

# SIP

## Paging Gateway

PA3



PA3 is a SIP Public Announcement system device for industry application. The media stream transmission adopts standard IP/RTP/RTSP protocols. It has various functions and interfaces, such as Intercom, broadcast and recording, to adapt different application environments. Users can DIY the paging device easily.

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# Highlights

- Exquisite, can be embedded in other equipment for internal installation
- 10W ~ 30W mono channel power amplifier output, according to the input voltage to setting the output power.
- Audio line in port, 3.5mm standard audio interface, plug and play.
- Audio line out port, expandable external active speaker.
- Support USB2.0 port and TF card slot for data storage or audio offline broadcasting.
- Adaptive 10/100 Mbps network port, integrated PoE
- Compatible with major platforms: Asterisk, Broadsoft, 3CX, Metaswitch, Elastix, Avaya etc.

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# Specification

## Generic

2 SIP Lines

Speed dial

Linkage with IP camera to realize video intercom

Oral announcement of the IP address(in English)

MP3 broadcasting

Support programmable DSS key ports

Support mono active speaker

Support audio line in

Support TF card and USB flash drive

PoE enabled

## Device Functions

Auto-answering

Programmable DSS keys

Through button or web page volume adjustment

Network time synchronization

Dynamic multicast function

Support recording (through USB flash drive or server)

Action URL / Active URI

## Call Functions

Call out / answer / reject

Call waiting

Intercom, Multicast

Speed dial

Anonymous call (Hide caller ID)

Call parking/pick-up (depending on server)

## Audio

Narrowband codec: G.711A/U, G.729A/B

Wideband codec: G.722, Opus

Full-duplex hands-free speakerphone with AEC

DTMF: In-band, Out-of-Band (RFC2833/ SIP INFO)

## Network

Physical: 10/100 Mbps Ethernet

IP mode: IPv4/IPv6/IPv4&IPv6

IP configuration: Static IP / DHCP / PPPoE

VPN: L2TP / OpenVPN

## Protocols

SIP v1 (RFC2543), v2 (RFC3261) over UDP/TCP/TLS

RTP/RTCP/SRTP

STUN

DHCP

IPv6

PPPoE

L2TP

OpenVPN

SNTP

FTP/TFTP

HTTP/HTTPS

TR-069

## Deployment & Maintenance

Auto-provisioning via FTP/TFTP/HTTP/HTTPS/DHCP OPT66 /SIP PNP/TR-069

Web management portal

Web-based packet dump

Configuration export / import

Firmware upgrade

Syslog

## Physical Specifications

Keypad: 3 keys, including: 2 volume control keys (Up/Down)  
1 reset key (soft reset)

DC port x1: DC power input  
Port: 2 Pin terminal socket

RJ45 port x1: connect the network  
PoE enabled

Blue LED x1: (SIP status and network status)

Line out port x1: connect the active speaker  
Out: adjustable by volume, max up to 1.2Vpp.  
Port: terminal socket

Line in port x1: connect audio line input  
Port: 3.5mm standard audio port

Line out port x1: connect the active speaker  
Out: adjustable by volume, max up to 1.2Vpp.  
Port: terminal socket

MIC in port x1: connect the MIC  
Electret condenser MIC is recommended  
Sensitivity: -38dB, impedance 2.2k ohm, bias voltage 2.54Vpp  
Port: terminal socket

Passive speaker port x1: connect the speaker  
Output power: 4Ω, PoE/10W, 12V/10W, 18V/20W, 24V/30W; related to power supply voltage  
Wire diameter: 18AWG or higher  
Port: terminal socket

DSS keys port x2: connect the external buttons (support LED)  
LED: Output 5.0Vdc/5mA  
Port: 8 pin terminal socket

TF card slot x1: connect TF card

USB 2.0 port x1: Connect USB flash drive, broadcast local audio files

DC power input: DC12V~24V/2A

PoE level: Class 4

Color: black

Working temperature: -20°C ~ 50°C

Storage temperature: -30°C ~ 60°C

Working humidity: 10~95%

Installation: Desktop stand / Wall-mounted

Device dimensions: 113x83x28 mm

Gift box dimensions: 147x114x58 mm

Outer CTN dimensions: 310x248x322 mm (20 PCS)