IP Audio Center

ZYCOO IP Audio Center is the engine of ZYCOO IP Audio Solution, it is a software solution which can be installed on hardware or cloud-based servers. It has IP public address system, SIP voice/video intercom and IP PBX system modules integrated, it provides an all-in-one unified IP audio solution.

The IP Audio Center provides centralized IP audio endpoints auto provisioning and management, public address, background music, intercom, emergency Paging, audio conferencing, IP phone call and more features. It is suitable for public safety, smart city, secure community, industry, transportation, health and more application scenarios.

Feature Highlights

Unified Solution
IP Audio Center implemented the complete set of IPPBX features. Such as inbound/outbound call, call monitor, call whisper, call split, and more included. And it can be connected to ITSP or a third-party SIP server using SIP trunking.

Flexible Grouping
According to location or usage, endpoints can be grouped (zoned) to achieve zone-based live/scheduled/emergency paging, background music, and more zone-based features. IP Audio Center supports an unlimited number of groups, and users may create as many as they need.

Superior Quality Background Music
320Kbps superior quality MP3 music files and streamed media music supported, click to play music or schedule music playing can be achieved. And different music for different zones is also supported.

SIP Voice/Video Intercom
Besides the built-in HD camera on IV03 can be achieved video function, both IA03 and IV03 can be associated with external IP cameras that are RTSP supported to achieve visual intercom and video linkage features.

Live SIP Paging
Support multiple ways for live paging by dialing a single device or a group from an IP phone or a SIP microphone to initiate a live SIP paging and/or using the ZYCOO IP Audio Dispatch Console click and toggle paging.

Audio Conferencing
ZYCOO IP Audio Center supports audio conferencing, and it can manage the conference using the IP Audio Dispatch Console. Invite, mute/unmute, kick out participants options are supported.

G.722 Audio Codec Support
ZYCOO IP Audio Center, network speakers, SIP safety intercom devices, SIP paging gateways, and IP phones all support G.722 HD wideband audio codec and the Opus low-latency CELT codec. The audio quality of SIP paging, SIP intercom, and SIP phone calls is guaranteed.

Auto Provisioning and Centralized Management
Using the MQTT IoT protocol, the IP Audio Center can auto-provision, manage, and control local or remote ZYCOO IP audio endpoints within one single system.

Recording System
The IP Audio Center can automatically record SIP paging, SIP intercom, SIP phone calls, and all the recordings can be reviewed online and downloaded for archiving if required.

Multiple Dispatch User Login
The IP Audio Center supports an unlimited number of dispatch users, and the dispatch users can be associated with different groups. Therefore, each group supports more than one dispatch user login, and each dispatch user can manage more than one group.

Auto Receptionist (IVR)
Customized, the multi-level auto receptionist menu can be set up on the IP Audio Center, improves inbound call processing efficiency and caller satisfaction.

SIP/IMS Trunk and Inbound/Outbound Call Control
The IP Audio Center supports SIP and IMS trunks for integration with the ITSP or third-party SIP server, and as a result, inbound and outbound phone calls are supported.

Dial-number Task
Tasks can be preset in advance with a specific task number,and users can toggle the tasks with the task number by using an IP phone when needed.

Customized Ringtones
The IP Audio Center supports customized paging beeps by users uploading and selecting their own ringtone to play before the paging begins. All IP Audio endpoints support customized loud ringers to solve the hearing issue on phone call rings in noisy environments.

Third-party Integration
Within the standard built-in SIP protocol, IP Audio Center supports third-party SIP endpoints as well as SIP system integrations. In addition, all API interfaces of the IP Audio Center are available for integration.

More Features

- Scheduled Paging
- Automatic Paging
- Emergency Paging
- Alarm Paging
- Live Announcements/Paging
- Prerecorded Message Paging
- Text-to-Speech Paging
- Zone-based Paging
- Paging Group (Zone)
- Background Music
- Streaming Media Music
- Paging Beep
- Voice Intercom
- Video Intercom
- Multi SIP Account
- Loud Ringers
- RTSP Video Streaming

- Call Forward
- Call Transfer
- Call Spy
- Barge Spy
- Whisper Spy
- Call Split
- Wakeup Call
- Audio Conferencing
- Do Not Disturb (DND)
- In/Outbound Call Control
- Auto Receptionist (IVR)
- Customized IVR Prompts
- Video Call
- SIP Trunking
- Multicast
- Paging Beeps
- Dial-number task

- SIP Paging Recording
- Conference Recording
- Intercom Recording
- Call Recording
- System Logs
- Call Logs
- Volume Control
- Multiple Dispatch User
- Multisite Support
- Endpoints Status Monitoring
- Centralized Management
- Device Fault Report
- Device Location Mark
- API Support
- P2P
- External Music Collection
- SIP NAT

Specifications

Number of IP Audio Endpoints	4000 (Max)
Number of Paging Groups (Zones)	Unlimited
Number of MP3 Audio Files	Unlimited
Number of Playlists	128 (Max)
Number of Timetable Triggered Paging Tasks	Unlimited
Number of Number Triggered Paging Tasks	Unlimited
Number of SIP Concurrent Calls	500 (Max)
Number of Simultaneous Conference Attendees	500 (Max)
Number of Simultaneous SIP Paging Speakers	500 (Max)
Recording Time	Unlimited (Wav format, 1MB/min)

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