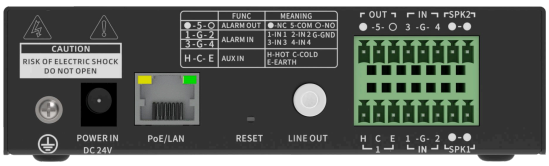
GEN-3001A03 Network Audio Interface





INTRODUCTION

GEN-3001A03 is a DC/PoE-powered network audio interface that supports SIP phone and VMS calls, up to 20 multicast streams, storage for 20 audio files, priority management, scheduled playback, Bluetooth, HTTP API-triggered custom actions, and built-in 2 × 30 W amplification for various audio applications.

MAIN FEATURES

- **Multi-Source Audio Reception:** Supports reception of SIP audio, ONVIF audio, Bluetooth audio, and multicast streams.
- **Custom Shortcut Buttons:** Supports two custom shortcut buttons for one-touch call initiation.
- **Local Audio Storage:** Built-in 80 MB local storage for up to 20 WAV/MP3 audio files.
- **Audio Input and Output:** Provides one audio input with MIC/LINE selectable via the web interface, and one audio output.
- **Control I/O:** Provides four control inputs and one control output, with configurable 12 V DC output via the web interface.
- **HTTP API Trigger:** Supports HTTP API for triggering local file playback.
- **Built-in 2 × 30 W Amplifier:** Integrated 2 × 30 W amplifier under DC power supply for external constant-impedance analog speakers.
- **Scheduled Playback:** Built-in scheduler for timed playback of local audio files.
- **Flexible Power Supply:** Supports PoE / PoE+ and DC power supply.

SIP POE Multicast

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
SNR	⩾85 dB
Frequency Response	100 Hz to 20 kHz
Amplifier Output	2 × 30 W / 8 Ω (DC 24 V); 2 × 7 W / 8 Ω (PoE/PoE+)
Audio Output	1 × RCA, 0 dB
Audio Input	1 × Line/MIC input, balanced, switchable
Input Sensitivity	-10 dB (Line), -20 dB (MIC)
Bluetooth Input	1 × 2.4 GHz
Control Input	4
Control Output	1 × relay output / 12 V DC output, switchable
Custom Function Key	2 × customizable shortcut keys for pattern playback or one-touch calling
Monitor Speaker	1 × built-in 3 W speaker
Reset Button	1
Bluetooth Status LED	1 × blue
Task Status LED	1 × green
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	Sheet metal
Color	Black
Mounting	Desktop, wall mount, or rack mount
Application Environment	Indoor

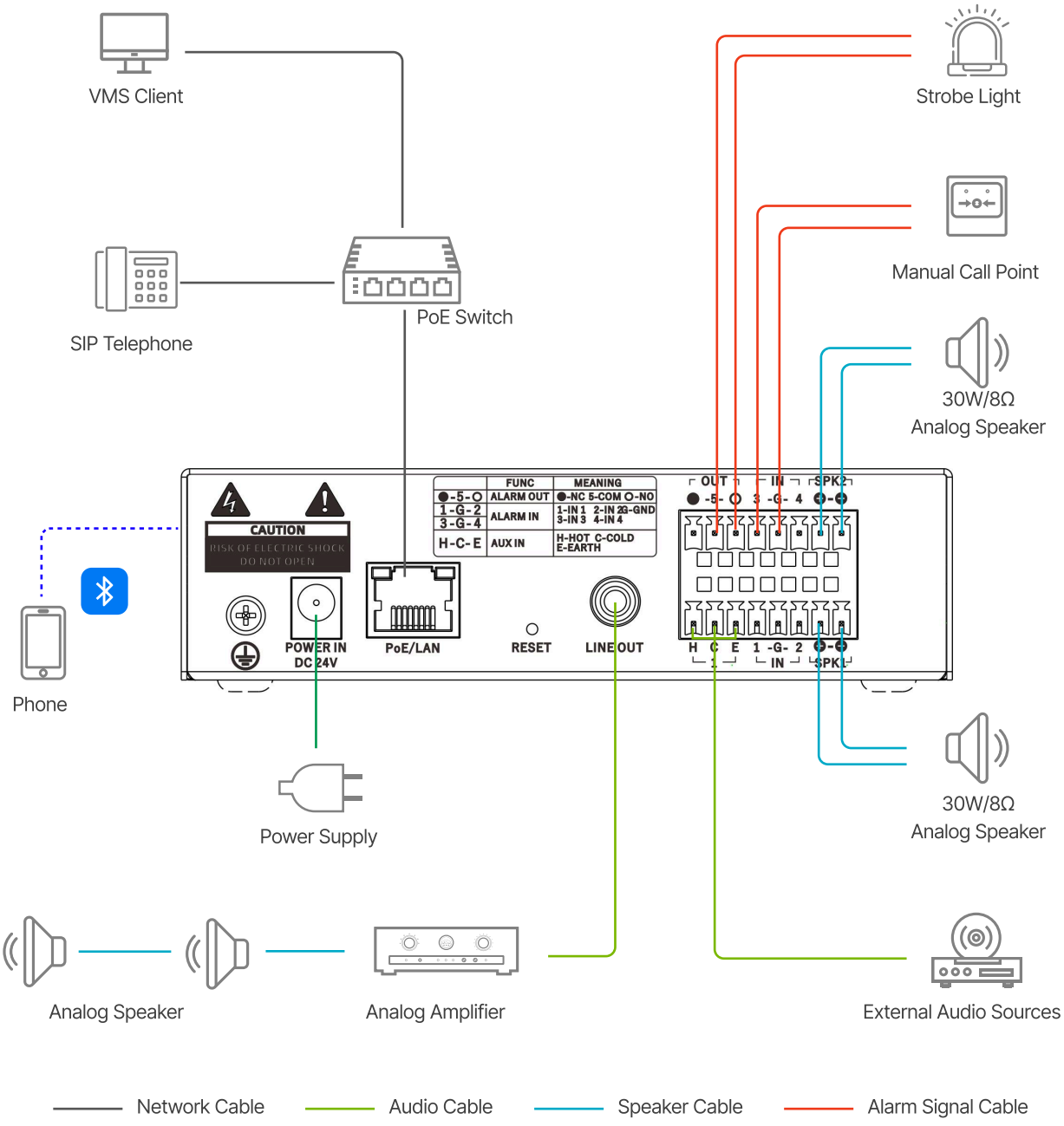
PARAMETERS:

Operating Temperature	-10°C to +50°C
Operating Humidity	⩽90% RH, non-condensing
Dimensions	115 × 139 × 40 mm
Package Dimensions	210 × 146 × 65 mm
Weight	0.5 kg
Warranty	2 Years

ACCESSORIES:

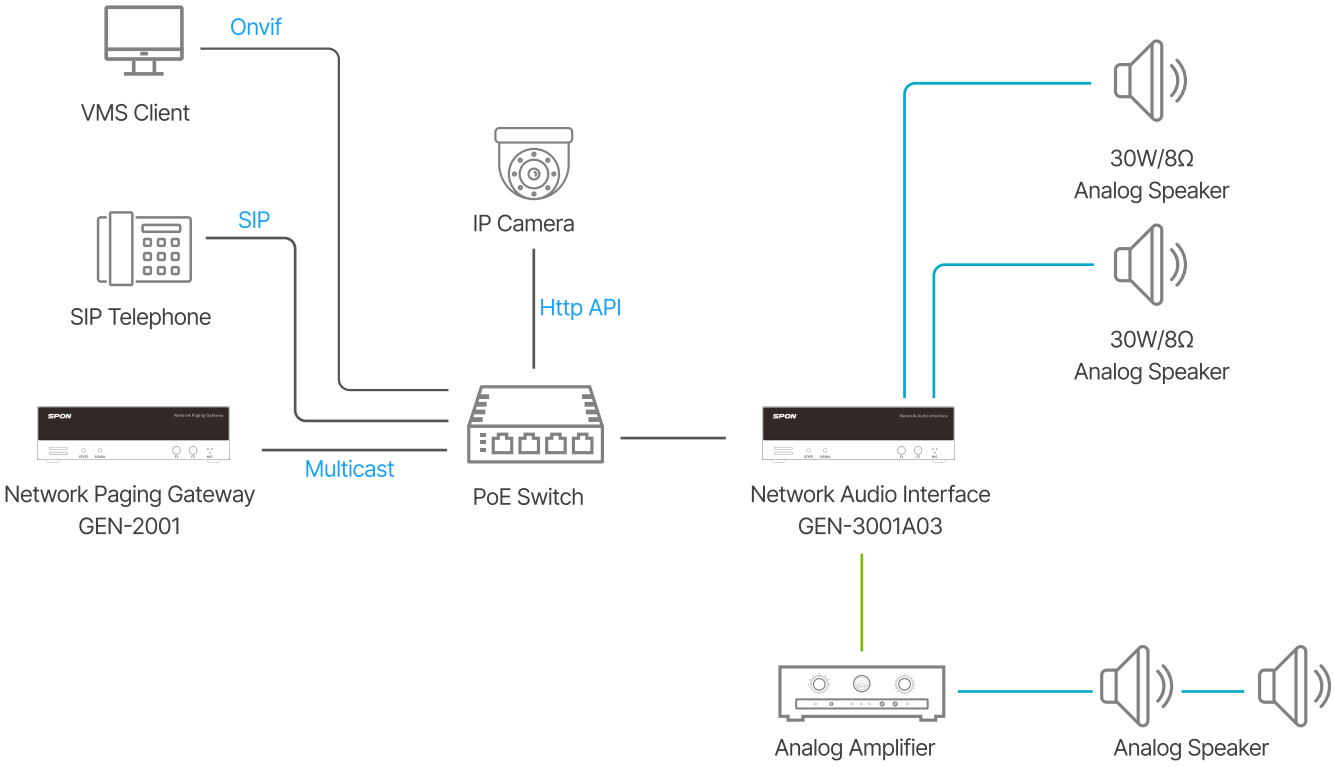
ACCESSORIES	2 × 8-pin terminal (3.81 mm) 1 × Power adapter (DC 24 V / 2.7 A, optional) 2 × Wall mount brackets

CONNECTION DIAGRAM

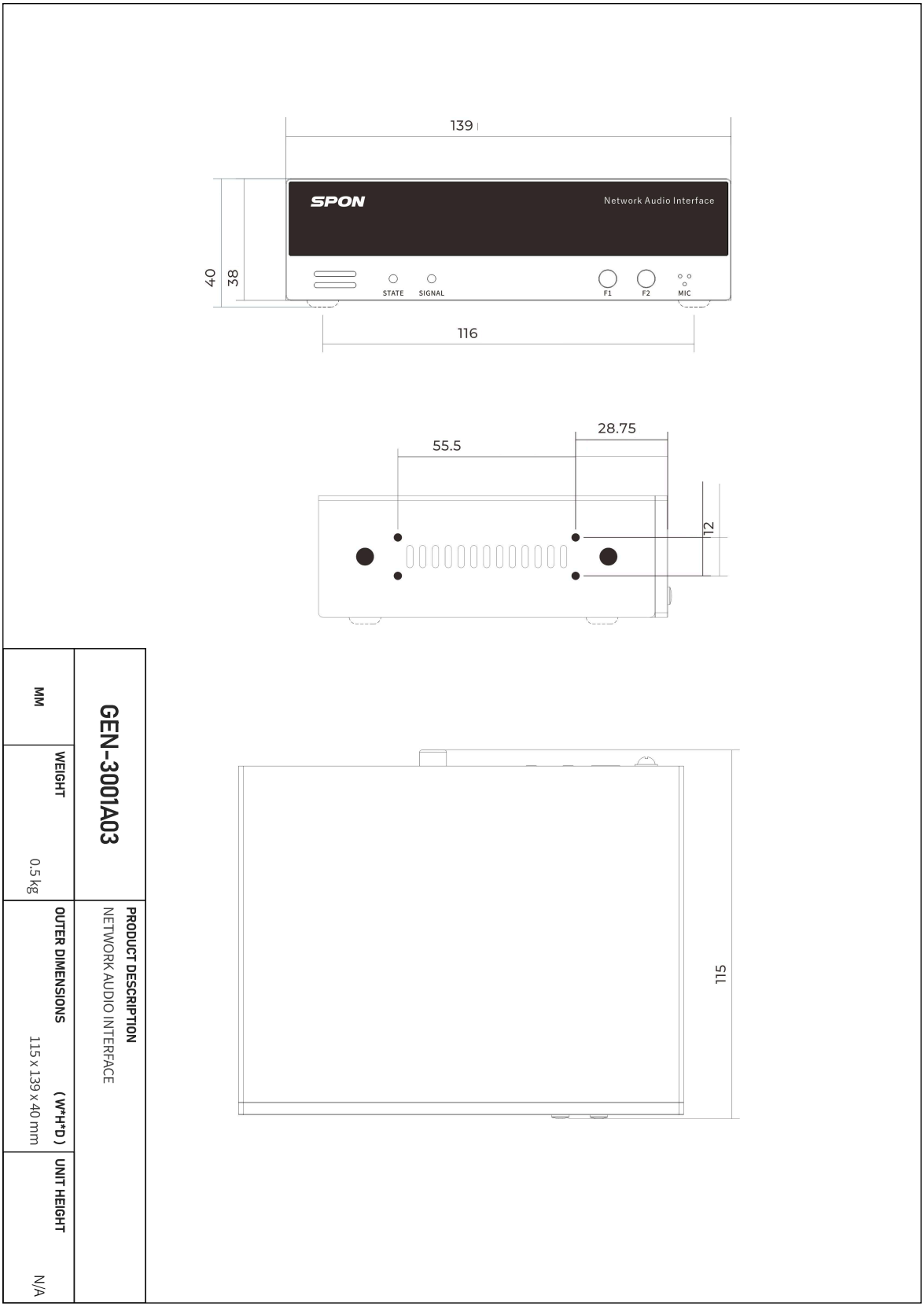


APPLICATION

The GEN-3001A03 Network Audio Interface supports receiving audio streams via SIP, ONVIF, multicast, Bluetooth, and audio input. It can output these streams to analog amplifiers or speakers, ideal for public address system retrofits. The terminal features multiple I/O control interfaces with 4 alarm inputs, 1 output and supports HTTP commands, enabling integration with third-party systems.



DIMENSION



GEN-3001A03	
PRODUCT DESCRIPTION	NETWORK AUDIO INTERFACE
OUTER DIMENSIONS (W*H*D)	115 x 139 x 40 mm
UNIT HEIGHT	N/A
WEIGHT	0.5 kg
MM	