Datasheet

PAS-NHS30 | Network PoE Horn Speaker 15/20/30 Watt



Key features

- Dual-Core Processor: Efficient ARM and DSP technologies for reliable audio.
- Audio Encoding: Supports narrowband (G.711a/u) and broadband (G.722) for clear paging.
- Multicast Support: 10 addresses for multiple SIP phone paging.
- Compatibility: SIP and ONVIF support enabling registration to third-party monitoring platforms with live announcements and built-in mic monitoring.
- Installation: PoE, PoE+ and DC Power enabled.
- Dynamic Volume Control: Adjusts to ambient noise.
- Audio Playback: Background music, emergency pages, and alarms.
- Remote Management: Online upgrades and remote control.
- Two-Way Communication: Interacts with SIP telephones and intercoms..

Product Overview

The Macsys PAS-NHS30 Network PoE Horn Speaker is engineered to deliver exceptional audio performance and versatile connectivity for networked environments. It features a high-speed dual-core processor combining ARM and DSP technologies, ensuring efficient and reliable audio processing. The speaker supports both narrowband (G.711a/u) and broadband (G.722) encoding, which guarantees clear and intelligible voice paging.

Equipped with 10 multicast addresses, the PAS-NHS30 can receive paging from multiple SIP phones, helping to conserve SIP account resources. It integrates seamlessly with major SIP PBX systems such as Yeastar, Asterisk, and Cisco, and supports the Onvif protocol for compatibility with third-party monitoring systems. For flexible installation, the speaker is compatible with PoE and PoE+.

In terms of audio management, the PAS-NHS30 features dynamic volume control that adjusts automatically to ambient noise levels. It is also capable of playing background music, emergency pages, and alarm signals through the Macsys management system. Additionally, it offers remote management and online upgrading capabilities, and supports two-way communication with SIP telephones or intercom devices for enhanced interactive functionality. With IP65 protection, wall-mount installation, it suits outdoor and wet environments when properly installed.

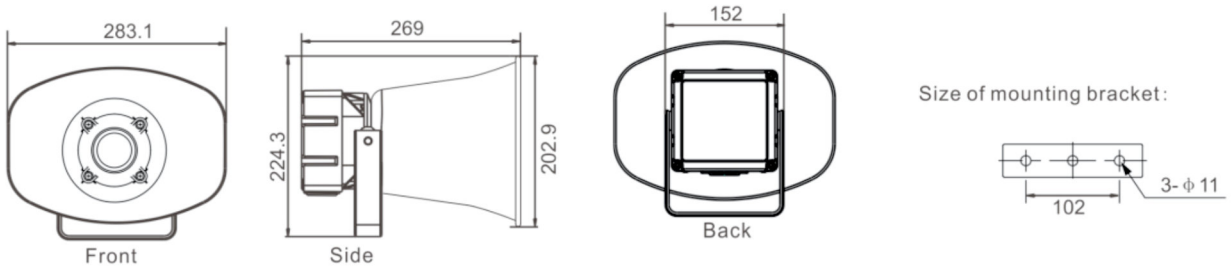
Technical Specification

Feature	Details
Device	30watt Network POE Horn Speaker
Protocol compliance	SIP compliant, multicast-capable
Processor	High-speed industrial-grade dual-core (ARM+DSP)
Audio codecs	G.711A-law, G.711μ-law, G.722
Voice bandwidth	Narrowband (G.711a/u) and broadband (G.722)
Multicast support	10 multicast addresses; multicast scalable function
SIP integration	Standard SIP; integrates with SIP PBX
ONVIF compatibility	Supported for third-party monitoring systems
Audio functions	Background music, emergency paging, alarm playback via Central Software
Volume control	Dynamic volume auto-adjusts to ambient noise
Power options	DC 24V/2.7A, PoE (IEEE802.3af), PoE+ (IEEE802.3at)
Standby consumption	≤3W
Rated power output	30W (@DC 24V/2.7A powered); 15W (@PoE powered); 20W (@PoE+ powered)
Sensitivity	105dB±3dB (1W, 1m)
Maximum SPL	120dB±3dB
S/N ratio	≥80dB
Sampling rate/bitrate	8kHz~44.1kHz, 16bit, 8kbps~320kbps
Frequency response	350Hz~7kHz
Network interface	10BASE-T/100BASE-TX RJ45
Network protocols	SIP (RFC3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Configuration	Web Interface or Config Tool
Ports	Network Port; Reserved Port (1,2 Alarm Input; 3,4 Audio Input); Power Port
Input interface	2-Pin Pluggable Terminal Block (3.81mm Pitch, AWG 26-16)
Output interface	2-Pin Pluggable Terminal Block (3.81mm Pitch, AWG 26-16)
I/O functions	Relay Input (NO Dry Contact); Relay Output (NO/NC Dry Contact); Unbalanced Aux Input; Unbalanced Aux Output; DC 24V/2.7A Power Input
Paging options	SIP calls; multicast paging; IP Paging Console

PAS-NHS30 | Network Horn Speaker 15/22/30 Watt

Feature	Details
Two-way audio	Two-way communication with SIP telephones or intercom devices
Remote management	Remote management and online upgrading
Environment	Outdoor & Wet Environments When Properly Installed
Mounting	Wall/Poll mounted
Ingress protection	IPX5, IP65
Operating temperature	-20°C~+50°C (-4°F~122°F)
Operating humidity	10%~90% RH non-condensing
Body material	ABS Composite Plastic
Housing material	Surface-Treated Steel Plate
Color	Off-White
Dimensions	283.1x269x224.3mm
Weight	2.0KG
Certifications	CE, RoHS Compliance.

Dimension



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