling, media, and data transmission
- Access whitelist, external user authorization, long-distance call restrictions, and more

High performance and high stability

- Distributed architecture that configures an integrated media resource card
- · Highly responsive concurrent call processing
- Auto load balancing

Flexible deployment, easy operation, and simple maintenance

- Centralized single-site deployment and multi-site distributed network
- Centralized equipment management to ensure efficiency operation and maintenance
- · Graphical configuration interface
- Detailed alert report via telephone/email®

①Externally connected to Redstone digital VoIP gateway (1/2/4 30B+D interfaces per unit)

②Externally connected to Redstone analog trunking gateway (2 to 96 FXO ports)

③Paired with the Redstone Remote Device Management System

^{*} Available since the first quarter of 2020



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Specifications

Protocols

Call control SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP)

Network SSH, HTTP, HTTPS, DHCP client,

DNS (A/SRV record), STUN

Media Processing

Codec G.711a/u, G.729a/b, G.722, G.722.2 **DTMF** In-band audio, RFC2833, SIP-INFO

Jitter buffer. QoS

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

enhancement

Voice

Smart auto attendant/

Receptionist

Dialing

queuing, attendant group, multilingual/multi-level IVR, auto attendant profiles, VIP service, DID Call barring (5 levels), outgoing route selection, speed dial, emergency call, black/white list for outbound calling, hotline (immediate/delay),

Business/non-business hours/holiday, call

least cost routing, automatic route selection Call holding, call parking, call waiting, 3-way

calling, call forking, do not disturb, call barge, silent monitoring, secretary, call transfer, call

IMS, multiple SIP servers, Skype Connect

forward, sharing extension, hunt group, etc. DISA Authorization with calling party number,

authorization triggered by feature access code Through Call Recording Management System Call recording

SIP trunk

Call settings

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/

SSH service. IP address filtering of SIP

Encryption Encryption on SIP signaling or/and media

streams, importing and exporting encrypted

configuration file, password/PIN

IP phone protection Prohibition on outgoing dialing by IP extensions on public network, user-agent authentication,

registration password cracking protection

Login to Web GUI Prohibition on login from an IP address on public network, login password cracking protection

Security level Three levels of security settings

Call restrict Restrict total call duration, single call duration,

concurrent calls, call frequency for long distant

calls

Intrusion prevention ACL-based traffic filtering

High Availability

Dual system hot

backup Component Switching time is less than 5 seconds

port: 1+1 redundancy redundancy

Media source board: N+1 redundancy

Main control board/Power supply/Network

Provisioning, Administration and Maintenance

Device management Redstone Remote Device Management System,

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

TR-106), SNMP

Application interface API (XML/HTTP)

8-level log management, FTP backup Log Data capture Network packet capture by port mirroring

Configuration file import/export/backup

Status and alarm Status/performance monitoring, Detailed alert

report via telephone/email

Version Upgrade, rollback

Others

Multi-site voice Internal calls between extensions, call forward,

> call transfer, outbound trunk sharing, threeway calling, attendant on remote site DiffServ, TOS, 802.1p/Q VLAN tagging

QoS Internal storage Voicemail, history logs, IVR audio files(uploaded

> by users), system audio files management, configuration file backup, version rollback

Supported add-on software

Call recording management system

Comprehensive call recording search, score rating, labeling, statement generation, and other managerial operation, authorization management,

and file encryption

Telephone conferencing system

10 conferences with 128 participants

Attendant console system

Fast and convenient help desk platform that features queue calls, call transfer, and extension

status reporting

Billing system

DockPMS middleware Connectivity to Fidelio, OPERA, and other hotel

Call monitoring and billing management

PMSs, providing check-in/check-out, wakeup call, and other features

RLink softphone app

Available for iOS and Android, which enables corporate mobile extensions through the phones of individual employees via WiFi or 4G network

Hardware specifications

Single-unit frame	1 main control card, 1 fan module, 1/2 power supply module, and 4 idle slots
Media resource card	A single card supports 1,000 IP extensions, 125 concurrent calls and is hot swappable. A single-unit hosts a maximum of 4 media resource cards.
Network port	RJ45, 2×10/100/1000 Base-T, auto negotiation
CON port	RJ45
Internal storage	64GB
Dimensions (H × W × D)	Individual unit: 44 mm × 442 mm × 420 mm (1U) Dual unit stack: 88 mm × 442 mm × 420 mm (2U)
Weight(Net)	7.5kg(a fully equipped single unit)
AC power	100 to 240 VAC, 50/60 Hz, 3A maximum
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)



