

## 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

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



PA1+ | EU & UK | PN 00004602



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<sup>1</sup>
    - 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 | IEEE 802.3az<sup>4</sup>
  - Power adapter
    - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W<sup>2</sup>
- Wired interfaces
  - Power adapter: coaxial power connector (socket) (5V DC)
  - Network connectivity: 2 × RJ45-8P8C (Port 1/2) sockets → Gigabit Ethernet (GbE)
  - Headset:<sup>3</sup> 2 × 3.5 mm miniature audio jack (Mic-In/Line Out)
  - Maintenance: RJ12 (EXT) socket
  - External speaker: loudspeaker terminal + / - (Speaker)
  - 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)

## Interoperability

- Certified VoIP partner

## Networking technologies and protocols

- Network technologies
  - [OpenVPN](#)
- VoIP related protocols and techniques
  - [SIP, SDP, RTP](#)
- Secure VoIP protocols
  - [SIPS \(SIP over TLS\), SRTP](#)
- 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](#)

- Time zone, dial tone
- Diagnostic
  - [SIP / PCAP trace](#)
  - [Syslog](#)

## Call features

- Outgoing call features
  - [Multicast paging](#)
- Incoming call features
  - [Auto answer](#)

## Package contents

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

## Snom accessories and compatible devices

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

<sup>1</sup> Loudspeaker not included

<sup>2</sup> If PoE is not available

<sup>3</sup> For installation and maintenance purposes

<sup>4</sup> Optional via software

## Disclaimer

Further information: [Snom PA1+ webpage](#) | [Snom Service Hub](#) | [Warranty information](#) | [Type approval](#)

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