

SPON

Innovate For Security.



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SIPLINK

A minimalist PA system based on standard SIP, ONVIF, MULTICAST, and HTTP API, seamlessly integrating into diverse systems.



Standard Protocol



Flexible Integration



Stable & Reliable

01 What is SIPLink ?

SIPLINK series consists of a variety of different forms of network audio terminal, the system can be used as an independent audio system, but also can be integrated with external systems and platforms (such as video surveillance platform, internal communication system, fire alarm system, etc.), linkage, operation, etc.

The SIPLINK family can interact with multiple systems in the same installation and provides a variety of freedom of configuration for system design.



The SIPLINK family of audio communication systems is designed to be simpler and more flexible.

- Standard Protocol**
 It meets common standard protocols such as **SIP, ONVIF, and Multicast**
- Audio Management**
 Upload, Download, Preview Priority, Volume Control
- Easy Usage**
 Calendar View, Browser Interaction
- Flexible Integration**
 HTTP API Control Input and Output
- Audio Source Type**
 Microphone Panel, MIC, Line, Bluetooth, Local Audio Files
- Stable & Reliable**
 ARM Architecture, Linux System

02 Why SIPLINK?

1.Flexible Integration

SIPLINK series network terminals use standard audio communication and control protocols, which can communicate with third-party external devices or platforms (NVR, sensors, SIP phones, VMS platforms, SIP servers, etc.) to help build a complete integrated system and elevate the entire network solution to a new level. The device provides flexible audio communication over the network.

SIPLINK can be added to integration projects as a "component" to meet audio system functional requirements.



2.Server-Free & Scalable

The SIPLink series can operate in standalone mode without the need for a dedicated server, allowing for a minimal system budget. A single network terminal can fulfill the basic broadcasting functions (realtime, scheduled, and HTTP API). By configuring and combining these network terminals, a large audio communication system can be formed.

3.Audio Communication Business Process



The SIPLINK family can flexibly handle the above elements to meet the needs of each project.

03 Key Broadcast Functions

1. Built-in Audio Files

- 20 audio files (total 80MB)
- MP3, WAV
- Volume setting, repeat count, and interval time
- Supports HTTP API interface calls



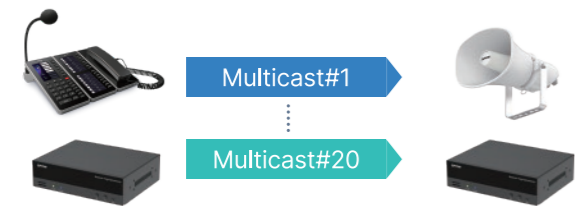
3. SIP Broadcast

- Compatible with G.722, PCMU, and PCMA audio codecs.



4. Multicast

- All transmitter devices support audio streaming to up to 20 multicast addresses.
- All receiver devices support audio reception from up to 20 multicast addresses.



5. Two-Way Communication

- Audio monitoring and two-way communication can be achieved
- AudioInput: MIC/LINE



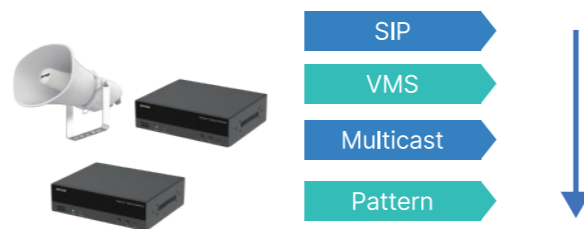
2. VMS Broadcast

- Broadcasts can be initiated through the Onvif protocol by VMS (Video Management System) software.
- Compatible with PCMU and PCMA audio codecs.



6. Priority Management

- The priority between broadcast types and patterns can be set on each device.
- Default priority as below (from high to low)



04 Benefits Advantages

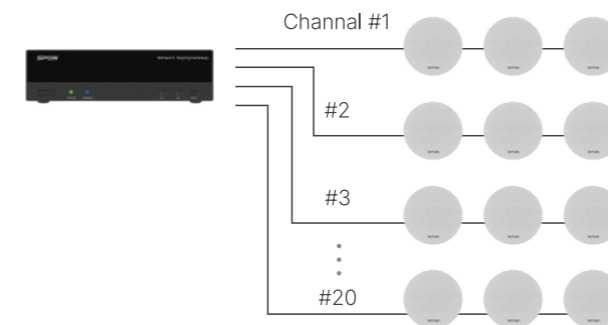
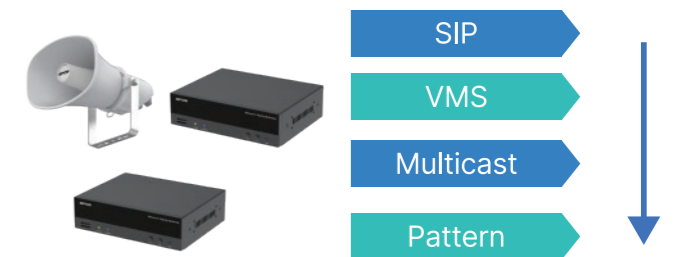


Standard, Open, Compatible

The SIPLink series are based on standard SIP, ONVIF audio, multicast audio, and HTTP command open interfaces, allowing the entire SIPLink series to be directly deployed in a network system and easily integrated into different systems such as VMS (Video Management Systems) or SIP phone systems.

Independent, Combined, Flexible

All receivers in the SIPLink series can operate as an independent network broadcasting system, supporting real-time broadcasts, built-in timers, and control input-triggered alarms. All receivers also can integrate into other systems to form a more powerful network audio solution. Additionally, all receivers support priority management for flexible handling of audio source priorities.



Smart, Convenient, Efficient

All receivers in the SIPLink series support receiving up to 20 multicast addresses. They can send multicast audio streams directly to a specific address via the GEN-9102N network paging microphone. For systems and devices that do not support multicast, the GEN-2001 network broadcasting gateway solves the issue by converting SIP or ONVIF calls into multicast streams for transmission.

Innovative, Reliable, Advanced

The SIPLink series offer a complete range of audio solutions for both indoor and outdoor environments, Terminals connect easily to the network via a POE switch and a standard Ethernet cable, allowing for simple installation at any location requiring audio output. Additionally, the terminals support a range of optional accessories to expand functionality.

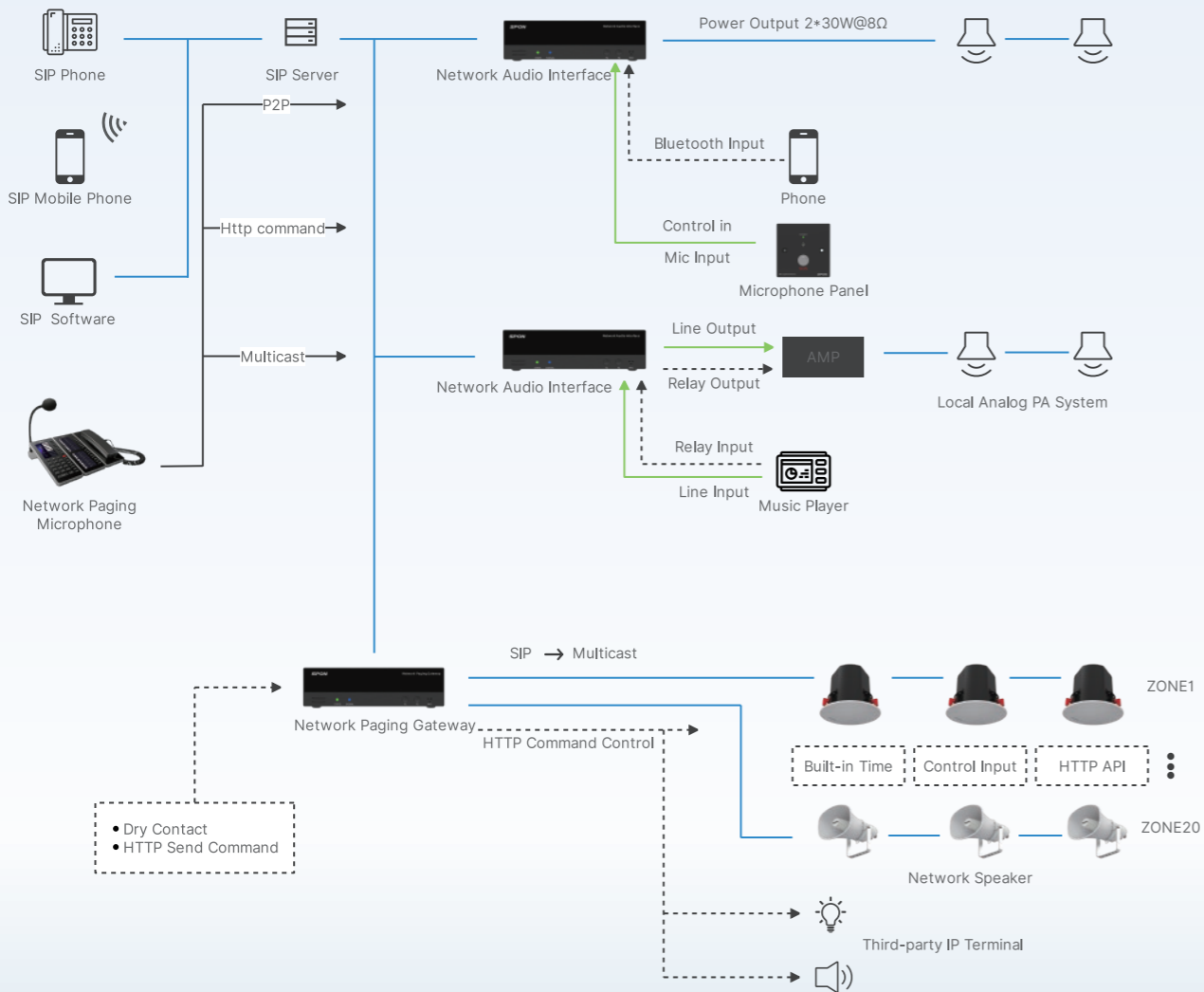
05 Functional Application

01.Independent Standalone System Operation

- Built-in audio files (≤20 files,MP3/WAV,80MB)
- Scheduled/Repeating

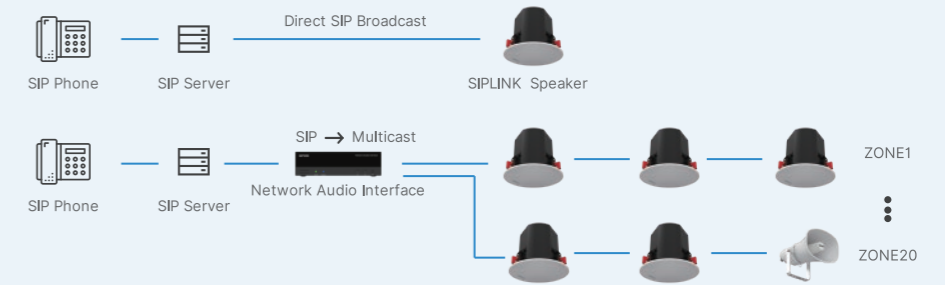


02.Advanced PA System Integration

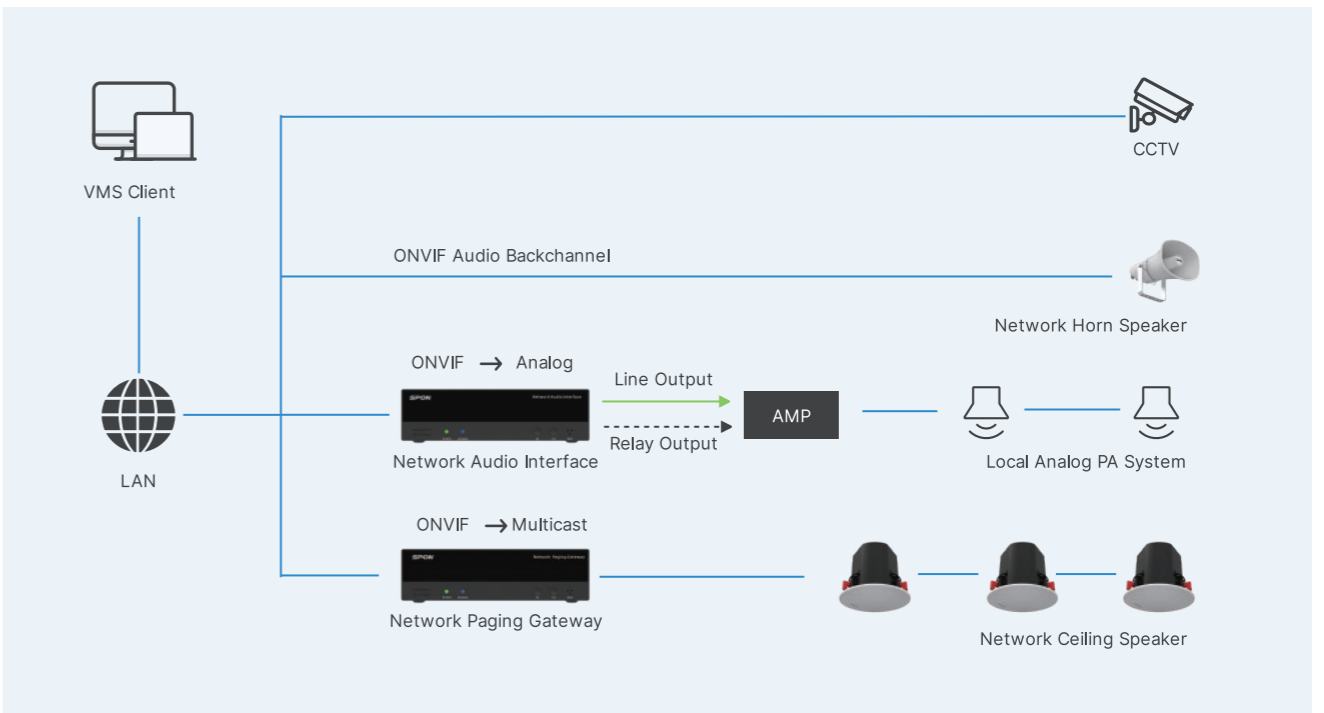
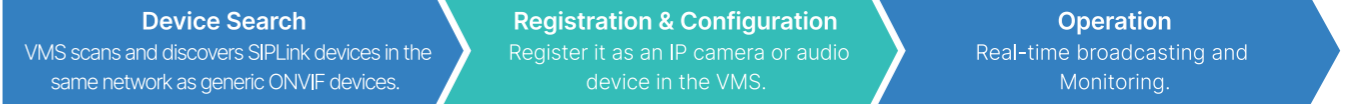


03.SIP Phone System Integration

- Dial 2 digits (DTMF) to select the multicast channel/area.
- It also supports peer-to-peer (P2P) network communication to establish connections without a SIP server.



04.VMS System Integration



Network Paging Microphone

GEN-9102N: Flexible Control Station for the SIPLink Series



Network Paging Gateway

GEN-2001:SIPLink Series Intelligent Hub



01.Product Introduce

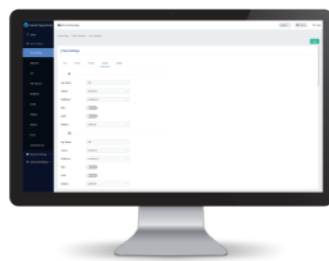
The GEN-9102N serves as the main control console for the SIPLINK series. It features multifunctional quick-access buttons and can be expanded with two auxiliary display screens and a handset to facilitate the simultaneous display of all quick-access functions and high-definition private calls. Additionally, it includes a built-in 1GB media storage, supporting a unique pre-recording feature that enhances broadcast flexibility for clients.

01.Product Introduce

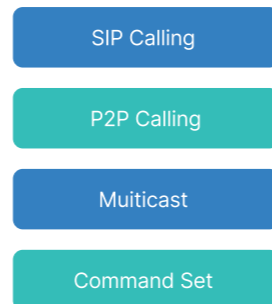
The GEN-2001, as the 'strongest brain' of the SIPLink series, transforms the entire SIPLink series into a powerful communication system, while also supporting integration with external systems or platforms for mutual signal reception and transmission.

02.Custom Shortcut Keys

Easily configure shortcut operations through the web page for one-touch operation.



Custom Quick Operations



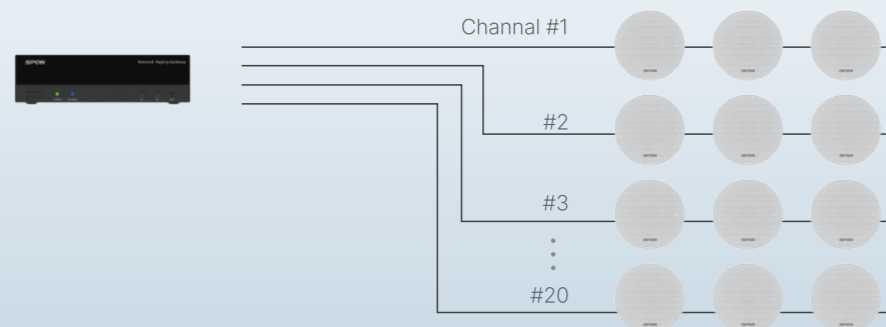
02.Audio Protocol Conversion

Convert audio sources sent via different protocols into multicast format for broadcasting.



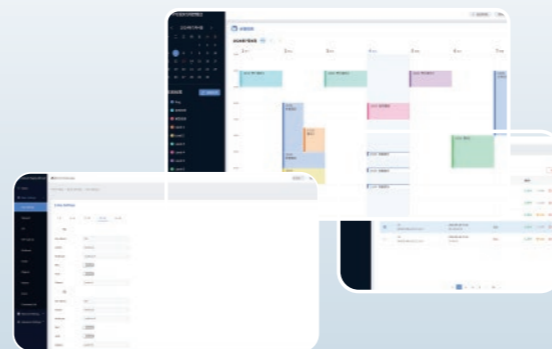
03.Multicast Zoning

A single GEN-2001 can manage 20 multicast addresses and ports, designed for partitioned broadcast applications.



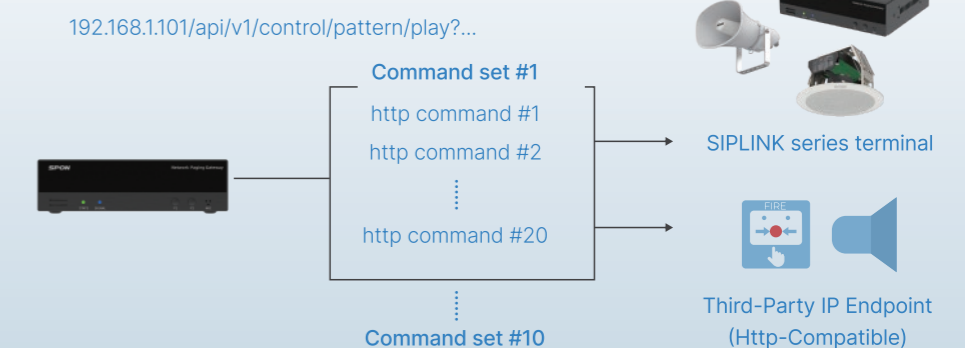
04.Calendar Schedul

WEB GUI Visual Scheduling Console for Triggering of Various Tasks.



05.HTTP Command Publishing

Generic HTTP commands support convenient batch sending to any device that supports HTTP Commands.



Transmitter



GEN-9102N Network Paging Microphone

- Multicast sending of built-in audio files or local audio sources
- Supports up to 40 functional keys on the terminal, enabling one-touch calling, multicasting, and command sets
- Built-in largecapacity 1GB media storage space
- Quadcore high performance SOC, supports up to 20 concurrent tasks
- HTTP commands (receive/send)
- Powered by POE/POE+ or DC power
- Independent emergency broadcast button, supports one-touch initiation (preset for 4 types of alarms)

GEN-2001 Network Paging Gateway



- Multicast sending of SIP audio, ONVIF audio, Bluetooth audio, built-in audio files, or local audio sources
- Built-in 80MB file storage (20 files, WAV/MP3)
- 4 control inputs & 1 control output
- HTTP commands (receive/send)
- Powered by POE/POE+
- The terminal supports 2 functional keys, enabling one-touch calling, multicasting, and command sets

Receiver

GEN-3001A03 Network Audio Interface



- Receive SIP audio, ONVIF audio, Bluetooth, and multicast
- Local broadcasting using built-in audio files or local audio sources (MIC)
- The terminal supports 2 functional keys, enabling one-touch calling and triggering local broadcasting
- 4 control inputs and 1 control output
- Built-in 80MB file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- Powered by POE/POE+, DC power
- 2*30W (DC powered), built-in power amplifier, 1 audio output

Receiver



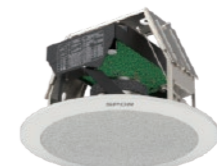
Network Ceiling Speaker GEN-6212A01

- 18 cm Ceiling-Mount Conical Speaker
- Receives SIP audio, ONVIF audio, Bluetooth, and multicast
- Local broadcasting using built-in audio files
- 20W built-in power amplifier, with built-in MIC, supports intercom
- 2 control inputs and 1 control output
- 80MB built-in file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- POE/POE+, DC power supply



Network Horn Speaker GEN-6392A01

- Receives SIP audio, ONVIF audio, and multicast
- Local broadcasting using built-in audio files
- 10W built-in power amplifier, with built-in MIC, supports intercom
- 2 control inputs and 1 control output
- 80MB built-in file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- POE/POE+, DC power supply



Network Ceiling Speaker GEN-6213A01

- 12 cm Ceiling-Mount Conical Speaker
- Receives SIP audio, ONVIF audio, Bluetooth, and multicast
- Local broadcasting using built-in audio files
- 2 control inputs and 1 control output
- Built-in 80MB file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- POE/POE+, DC power supply
- Built-in 4*3W amplifier for driving up to 3 8-ohm passive analog speakers.



Network Column Speaker GEN-6192A03

- Wall-mounted column array speaker
- Receives SIP audio, ONVIF audio, Bluetooth, and multicast
- Local broadcasting using built-in audio files
- 30W built-in power amplifier, with built-in MIC, supports intercom
- 2 control inputs and 1 control output
- 80MB built-in file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- POE/POE+, DC power supply

Receiver



GEN-6011A03 Network Wall Mount Speaker

- Receives SIP audio, ONVIF audio, Bluetooth, and multicast
- Local broadcasting using built-in audio files
- 30W built-in power amplifier, with built-in MIC, supports intercom
- 2 control inputs and 1 control output
- 80MB built-in file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- POE/POE+, DC power supply

Accessory



GEN-4101 Microphone Panel

- Wall-mounted microphone panel accessory
- 1 call button LED connection status indicator
- 1 audio output, 1 control output
- Powered by 12V phantom power



GEN-4102 Microphone Panel

- Wall-mounted microphone panel accessory
- 1 call button
- 2 volume control buttons
- LED connection status indicator
- 1 audio output, 1 control output
- Powered by 12V phantom power



GEN-3102A03 Network LED Clock

- LED clock display with server login for receiving and displaying messages.
- Receives SIP audio, ONVIF audio, Bluetooth, and multicast
- Local broadcasting using built-in audio files
- 2* 30W built-in power amplifier, with built-in MIC, supports intercom
- 2 control inputs and 1 control output
- 80MB built-in file storage (20 files, WAV/MP3)
- HTTP commands (receive)
- Playback tasks (repeat, weekly timer)
- POE/POE+, DC power supply

Feature Comparison Table



Priority Management

Broadcast priorities can be configured independently and flexibly on each terminal device.

Weekly Timer

The weekly timer function allows the specification of "start" time, "end" time, and valid broadcast days within the week.

Diverse Accessories

Terminal devices can all choose to use microphone accessories, extending functions such as SIP calls and other applications.

	GEN-3001A03	GEN-6213A01	GEN-6212A01	GEN-6392A01	GEN-6192A03	GEN-6011A03	GEN-3102A03
Power	DC/POE	DC/POE	DC/POE	DC/POE	DC/POE	DC/POE	DC/POE
Audio Protocol SIP/ONVIF/Multicast	✓	✓	✓	✓	✓	✓	✓
Audio Codec PCMU G.711u/PCMA G.711a/ G.722	✓	✓	✓	✓	✓	✓	✓
Two-Way Communication (MIC Input)	Supports Built-in MIC	Supports External MIC Accessory	Supports Built-in MIC	Supports Built-in MIC	Supports Built-in MIC	Supports Built-in MIC	Supports Built-in MIC
Bluetooth Audio	✓	✓	×	×	✓	✓	✓
Audio Output	✓	×	×	×	×	×	×
Audio Storage ≤20 Files/80MB/MP3/WAV	✓	✓	✓	✓	✓	✓	✓
Weekly Timer Trigger Broadcast Patterns	✓	✓	✓	✓	✓	✓	✓
Control HTTP(API)/Input/Output	✓	✓	✓	✓	✓	✓	✓
Environmental Ratings	-10~50°C	-10~50°C	-10~50°C	IP66 -40~70°C	IP66 -30~60°C	IP66 -30~60°C	-10~50°C

Integrated audio communication

Stable | Clearer | Intelligent



09 Applications Examples

Office Building Applications

GEN-2001 Network Paging Gateway

Scenarios

- Real-time announcement for a specific area or terminal through the VMS platform.
- Realtime paging for a specific area or terminal via SIP phone.
- Fire alarm linkage for emergency announcement.

Features

- Enable calls to a specific area or terminal.
- Greater flexibility with integration into additional systems.



School Applications

GEN-9102N Network Paging Microphone

Scenarios

- Set class bells according to the school schedule.
- One-touch call to a designated area for real-time announcements.
- One-touch call to the control center for two-way intercom communication.
- One-touch operation for various combination applications, convenient and quick.
- Integration of intercom and public address system into a single application.

Features

- One-touch operation for various combination applications, convenient and quick.
- Integration of intercom and public broadcasting into a single system application.



Retail Stores Applications GEN-6213A01 Network Ceiling Speaker

Scenarios

- Bluetooth connection to ceiling speakers for background music playback.
- Can connect to NVR via ONVIF for real-time announcement.
- Supports external sensors for voice-triggered activation.

Features

- Built-in 4*3W amplifier for driving up to 3 8-ohm passive analog speakers.



Expansion Projects Applications GEN-3001A03 Network Audio Interfaces

Scenarios

- Expansion the analog broadcasting system to integrate with the existing SIP phone system.
- Enable real-time calling from SIP phones.
- Receive HTTP commands.

Features

- A single network terminal can achieve real-time calling, scheduled notifications, and linked broadcast voice notifications without the need for an additional server.



Hospital Applications GEN-6212A01 Network Ceiling Speaker

Scenarios

- Guiding Announcements: Directs patients to the correct exam room.
- Speaker supports SIP and multicast calls via external panels.

Features

- Each room's equipment is independently controlled, simple to use, and does not require a server.



Security Applications GEN-6392A01 Network Horn Speaker

Scenarios

- When a camera detects an intrusion or dangerous event, it automatically triggers the horn speaker to play a built-in audio file.
- Supports SIP and ONVIF protocols, enabling real-time announcements via SIP phones or VMS platforms.
- The horn speaker supports HTTP commands and ONVIF audio streams.

Features

- Flexible Area Monitoring: You can easily view the device's location.
- Easy Installation: The speaker is simple to install and can be used by connecting to the existing network.





GEN-2001 Spec Sheet






Product Model	GEN-2001
Power Supply	POE
Indicator light	Green, normally on, flashes when receiving a task.
Audio Codec Format	Opus、PCMU、PCMA、G.722
Multicast Address	20 multicast addresses
File Storage	≤ 20 files (max capacity 80MB), file formats:WAV/MP3
Network Interface	100BASETX, RJ45 interface
Network Protocol	TCP/IP,UDP,HTTP,RTP,RTSP,ARP,ICMP,NTP,SIP,ONVIF
Command Set	20 HTTP command sets, each set supports up to 10 HTTP commands
Microphone	Built-in electret condenser microphone
Monitoring Speaker	3W monitoring speaker
Bluetooth Input	1 input
Bluetooth indicator light	Supported, normally off, stays on when Bluetooth connection is successful.
Bluetooth password	Can be modified via the web.
Control Input	4 control inputs, dry contact signal
Control Output	1 control output, supports digital signal or DC12V output, web controlled
Shortcut keys	2, customizable via the web.
Audio Input	1 audio input, supports MIC/LINE input, with 12V phantom power, web controlled
Audio Output	1 audio output, supports LINE output
Operating Temperature	-10-55°C
Product Dimensions	115*139*40mm
Product Weight	500g

GEN-9102N Spec Sheet

Product Model	GEN-9102N
Power Supply	DC12V、POE
Audio Codec Format	Opus、PCMU、PCMA、G.722
Multicast Address	20 multicast addresses
File Storage	≤100 files(max capacity 1024MB),file formats: WAV/MP3
Local media	Preview supported.
Network Interface	100BASETX, RJ45 interface
Network Protocol	TCP/IP,UDP,HTTP,RTP,ARP,ICMP,NTP,SIP
Screen Size	4.3 inch
Resolution	800×480 resolution
Microphone Type	Backelectret condenser microphone
Speaker Power	3W
Speaker sensitivity	88±3dB / 1m / 1W.
Shortcut keys	Up to 40, customizable via the web.
Control Input	1 control input, dry contact signal
Audio Input	1 audio input, supports LINE input
Audio Output	1 audio output, supports LINE output
Emergency broadcast	4 built-in types (fire, air raid, violence, earthquake) voice alarms.
Recorded audio	support
Expansion accessories	Supports up to 2 keypads and 1 handset panel
Operating Temperature	-10-55°C
Product Dimensions	257.3*100*77.5mm(excluding expansion board and handset board)
Product Weight	760g(excluding expansion board and handset board)





Speakers Spec Sheet

Product Model	GEN-6392A01	GEN-6212A01	GEN-6011A03	GEN-6192A03	GEN-6213A01
Product					
Power Supply	DC24V、POE				
Amplifier Power	10W	20W	30W	30W	4 × 3W
Sensitivity	112dB	88dB	89dB	88dB	90dB
Maximum Sound Pressure Level	121dB	101dB	104dB	103dB	95dB
Frequency Response	280Hz-12.5KHz	200Hz-18KHz	100Hz-18KHz	150Hz-20KHz	100Hz - 16KHz
Audio Codec Format	Opus、PCMU、PCMA、G.722 automatic voice codec recognition				
Multicast Address	20 multicast addresses				
File Storage	Up to 20 files (maximum capacity 80MB), file formats WAV/MP3				
Network Interface	100BASETX, RJ45 interface				
Network Protocol	TCP/IP,UDP,HTTP,RTP,ARP,RTSP,ICMP,NTP,SIP,ONVIF				
Control Input	2 control inputs, dry contact signal				
Control Output	1 control output, supports digital signal or DC12V output			1 control output, supports digital signal	
Audio Input	1 audio input, supports MIC/LINE input, with 12V phantom power, web controlled				
Protection Rating	IP66	/	IP66	IP66	/
Operating Temperature	-40-70°C	-30-60°C	-30-60°C	-30-60°C	-10~50°C
Product Dimensions	281×233×214mm	Φ204x167mm	193×151.5×292mm	425*85.5*68.4mm	Φ180x120.5mm
Product Weight	1600g	1850g	2400g	2300g(including bracket)	630 g

GEN-3001A03,3102A03 Spec Sheet

Product Model	GEN-3001A03	GEN-3102A03
Product		
Power Supply	DC24V、POE	
Amplifier Power	2*30W	
Audio Codec Format	Opus, PCMU, PCMA, G.722	
Multicast Address	20 multicast addresses	
File Storage	Up to 20 files (maximum capacity 80MB), file formats WAV/MP3	
Network Interface	100BASETX, RJ45 interface	
Network Protocol	TCP/IP,UDP,HTTP,RTP,ARP,RTSP,ICMP,NTP,SIP,ONVIF	
Control Input	4 control inputs, dry contact signal	2 control inputs, dry contact signal
Control Output	1 control output, supports digital signal or DC12V output	
Audio Input	1 audio input, supports MIC/LINE input, with 12V phantom power, web controlled	
Operating Temperature	-10~50°C	
Product Dimensions	115×139×40 mm	366*123*55 mm
Product Weight	500g	1600g

Panel Spec Sheet

Product Model	GEN-4101	GEN-4102
Product		
Power Supply	12V phantom power	12V phantom power
Audio Output	Balanced signal, -20dB	Balanced signal, -20dB
Control Output	1 Control Output	2 Control Output
Buttons	1 button	3 buttons
Product Dimensions	86*86mm	86*86mm
Product Weight	140g	140g