Datasheet

PAS-NCS20 | Network PoE Ceiling Speaker 20 Watt



Key features

- 20W SIP-compliant PoE ceiling speaker with multicast paging support.
- High-speed dual-core ARM+DSP processor for stable audio performance.
- Supports G.711A-law, G.711μ-law, and G.722; 8kHz–44.1kHz, 16-bit; 8kbps–320kbps.
- Dynamic volume control with background music, emergency paging, and alarm support via management system.
- Flexible power options: DC 24V, PoE (15W), or PoE+ (20W).
- Auxiliary I/O and relay interfaces with dry-contact support.

Product Overview

The Macsys PAS-NCS20 is a 20W Network PoE Ceiling Speaker designed for seamless indoor public address and notification applications. SIP-compliant and multicast-capable, it integrates smoothly with VoIP systems to deliver background music, emergency paging, and alarms through centralized management. Powered by an industrial-grade dual-core ARM+DSP processor, it ensures clear communication with support for both narrowband (G.711a/u) and broadband (G.722) codecs. Offering flexible power options via DC 24V, PoE, or PoE+, the speaker also supports remote management, online upgrades, and dynamic volume adjustment based on ambient noise. Its ceiling-mounted design with web or tool-based configuration over Ethernet makes it an efficient and reliable choice for dry indoor environments.

Techinical Specification

Feature	Details
Product	20 Watt Network PoE Ceiling Speaker
Processor architecture	High-speed industrial-grade dual-core (ARM+DSP) chip
Voice codecs	G.711A-law, G.711μ-law, G.722
Sampling & bit rate	8kHz~44.1kHz, 16bit, 8kbps~320kbps
SIP/multicast handling	Supports receiving paging from SIP phones through 10 dedicated multicast addresses; multicast scalable function
SIP compatibility	Fully compatible with standard SIP protocols; integration with SIP PBX systems
Audio functions	Background music, emergency paging, alarm signals from management system
Adaptive loudness	Dynamic volume control based on ambient noise
Power input options	DC 24V/1A, PoE (IEEE802.3af), PoE+ (IEEE802.3at)
Standby consumption	≤3W
Rated power output	20W (@DC 24V/1A powered); 15W (@PoE powered); 20W (@PoE+ powered)
Sensitivity	88dB±3dB (1W, 1m)
Max SPL	97dB±3dB
S/N ratio	≥80dB
Frequency response	100Hz~18kHz
Network interface	10BASE-T/100BASE-TX RJ45
Supported protocols	SIP (RFC3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Configuration methods	Web Interface or Config Tool
Mounting style	Ceiling-mounted
Environment rating	Dry Indoor Locations Only
Operating temperature	-20°C~+50°C (-4°F~122°F)
Operating humidity	10%~90% RH non-condensing
Enclosure material	ABS Composite Plastic
Color	Off-White
Product size	φ213x165mm
Product weight	1.4KG
Included accessories	1×2-Pin Pluggable Terminal Block Connector (3.81mm Pitch,AWG 26-16); 1×Waterproof Joint

Techinical Specification

Feature	Details
Input interface options	Relay Input (NO Dry Contact); Unbalanced Aux Input
Output interface options	Relay Output (NO/NC Dry Contact); Unbalanced Aux Output
Management	Remote management and online upgrading
Certifications	CE, RoHS compliance

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