

RXW-SIP300PBX

SIP Server With Management Software

The RXW-SIP300PBX is an advanced, integrated communication platform independently developed to deliver high-performance data processing and stable, reliable communication capabilities. It seamlessly integrates multiple communication functions, including public broadcasting, video intercom, video conferencing, voice monitoring, and information distribution, into a unified and efficient system.

Designed to meet the evolving demands of modern industries, the RXW-SIP300PBX provides secure, seamless, and uninterrupted connectivity, ensuring efficient communication and centralized system management. Built on a robust centralized communication architecture for SIP/IP endpoints and equipped with intelligent features, it offers a reliable, scalable, and flexible communication solution suitable for a wide range of industrial, commercial, and professional applications.



Unified Management & User Interface

- Built on a B/S (Browser/Server) architecture, enabling centralized management of all IP intercom and public address (PA) devices.
- Intuitive and user-friendly web interface with a comprehensive dashboard displaying all critical system information in real time.
- Supports creation, scheduling, and management of timed events, alarm triggers, and customizable event configurations.
- Enables seamless broadcasting system control via mobile applications, along with advanced user account management and configurable operation permissions.

Broadcasting & Communication Flexibility

- Supports multiple real-time broadcasting operations through server sound cards, audio files, terminal devices, and advanced text-to-speech functionality.
- Offers flexible user-defined call handling, including call transfer, auto-answer, and priority based call management.

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- Enables seamless uploading and management of audio files and pre-recorded announcements within a centralized media library.
- Ensures smooth integration with third-party VoIP devices via SIP trunking, providing reliable and unified VoIP communication across systems.

System Monitoring and Integration

- Comprehensive call log and event log recording with advanced query capabilities, enabling efficient system monitoring, diagnostics, and performance analysis.
- Open-standard HTTP API support with detailed documentation, allowing seamless integration with third-party systems and facilitating custom application development.

PA Functionality

- Supports one-to-one calling, group and zone announcements, emergency message playback, recorded audio, system logging, one-click all-zone broadcast, and multi-protocol integration for seamless communication.
- Designed for reliable, scalable performance, ensuring clear and instant audio delivery across all zones in both routine and emergency situations.

Hardware Requirement

Operating System Support	Windows 10 / 11 , Linux OS support
Processor (CPU)	Intel Core i5 / i7 (14th Gen) or AMD equivalent
Memory (RAM)	Up to 32 GB
System Architecture	64-bit operating system
Storage	4 TB HDD
Audio Codecs	Opus / G.711u / G.711/ G.722

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Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, DHCP
Video Coding	H.264 / H.263 / H.263+
Display Ports	DVI-D / VGA / HDMI
Hardware Grade	Industrial-grade server hardware, rack mounted design
Operating Temperature	-30°C to +60°C
Device/Endpoint capacity	Support for up to 200 devices
Management Interface	Web-based dashboard
Announcement Features	Alarm / Event / Scheduled announcements
Call Handling	Call transfer and priority settings
Media Management	Media upload facility for pre-recorded messages
Intercom / Video Call	Two-way intercom and video call functionality
Scheduling & Monitoring	Scheduling and monitoring functions
Broadcasting	Zone-based broadcasting
Background Audio	Background music playback
Power Supply	Universal power supply (100-240 VAC)
Event Logging	Event logging capability
LAN Interfaces	GbE LAN interfaces - Intel I219 and Intel I210-AT
Peripheral Ports	Multiple SATA and USB ports, USB 3.2 ports
Expansion Slots	PCIe slots - Gen 5 and Gen 4
Certifications	CE, FCC, RoHS



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USB Dongle

Application Environment:	Official (Full) Version
Validity Period	Hardware-Based USB Dongle
Activation Method	Plug-and-play via USB port on PC
License Type	Permanent License
Version	Windows-based PC Systems

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