PA1+

Power over Ethernet (PoE)	IPv6 & IPv4	Gigabit Ethernet	Relay control interface	Security (TLS & SRTP)	Plug & Play	HD audio

Snom's SIP-based announcement system PA1+

With the Snom PA1+, a SIP PBX can be expanded to become a broadcasting system for HD audio announcements from any Snom SIP phone or to play background music in rooms, corridors and office floors. The integrated 6.5-watt high-performance amplifier can already fill large rooms with sound using existing speakers, but larger PA systems can also be added via the existing connections. Another possible use is the freely configurable relay contacts, which can be remotely controlled via SIP or DTMF and thus help to integrate existing door opening systems, for example. Additional network components such as LAN cameras can also be connected to the gigabit switch in order to set up or expand a security system. High security standards, such as SHA 2 encryption, are key attributes of the PA1+.

Product variants

Snom PA1+ | EU & UK | PN 00004602

Snom PA1+ | Americas | PN 00004603

Basics

- Product information
  - Public announcement system
  - Colour: black
  - Operating system: Linux
- Placement: indoor, wall mounting, ceiling mounting

Dimensions and weight

- Dimensions (L × W × H, approx.)
  - 165 mm × 104 mm × 35 mm
  - 175 mm × 104 mm × 35 mm with connectors
- Weight (approx.)
  - 400 g

Indicators and keys

- 2 LED indicators
  - Call status indication: 1 green LED
  - Power status indication: 1 red LED
- 1 dedicated function key: Reset / IP address announcement

Audio devices and codecs

- Audio output
  - Amplifier[1]
    - 6.5 W, class D
    - Impedance: 8 Ω
  - Line out: 600 Ω
- Audio codecs
  - G.711 (A-law, µ-law), G.722, G.723.1, G.726, G.729, Opus
- Dual-tone multi-frequency signalling (DTMF / RFC2833)
  - SIP-INFO, in-band, out-of-band

Interfaces and connections

- Power options
  - Power over Ethernet (PoE)
    - IEEE 802.3af, class 3
  - Power adapter
    - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W[2]
- Wired interfaces
  - Power adapter: coaxial power connector (socket)
  - Ethernet 1 Gbit/s: 2 × RJ45-8P8C (Port 1/2) sockets
  - Headset:[3] 2 × 3.5 mm miniature audio jack
  - Maintenance: RJ12 connector
  - External speaker: loudspeaker terminal + / -
  - External keyboard: proprietary 8-pin socket (KBD)
  - Input / output devices:
    - proprietary 6-pin socket (I/O1)
    - proprietary 4-pin socket (I/O2)
    - proprietary 2-pin socket (VDD)

Networking technologies and protocols

- Network technologies
  - OpenVPN
- VoIP related protocols and techniques
  - SIP (RFC 3261), SDP (RFC 3261), RTP (RFC 8866)
- Secure VoIP protocols
  - SIPS (SIP over TLS), SRTP (RFC 3711)
- Network protocols
  - IPv4 / IPv6 (dual stack), DHCP, NTP, LDAP, HTTP, FTP, TFTP, L2TP
- Secure network protocols
  - TLS V1.2

User interfaces and setup

- Configuration and setup via menu-driven web user interface (WUI)
- Automatic configuration via provisioning
  - Loading of settings and firmware via HTTP / HTTPS / TFTP
  - Supported DHCP provisioning options 66 / 67
  - Secure Redirection And Provisioning Service (SRAPS) support
  - Plug & Play (PnP) support
  - Secure provisioning with preinstalled certificate
- Localization
  - Languages
  - Timezone, dial tone
- Diagnostic
  - SIP trace, PCAP trace, Syslog

Call features

- Outgoing call features
  - Multicast paging

- Incoming call features
  - Auto answer

Interoperability

- Certified VoIP partner

Package contents

- Hardware
  - Public announcement system
  - Wall mount plate, wall mount screws
  - Wire set
- Documentation
  - Quick Installation Guide (QIG)
  - GNU General Public License
  - Drill template

Snom accessories and compatible devices

- Power adapter[2]
  - Snom 10W PSU (PN 00004570)
- External keyboard
- External speaker
- Input / output devices
- Amplifier

[1] Loudspeaker not included
[2] If PoE is not available
[3] For installation and maintenance purposes

Disclaimer

Further information: Snom website | Snom Service Hub | Warranty information | Type approval