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, LBC, G.723, 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
- LLDP
- Qos

Protocols

- SIP2.0 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, Power over Ethernet (IEEE 802.3af), class 3

- 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:
    - 4Ω, PoE/10W, 12V/10W, 18V/20W, 24V/30W; related to power supply voltage.
    - 8Ω, 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
- Power Consumption (Adapter)：1.73~7.9W
- Power Consumption (PoE)：2.16~8.98W
- 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
- Housing material: aluminum alloy
- Installation: Desktop stand / Wall-mounted
- Color: black
- Working temperature: -30℃ ~ 60℃
- Storage temperature: -30℃ ~ 60℃
- Working humidity: 10~95%
- Device dimensions: 113x83x28 mm
- Gift box dimensions: 147x114x58 mm
- Outer CTN dimensions: 310x248x322 mm (20 PCS)

Compatibility List:

3CX · Asterisk · AVAYA · broadsoft · epygi · HUAWEI · Jabra GN · metaswitch · NEC

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