



# Fanvil PA2S SIP Video Intercom & Paging Gateway

Fanvil PA2S is a SIP audio & video intercom and 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, video, broadcast, recording and short circuit trigger, to adapt different application environments. Users can DIY the paging device easily.

## Highlights

- ☑ Exquisite, can be embedded in other equipment for internal installation
- ☑ Emergency call button interface, active call
- ☑ NVR video recording, standard RJ45 interface
- ☑ Recording output, 3.5mm standard audio interface
- ☑ Audio line out port, expandable external active speaker.
- ☑ 10W ~ 30W mono channel power amplifier output, according to the input voltage to setting the output power.
- ☑ Adaptive 10/100 Mbps network port, integrated PoE
- ☑ Compatible with major platforms: Asterisk, Broadsoft, 3CX, Metaswitch, Elastix, Avaya etc.



## 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 mono active speaker (audio line out)
- Support audio line in
- Talkback recording output
- Switch signal input and output
- Support programmable DSS key ports
- PoE enabled

## Device Functions

- Auto-answering
- Programmable DSS keys
- Through button or web page volume adjustment
- Network time synchronization
- Time plan (task management)
- Incoming call multicast
- Dynamic multicast function
- HTTP API
- Action URL / Active URI

## Call Functions

- Call out / answer / reject
- Call waiting
- Intercom, Multicast
- Speed dial

- Anonymous call (Hide caller ID)

## Audio

- Narrowband codec: G.711A/U, G.729A/B, iLBC, G.723.1, G.726-32K
- 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
- VLAN

## 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 & Management

- 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)
- RJ45 port x2: connect the network
  - WAN port: connect the network, support PoE
  - Camera port: connected to the original camera
- Blue LED x1: (SIP status and network status)
- Recording output port x1: connect audio device
  - Out: mixed output of local microphone voice and call voice recording
  - Port: 3.5mm standard audio port
  - Impedance: 15 Ohm
- Ground screw x1
- Passive speaker port x1: connect the speaker
  - Output power:
    - 4 Ω, PoE/10W, 12V/10W, 18V/20W, 24V/30W; related to power supply voltage.
    - 8 Ω, PoE/5W, 12V/5W, 18V/10W, 24V/15W; related to power supply voltage.
  - Wire diameter: 18AWG or higher.
  - Port: terminal socket
- Line out port x1: connect the active speaker
  - Out: adjustable by volume, max up to 1.2Vpp.
  - Port: terminal socket

- DSS keys port x1: connect the external buttons (support LED)
  - LED: Output 5.0Vdc/5mA.
  - Port: terminal socket
- MIC in / Line in port x1: connect the MIC or audio line in device
  - The multiplex port is microphone input by default, which be configured as audio line input function through software.
  - Electret condenser MIC is recommended
  - Sensitivity: -38dB, impedance 2.2k ohm, bias voltage 2.54Vpp
  - Port: terminal socket
- Short circuit input and output port x1 (built-in relay)
  - Relay: MAX DC30V / 2A, AC125V / 0.5A
  - Port: terminal socket
- 2 parallel power input DC port: DC power input
  - DC power input: DC12V~24V/2A
  - 1 road for the 5.5mm DC power seat
  - 1 road for the 2 Pin terminal socket
- PoE level: Class 3
- Housing material: aluminum alloy
- Installation: Desktop stand / Wall-mounted
- Color: black
- Working temperature: -30°C ~ 60°C
- Storage temperature: -30°C ~ 60°C
- Working humidity: 10~95%
- Device dimensions: 113x83x28 mm
- Gift box dimensions: 147x114x58 mm
- Outer CTN dimensions: 310x248x322 mm (20 PCS)

The above specifications may be updated in the future without prior notice. All hardware/software/physical features should be based on the final shipped products. For more information, please visit: [www.fanvil.com](http://www.fanvil.com)

### Compatibility List:

