WEP5510

Cloud PA Indoor Network Speaker

Description

This device is a professional broadcasting device that combines a fully digital network analog-to-digital signal processor with a high-fidelity speaker based on TCP/UDP transmission protocols. It integrates line input/output, Bluetooth audio decoding, network audio decoding, signal amplification, and supports wired network and 4G/5G/WiFi wireless transmission methods. The device employs DSP digital audio processing technology combined with an ARM core main control unit and high-reliability signal encryption technology to prevent unauthorized broadcasting. It supports one main network speaker with one passive sub speaker and includes a built-in wireless 4G/5G module that is compatible with Mobile, Unicom, and Telecom networks.
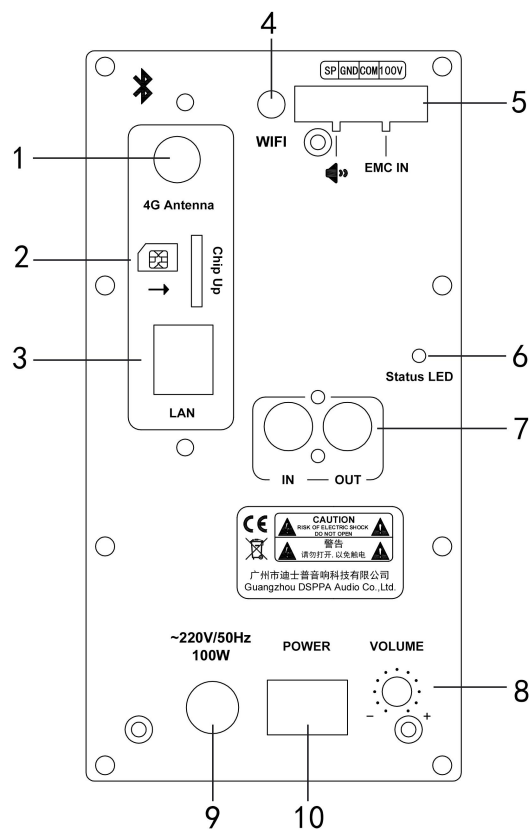
Features

- An indoor network speaker with an integrated design that combines a network terminal processor with a high-fidelity speaker.
- Multiple network access methods: wired IP, 4G/5G wireless network, WiFi network, capable of working across network segments.
- Can be connected anywhere network access is available.
- With Bluetooth decoding and playback function (with an internal reserved MP3 playback interface).
- Support up to 48kHz sampling rate and 16-bit digital audio stream decoding.
- Built-in dual-channel high-fidelity digital amplifier; one main speaker can drive one passive sub speaker, with low power consumption.
- Capable of playing background music, emergency paging, alarm signals, etc., from the cloud platform.
- With one auxiliary audio input, one auxiliary audio output, one 100V emergency audio source input, and one sub speaker output.
- With working status indicator light for easy fault diagnosis.
- With a unique physical code (non-rewriteable) and a remotely modifiable resource code.

- With power-on broadcast volume fade-in function, with continuous volume adjustment for daily broadcasts and fixed volume for emergency broadcasts.
- With remote Web management function for setting IP address, server address, reception frequency, and resource coding parameters.
- Support remote configuration of operational parameters via management platform.
- Support zone-based broadcasting and volume control.
- With protection features for amplifier output short circuits, amplifier overheating, and overload conditions.
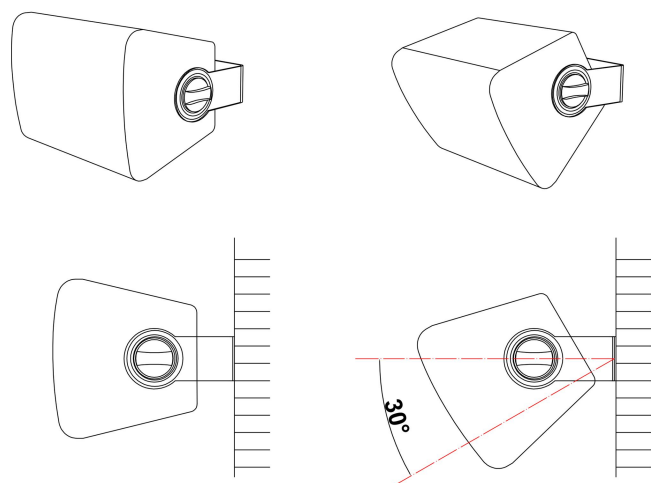
Specifications

Model		WEP5510
Power Parameters and Communication Section	Power	15W/8Ω
	Frequency Response	120Hz-12.5kHz
	S/N Ratio	≥75dB
	Harmonic Distortion	≤0.5% (1KHz)
	WIFI Connection	Support a/ac/b/g/n protocol
	1 IP Input	100/1000Mbps, UDP protocol
	4G/5G Module	Universal network compatibility
Network Audio Decoding	Decoding or Encoding	MPEG-1 Layer 2
	Sampling Rate	48KHz
	Sampling Accuracy	24-bit
	Bit Rate	64Kbps
	Valid Frequency Range	140Hz~14kHz
	Maximum Sound Pressure Level	102dB
Power Supply Section	Standby Power Consumption	≤0.5W
	Full Load Power Consumption	≤50W
	Voltage and Frequency	AC220V/50Hz
Dimensions	Speaker Dimensions	249*184*168MM
	Package Dimensions	564*243.5*335MM

Rear Panel

1. 4G antenna connector (SMA female).
2. SIM card slot (micro SIM). Please insert according to the silk-screen direction.
3. Network port RJ45, connected to a wired network.
4. WIFI antenna connector (SMA female).
5. 5.08mm green connector 4P (SP and GND are speaker output terminals for the sub speaker; COM and 100V are emergency audio source input terminals).
6. Working status indicator: Steady light indicates broadcast status (line, Bluetooth, network broadcast); quick flash indicates 100V emergency audio source input; slow flash indicates standby mode.
7. Auxiliary line audio input/output (RCA connector).
8. Master volume knob, which only adjusts the volume for line and Bluetooth input broadcasts.
9. Power input AC220V/50Hz/100W.
10. Main power switch.

Installation Diagram

Select an appropriate position on the facade to install two screws for the column speaker. Attach the bracket as shown in the diagram and secure the speaker. If necessary, adjust the angle of the bracket to position the speaker up or down.