

# snom 320

Innovative SIP based VoIP Phone



- **Tilttable semi-graphical two-line display**
- **47 keys, 13 LEDs**
- **12 programmable function keys**
- **Power over Ethernet**
- **Speakerphone**
- **Headset connection**
- **SIP RFC3261**
- **Security: SIPS/SRTP, TLS**
- **STUN, ENUM, NAT, ICE, IEEE 802.1X**
- **Codecs: G.711, G.729A, G.723.1, G.722, G.726, GSM 6.10 (full rate)**
- **2 x IEEE 802.3 10/100 Mbps switch**
- **Localization**
- **XML driven mini browser**
- **Very low energy consumption**
- **Expansion module available**
- **Unified Communications ready**

Ideal for the office and everyone who makes a lot of calls, the **snom 320** is an affordable, yet powerful SIP business telephone with built-in full duplex speakerphone and three-party conference bridging.

A 2x24 semi-graphical LCD display and a menu-driven user interface supports easy feature management.

12 programmable keys with LEDs support flexible identity access/key configuration. A 100 number call memory, a 100 entry onboard address book (to which data may easily be uploaded), custom call blocking, configurable/downloadable ringtones, auto-answer mode, DND and other

sophisticated features ensure convenience and productivity. And the **snom 320's** built-in web server supports even simpler end user configuration, screen dialing, and access to call history.

The **snom 320** is remote-manageable and firmware-upgradable, uniquely easy to install, and largely self-configuring. Broad codec support and full compatibility with current SIP recommendations ensure interoperability; support for STUN (NAT traversal), ENUM (for dialed-number resolution) and other state-of-the-art features enables flexible deployment behind local proxies, IP PBXs or hosted VoIP services.

The **snom 320** supports the security standard SRTP – a current specification from the Internet Engineering Task Force (IETF) for protection against eavesdropping – and TLS for protection against sniffing of signaling and authentication data.

By limiting the need for external conference bridges/media server capacity or use of conference services for routine multiparty calls, the **snom 320's** built-in three-party conference bridge helps limit total cost of ownership, while also ensuring high audio quality and low latency.

# Technical Data snom 320

## GENERAL FEATURES

- **Dimensions:** approx. 250x200x120 mm
- **Weight:** approx. 920 g
- **Certifications:** FCC Class B, CE Mark
- **Average power consumption with PoE:**  
Approx. 2.4–3.2 watts
- **1 x LAN, 1 x PC:** RJ45 (Ethernet)
- **Power:** Input voltage 5V DC, max. 5 W (adapter not included) <sup>(1)</sup>
- **Ethernet:** 2 x IEEE 802.3 10/100 Mbps switch
- **Power over Ethernet:** IEEE 802.3af, Class 1
- **Handset:** 4P4C connector
- **Headset:** (wired) 4P4C connector; wireless via snom EHS Advanced <sup>(2)</sup>
- **Expansion Module:** Proprietary snom connector

## USER INTERFACE

- 2 x 24 character, tiltable semi-graphical display with backlit
- 47 keys, 12 programmable function keys with LEDs (54 with the expansion module)
- Caller-ID
- Message waiting indication LED
- Directory (100 entries)
- Directory import/export
- Speed dialing
- Local dial plan
- Number guessing
- Lists of missed, received and dialed calls (100 entries each)
- Call waiting indication
- Clock, daylight saving, call-timer
- Call blocking (deny list)
- Blocking of anonymous calls
- Handling of up to 12 calls simultaneously
- Menu-driven user interface

- Ring tone selection, import of individual ringtones
- URL Dialing support
- Localization (NLS)
- Do not disturb (DND)
- Speakerphone (full duplex)
- Auto answer mode
- Keyboard lock

## CALL FEATURES

- Hold
- Blind transfer, attended transfer
- Music on hold support <sup>(3)</sup>
- Call forward
- Conferencing (3-way conference bridge on phone)
- Call park, call unpark <sup>(3)</sup>
- Extension monitoring, call pickup <sup>(3)</sup>
- Call completion <sup>(3)</sup>
- Client Matter Code (CMC) <sup>(3)</sup>
- Call waiting/switching between calls
- Automatic redial on busy
- Multicast paging
- Multiple audio device support

## WEB SERVER

- Embedded web server HTTP/HTTPS
- Remote configuration/provisioning
- Dial from web interface
- Password protection
- Diagnostics (tracing, logging, syslog)

## SECURITY, QUALITY OF SERVICE

- HTTPS (server/client)
- Transport Layer Security (TLS)
- SRTP (RFC3711), SIPS
- RTCP, S-RTCP
- VLAN (IEEE 802.1X)
- LLDP-MED

## CODECS, AUDIO

- G.711 A-law,  $\mu$ -law
- G.722, G.729A, G.723.1, G.726
- GSM 6.10 (full rate)
- Comfort noise, voice activity detection

## SIP

- RFC3261 compliance
- UDP, TCP and TLS
- Digest/basic authentication
- PRACK (RFC3262)
- Error-information support
- Reliability of provisional responses (RFC3262)
- Early media support
- DNS SRV (RFC3263), redundant server support
- Offer/answer (RFC3264)
- Message Waiting Indication (RFC3842), subscription for MWI events (RFC3265)
- Dialog-state monitoring (RFC 4235)
- In-band DTMF/out-of-band DTMF/SIP INFO DTMF
- STUN client, ICE (NAT traversal)
- ENUM (RFC3261), NAPTR (RFC2915), rport (RFC3581), REFER (RFC3515)
- Bridged line appearance (BLA)
- Auto provisioning with PnP
- Busy lamp field support (BLF)

## INSTALLATION

- Automatic software update
- Automatic settings retrieval via HTTP/HTTPS/TFTP with authentication
- Installation via web interface
- Remote management via TR-069/TR-111
- Static IP provisioning, DHCP
- NTP

<sup>(1)</sup> Adapter available separately (P/N 2203)

<sup>(2)</sup> snom EHS Advanced available separately (P/N 2362)

<sup>(3)</sup> If supported by PBX

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