

IPS-H1

Network Horn Speaker

Product Datasheet



Features

- Supports linking one APS-H1 Extension Horn
- Attachment points for safety cables
- Up to 20 Watts of high-quality audio
- Built-in microphone for talkback
- Two-way intercom
- AGC adjusts volume based on ambient noise levels
- Compatible with VC-Z01 Network Volume Controller
- ONVIF compatible
- Supports PoE/PoE+/Direct
- Configure and control via web UI
- Can be integrated with ZYCOO IP Audio Center or third-party IP-PBX systems
- Three SIP account lines supported
- Multicast and P2P supported
- Flexible API

Description

The ZYCOO IPS-H1 Network Horn Speaker is an IP-based audio communication endpoint designed for live paging, public address, background music, and emergency notifications. Utilizing SIP and multicast technologies, the IPS-H1 delivers powerful, clear, and intelligible audio for both indoor and outdoor applications.

The IPS-H1 operates as a standalone network horn speaker with up to 20W of audio output or can be paired with a ZYCOO APS-H1 Extension Horn Speaker to provide expanded audio coverage. This flexible deployment option can reduce network cabling requirements, PoE switch port usage, and overall installation costs.

Its high-efficiency horn design provides excellent sound projection and speech intelligibility over extended distances, making the IPS-H1 particularly well suited for open, large, and noisy environments where clear communication is essential.

The IPS-H1 is an ideal solution for schools and campuses, factories, warehouses, transportation facilities, parking areas, industrial sites, and other public spaces. It provides reliable, high-quality audio for everyday announcements, paging, background music, and critical emergency communications.

Specifications

Power Input	PoE / PoE+(IEEE 802.3af /at) or external DC power supply (24V / 2A)
Power Consumption	DC: 22 W(standalone), 42 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	1.5" Midrange Driver Unit
Audio Power	DC: 20 W(standalone), 2x20 W(with extension speaker) PoE+: 16 W(standalone), 2x8 W(with extension speaker) PoE: 10 W(standalone), 2x5 W(with extension speaker)
Speaker Sensitivity	105dB/1m/1W
Max Sound Pressure Level	DC: 108 dB(standalone), 2x108 dB(with extension speaker) PoE+: 107 dB(standalone), 2 x104 dB(with extension speaker) PoE: 105 dB(standalone),2x102 dB(with extension speaker)
Frequency Response	400Hz ~ 8kHz
Microphone Sensitivity	-38±2dB
Audio Stream	MP3 Sampling Rate 8~48KHz, Bit Rate 64-320kbps, 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 port, 2-Pin Connector External Power, 2-Pin Connector Dry Contact Output, 2 x 2-Pin Connector Input
Mounting	Wall-mount and Ceiling-mount Installation
Material	Anti-rust Treated 1060 Pure Aluminum
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 IP66

Specifications

Dimensions	Ø218mm*265mm
Weight	3.3lbs, 1.5kg
Operating Temperature	-20°C~ 70°C (-4°F ~ 158°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

Provide IP-based network horn speakers for paging, public address, background music, emergency notifications, and general audio communication applications. The network horn speaker system shall provide audio communication over an Ethernet network using SIP and multicast technologies and shall be suitable for indoor and outdoor installations. The network horn speaker shall operate as a standalone network audio endpoint or support connection to an extension horn speaker for expanded audio coverage.

The network horn speaker shall be a self-contained IP audio endpoint incorporating class-D audio amplification, high-efficiency horn speaker assembly, network interface, SIP-based audio communication, multicast audio capability, local microphone, dry contact output, switch input, and a connection for an extension horn speaker. The network horn speaker shall support operation from Power over Ethernet or external DC power. The speaker shall provide a minimum audio output capability of 20 watts when operated from external DC power. The speaker shall support connection of an extension horn speaker, permitting a single network endpoint to provide audio to two horn speakers. Components shall be designed for continuous operation within the specified environmental operating temperature and humidity ranges.

The amplifier shall be a Class-D and shall have a maximum audio power, from external DC power, of 20 Watts when standalone. The maximum audio power output, when on a PoE+ supply shall be 16 watts. The maximum audio power output, when on a PoE supply shall be 10 watts. The speaker sensitivity shall be 105 dB at 1 m / 1 W. The frequency response shall be 400 Hz to 8 kHz. Speaker construction shall utilize a high-efficiency horn design optimized for sound projection and speech intelligibility over extended distances. The microphone sensitivity shall be -38 ± 2 dB. The SIP audio codecs shall include G.722, G.711 A-law, G.711 U-law, Opus. Audio streaming shall support MP3. The supported network and communication protocols shall include SIP (RFC 3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, PTP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, and SSH.

The speaker chassis shall be constructed of 1060 pure aluminum with anti-rust treatment. Construction shall be suitable for the specified operating environment and intended indoor and outdoor audio communication applications.

Products not including the features listed shall not be considered.

All information contain within is subject to change without notice.