IP Network Active Speaker T- 8807AAB

Embedded software: IP active speaker sound reinforcement software V2.01

Description

IP network speakers are suitable for places such as regular classrooms, multimedia classrooms, offices, meeting rooms, prisons, hospital departments, and subways. They are used to play reminder announcements or background music programs. Additionally, they can also be used for local broadcasting and amplification.

Features

*The speaker adopts a professional integrated wall-mounted speaker design. The structure of the whole machine is very solid and the cabinet conforms to the design concept of sound resonance principle.

*Built-in microphone, supports audio detection, supports collecting and detecting audio frames, network packet loss rate, maximum frame spacing, link crossing points and other data, and analyzes playback status and audio recognition, and uploads it to the background, supports exporting reports.

*It has 1-channel line (AUX) input interface, supports network volume adjustment, and supports local sound amplification function when disconnected from the network.

*The wireless audio module can be expanded to realize local sound amplification with wireless microphone. The Bluetooth receiver can be expanded to receive Bluetooth audio for local sound amplification.

*It has 1-channel short-circuit input interface. It supports software customization to realize alarm triggering media library music playback or volume adjustment function.

*It has 1-channe 100V constant voltage signal backup input interface, which switches to the backup channel when the machine is not connected to the network to avoid crosstalk between the local signal and the backup signal.

*Supports network and analog 100V main and standby switching functions. Supports automatic switching to the analog 100V constant voltage backup line when power is off or the network is disconnected. The delay of the hearing backup switching is less than 0.03 seconds. There is no delay, no lag, no dropout during the switching process, and it does not affect the normal broadcast; when the network and power supply return to normal, it automatically switches to the main channel. The switching time is less than 0.03 seconds. There is no delay, no lag, no dropout during the switching process, and it does not affect the normal broadcast.

*The main speaker has a built-in 2×20W (MAX) dual-channel Class D digital power amplifier, and one channel is connected to the sub-speaker, adopting a high and low frequency division design; the sound quality is delicate and the power is strong; it has a network volume setting.

*Built-in network audio decoding module, supports mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, OPUS, etc., and is compatible with the full sampling rate of 8kHz-48kHz.

*Built-in DSP audio processing, supports ultra-low latency digital mixing, and 10-band EQ equalization configuration.

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*Built-in 3-level priority settings: (1) Network alarm signal takes priority over AUX and network background music signal and 100V analog backup signal. (2) Network background music signal and local audio input can be prioritized by the user as needed
*(3) The 100V analog backup signal has the lowest priority.
*Supports remote firmware upgrades and performs maintenance on terminal devices through the network, effectively reducing the workload of maintenance personnel.
*The system uses a data redundancy encoding and decoding algorithm and supports anti-packet loss recovery function. When the network packet loss rate is 37.5%, the audio playback is smooth.
*The end-to-end delay of the system playing collected audio is less than 5ms.

Specification

Network interface	Standard RJ45 input
Transfer rate	100Mbps
Supported agreement	TCP/IP, UDP, IGMP, ICMP
Audio format	Supports mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, OPUS, etc.
Audio mode	16-bit CD-quality sound
Sampling rate	8kHz-48kHz
Auxiliary line input level	350mV Industrial standard 3.81mm crimping terminal block
Frequency response	80Hz-16kHz (+1dB/-3dB)
Harmonic distortion	≤1%
Signal-to-noise ratio	≥68dB
Output power	2×20W (MAX)
Maximum sound pressure level	90dB
Sensitivity	80dB
Power consumption	24W
Short circuit input	Dry contact input, industrial standard 3.81mm crimping terminal
Operating temperature	5℃ ~ 40℃
Working environment humidity	20% ~ 80% relative humidity, no condensation
Input power	DC12V/2A
Main box net weight	1.9kg
Net weight of auxiliary box	1.4kg
Dimensions (L x W x H)	135×130×250mm