

IPS-C1

Network Ceiling Speaker

Product Datasheet



Features

- Supports connection of one APS-C1 extension
- Integrated attachment points for safety cables & secondary securing
- Supports zone paging & notifications
- Built-in microphone design for talkback
- AGC automatically adjusts volume based on ambient noise
- ONVIF compatible
- PoE/PoE+ enabled
- Configure and control via web UI
- SIP supported
- Compatible with ZYCOO IP Audio Center and other third-party IP-PBX systems
- Support for three SIP lines
- Multicast and P2P supported
- Flexible API

Description

The ZYCOO IPS-C1 Network Ceiling Speaker is a SIP-enabled, IP-based audio endpoint engineered to deliver high-quality live paging, public announcements, background music, and emergency notifications. Leveraging industry-standard SIP and multicast technologies, the IPS-C1 provides reliable, crystal-clear audio performance across a wide range of indoor environments.

The IPS-C1 can function as a standalone network speaker with up to 16 watts of integrated audio output or be paired with a ZYCOO APS-C1 Extension Ceiling Speaker to expand coverage without requiring additional network connections. This flexible architecture reduces network cabling, minimizes PoE/PoE+ switch port requirements, and lowers overall installation costs while simplifying system deployment.

Ideal for schools, healthcare facilities, commercial offices, retail stores, hospitality venues, and other public spaces, the IPS-C1 delivers dependable, intelligible audio for everyday communications as well as critical emergency notifications, ensuring important messages are heard when they matter most.

Specifications

Power Input	PoE / PoE+(IEEE 802.3af/at) or external DC power supply (24V / 2A)
Power Consumption	DC: 18 W(standalone), 34 W(with extension speaker) PoE+: 18 W(standalone), 18 W(with extension speaker) PoE: 12 W(standalone), 12 W(with extension speaker)
Amplifier Type	Class-D
Speaker Component	6.5" Woofer Driver Unit + 1.5" Tweeter Driver Unit
Audio Power	DC: 16W (standalone), 2 x 16W (with extension speaker) PoE+: 16W (standalone), 2 x 8W (with extension speaker) PoE: 10W (standalone), 2 x 5W (with extension speaker)
Speaker Sensitivity	87dB/1m/1W
Max Sound Pressure Level	DC: 97 dB(standalone), 2x97 dB(with extension speaker) PoE+: 97 dB(standalone), 2 x95 dB(with extension speaker) PoE: 95 dB(standalone),2x92 dB(with extension speaker)
Frequency Response	70Hz ~ 20kHz
Microphone Sensitivity	-38±2dB
Audio Stream	MP3 Sampling Rate 8~48KHz, Bit Rate 64~320kbs, Mono or Stereo
Network Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, PTP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
Ports	RJ45 Network(10/100Mbps Adaptive), RJ45 Ext.Speaker, 2-Pin Connector External Power, 3-Pin Connector Dry Contact Output,2 x 2-Pin Connector Input
Mounting	Cables or Ceiling Tile
Material	Plastic&Metal
Regulatory	FCC PART-15B sDoC EMC ETSI EN 301489-1 V2.2.3 (2019-11) ETSIEN 301 489-3 V2.3.2 (2023-01) ETSI EN 301 489-17V3.3.1 (2024-09) EN55032:2015+A11:2020 EN55035:2017+A11:2020 ENIEC 61000-3-2:2019+A2:2024 EN 61000-3-3:2013+A2:2021 EN IEC62368-1:2024+A11:2024

Specifications

Dimensions	Ø226mm*199mm
Weight	5.51lbs, 2.5kg
Operating Temperature	-20°C~ 50°C (-4°F ~ 122°F)
Storage Temperature	-40°C~70°C (-40°F ~ 158°F)
Humidity	10%~95% RH (non-condensing)
Warranty	24 months

Application



Healthcare



Education



Industry/Commercial



Transportation

A&E Specification

The ZYCOO IPS-C1 network ceiling speaker shall be a self-contained, SIP-enabled IP audio endpoint designed for live paging, emergency notifications, scheduled announcements, and background music. The unit shall integrate a network audio decoder, Class D amplifier, loudspeaker assembly, microphone, and control electronics into a single ceiling-mounted enclosure. The speaker shall operate as a standalone IP speaker or support connection of one extension ceiling speaker to increase coverage while utilizing a single network connection. The speaker shall incorporate a high-efficiency Class D audio amplifier. The loudspeaker assembly shall consist of a dedicated woofer driver and tweeter driver to provide wide frequency response and high speech intelligibility. Minimum performance shall include Speaker sensitivity of 87 dB (1 W/1 m), maximum sound pressure level of 99 dB, frequency response of 70 Hz to 20 kHz. Output power shall be 16 W standalone, 2 × 16 W when driving one extension speaker on external power, 16 W standalone, 2 × 8 W with extension speaker on PoE+ (IEEE 802.3at) power, and 10 W standalone, 2 × 5 W with extension speaker on PoE (IEEE 802.3af) power. The unit shall support playback of live paging, multicast audio streams, emergency notifications, prerecorded messages, and background music.

The speaker shall include an integrated microphone suitable for remote monitoring, audio verification, or intercom applications. The microphone sensitivity shall be -38 ± 2 dB. The device shall support MP3 audio streaming with sampling rates from 8 kHz to 48 kHz, bit rates from 64 kbps to 320 kbps mono and stereo audio. The speaker shall be a native IP endpoint supporting SIP communications without requiring proprietary gateways. The unit shall support the following network protocols SIP (RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, PTP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH. The speaker shall support multicast audio transmission and reception. The speaker shall operate from either IEEE 802.3af Power over Ethernet (PoE), IEEE 802.3at Power over Ethernet Plus (PoE+) External DC power supply. The speaker shall automatically operate using the available power source. The unit shall provide the following ports one RJ45 network port, one RJ45 expansion speaker port, one two-pin connector for external power, one three-pin dry contact, two two-pin contact input. The completed installation shall provide uniform audio coverage suitable for educational facilities, healthcare facilities, commercial offices, hospitality venues, retail environments, and other public buildings. Any speaker that does not offer these capabilities shall not be considered.

All information contain within is subject to change without notice.