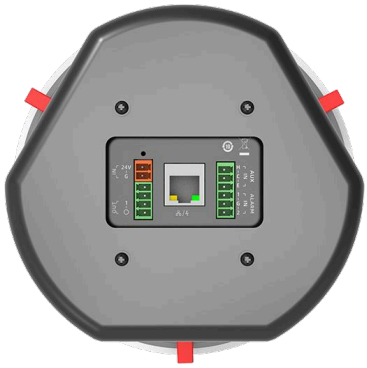
GEN-6212A01 Network Ceiling Speaker





Bluetooth SIP POE Multicast

INTRODUCTION

GEN-6212A01 is a DC/PoE-powered network ceiling speaker that supports SIP phone and VMS calls, up to 20 multicast streams, storage for 20 audio files, priority management, scheduled playback, and HTTP API-triggered custom actions, making it ideal for schools, shopping malls, hotels, and other public address applications.

MAIN FEATURES

- **Multi-Source Audio Reception:** Supports reception of SIP audio, ONVIF audio, and multicast streams.
- **Local Audio Storage:** Built-in 80 MB local storage for up to 20 WAV/MP3 audio files.
- **Audio Input:** Provides one audio input with MIC/LINE selectable via the web interface.
- **Control I/O:** Provides two control inputs and one control output, with support for 12 V DC output.
- **HTTP API Trigger:** Supports HTTP API for triggering local file playback.
- **Scheduled Playback:** Built-in scheduler for timed playback of local audio files.
- **Flexible Power Supply:** Supports PoE / PoE+ and DC power supply.

PARAMETERS:

Network Interface	10/100Base-TX, RJ45
PoE	IEEE 802.3af/at
Power Input	1 × DC 24 V
Network Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, ARP, ICMP, NTP, SIP, ONVIF, DHCP
Configuration	Web interface or DevConfig Tool
Audio Transmission	Multicast, up to 20 streams (editable)
Audio Codec	Opus, PCMU (G.711u), PCMA (G.711a), G.722
Audio File Format	WAV, MP3
Audio Storage	80 MB local storage, up to 20 audio files
Audio Stream	WAV 8/16/22/44.1/48 kHz, 8/16-bit, mono/stereo; MP3 32/44.1/48 kHz, 64–320 kbps, CBR/VBR, mono/stereo
Audio Input	1 × Line/MIC input, balanced, switchable
Input Sensitivity	-10 dB (Line), -20 dB (MIC)
Frequency Response	100 Hz to 18 kHz
SNR	⩾85 dB
Amplifier	Built-in Class-D amplifier
Rated Power	15 W (PoE/PoE+), 20 W (DC 24 V)
Speaker Component	4" woofer + 0.5" tweeter
Sensitivity	89 dB (1 m / 1 W / 1 kHz)
Max. SPL	101 dB (1 m / 20 W / 1 kHz)
Coverage Pattern	884 Hz H235° / V235°; 1.77 kHz H95° / V95°; 3.54 kHz H64° / V64°; 7.07 kHz H62° / V62°
Control Input	2
Control Output	1 × relay output / 12 V DC output, switchable
Reset Button	1
Microphone	Electret condenser microphone
Directionality	Omnidirectional
Microphone Installation	Built-in
Microphone Sensitivity	-45 ± 3 dB
Microphone SNR	58 dB
Max. Input Sound Level	110 dB (THD < 1%)
Housing Material	Iron, ABS
Color	Off-white (grille) + black (housing)
Mounting	Recessed installation
Application Environment	Indoor
Operating Temperature	-30°C to +60°C

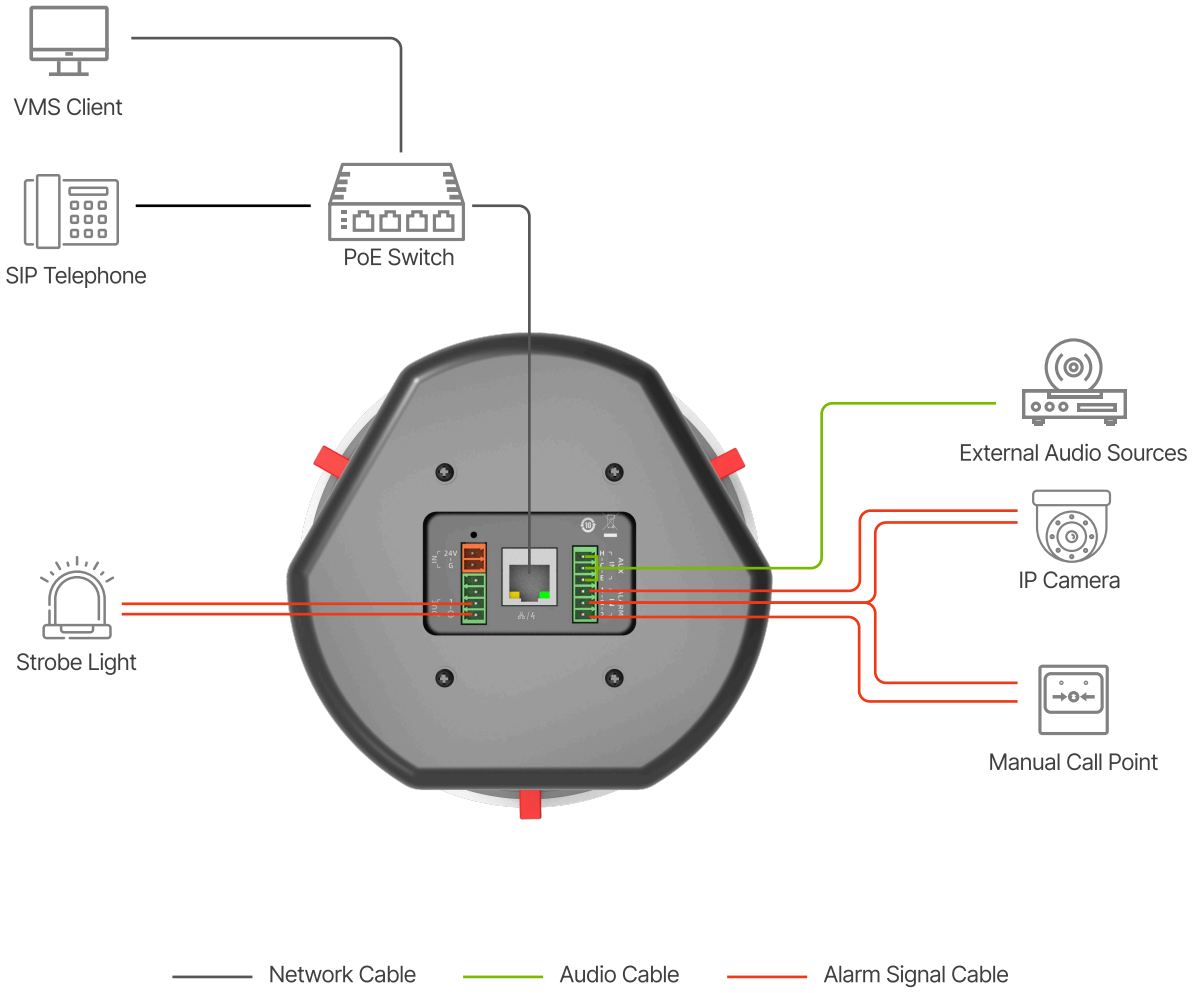
PARAMETERS:

Operating Humidity	≤90% RH, non-condensing
Dimensions	Φ204 × 167 mm
Package Dimensions	270 × 260 × 245 mm
Cutout Dimension	Φ180 mm
Weight	1.9 kg
Warranty	2 Years

ACCESSORIES:

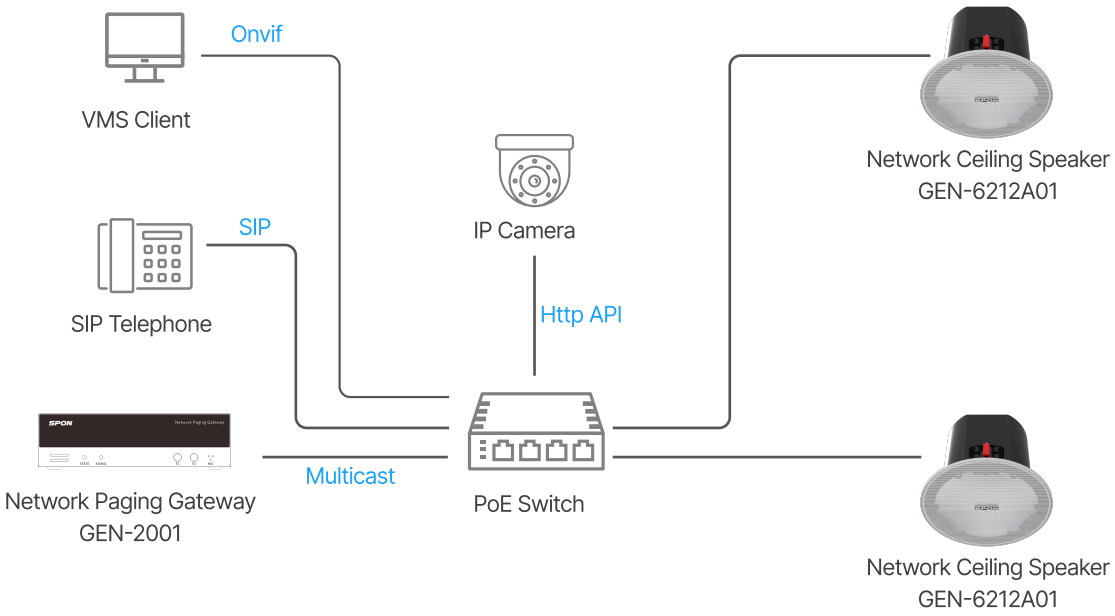
ACCESSORIES	1 × 2-pin terminal (3.81 mm) 1 × 4-pin terminal (3.5 mm) 1 × 6-pin terminal (3.5 mm) 1 × Power adapter (DC 24 V / 1 A, optional)

CONNECTION DIAGRAM



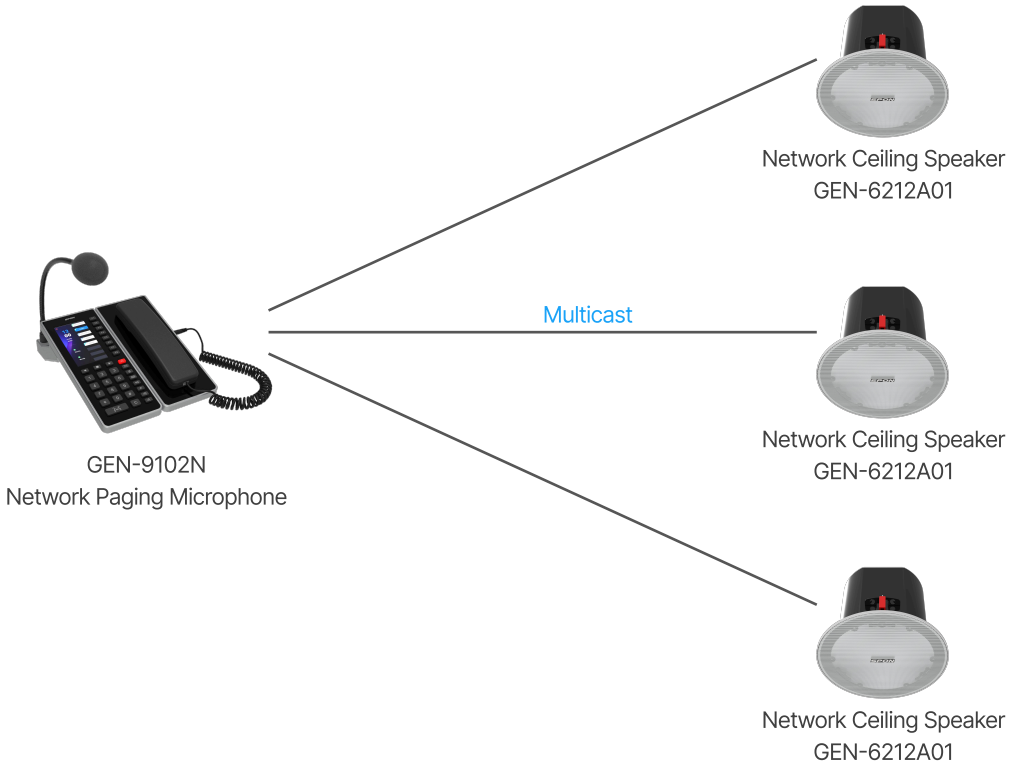
APPLICATION 1

The GEN-6212A01 Network Ceiling Speaker adopts standard industrial audio communication protocols and supports receiving audio streams via SIP, ONVIF, and multicast. The terminal features multiple I/O control interfaces (2 alarm inputs, 1 output) and supports HTTP commands, facilitating integration with third-party systems.



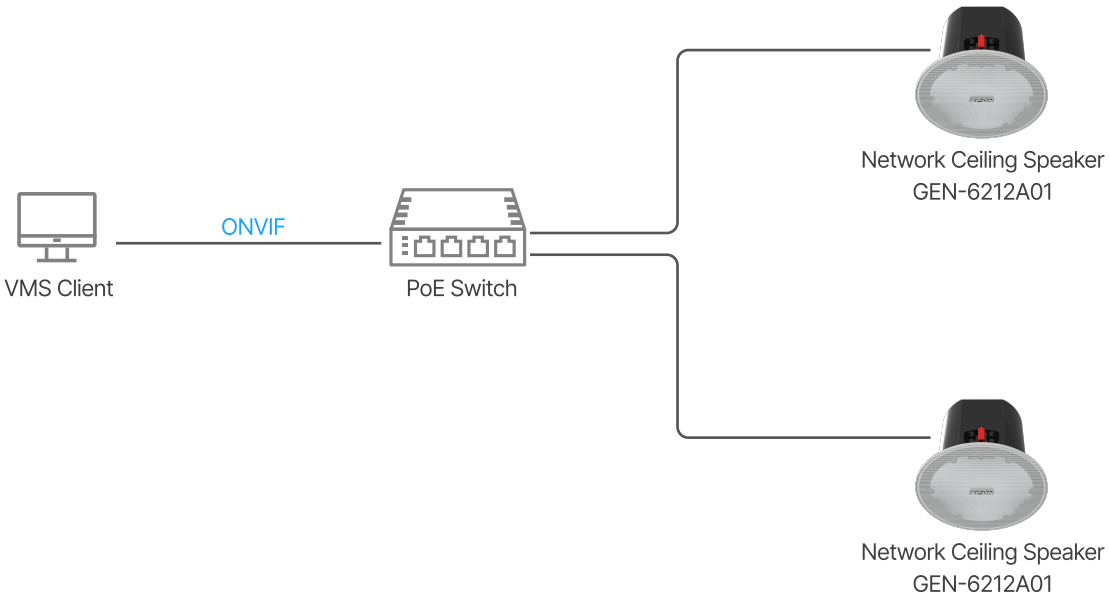
APPLICATION 2

The Network Ceiling Speaker GEN-6212A01 support paging from SIP phone by using multicast address, the multicast address and priority can be set on its webpage .

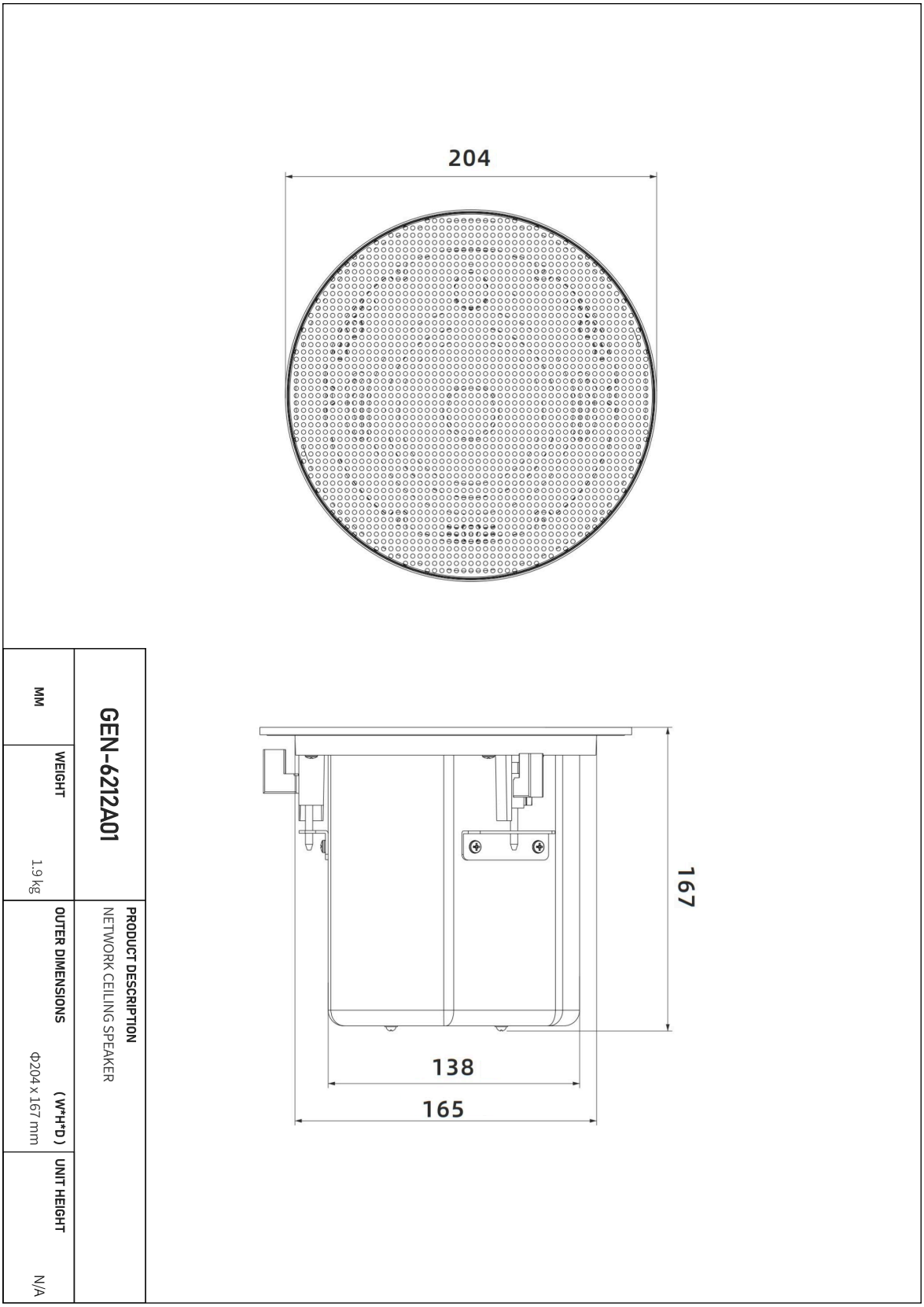


APPLICATION 3

The Network Ceiling Speaker GEN-6212A01 supports ONVIF protocol and can be registered to a third-party monitoring system. In an emergency, the operator can directly make a live announcements to the speaker on the monitoring platform.



DIMENSION



GEN-6212A01	
WEIGHT	1.9 kg
MM	
PRODUCT DESCRIPTION	NETWORK CEILING SPEAKER
OUTER DIMENSIONS (W*H*D)	Φ204 x 167 mm
UNIT HEIGHT	N/A