snom 320

Innovative SIP based VoIP Phone

- **Tiltable backlit two-line display**
- **12 identies (lines)**
- **47 keys, 13 LEDs**
- **12 programmable function keys**
- **Speakerphone**
- **Power over Ethernet**
- **Ethernet switch**
- **XML mini browser**
- **Expansion module available**

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 2 x 24 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. 250 x 200 x 120 mm
- **Weight:** approx. 920 g
- **Certification** FCC Class B, CE Marking
- **Safety:** IEC 60950-1:2001
- **1 x LAN, 1 x PC:** RJ45 (Ethernet)
- **Power over Ethernet:** IEEE 802.3af, Class 1
- **Power:** PoE or 5V DC power supply listed in the user guide [1]
- **Ethernet:** 2x IEEE 802.3 10/100 Mbps switch
- **Handset:** 4P4C connector
- **Headset:** (wired) 4P4C connector; wireless via snom EHS Advanced [2]
- **Expansion Module**[3]**:** Proprietary snom connector

USER INTERFACE

- Tiltable backlit semi-graphical display, 2 x 24 character lines
- 47 keys, 12 programmable function keys with LEDs (42 additional programmable function keys on the Expansion Module [3])
- Menu-driven user interface
- Localization
- Selection of ring tones, VIP ring tones, integration of customized ring tones
- Call indication with LED
- LED indication for missed calls, waiting messages, and calls on hold
- Speakerphone
- Multiple audio device suppor
- Clock with automatic daylight-saving time
- Call timer

CALL FEATURES

- 12 identities (lines)
- Directory with 100 contact entries
- Import/Export of Directory
- Speed dialing
- URL dialing
- Local dial plan
- Automatic Redial on busy
- Call completion (Busy/Unreachable) [4]
- Caller identification (caller ID)
- Call waiting
- Auto answer
- Call blocking (deny list)
- Blocking of anonymous calls
- Lists of missed, received, and dialed calls
- Hold
- Music on hold [4]
- Handling of up to 12 calls simultaneously
- Blind and attended transfer
- Call forwarding
- 3-way conference on the phone
- Extension monitoring, call pickup [4]
- Call park, call unpark [4]
- Call completion [4]
- Multicast paging
- DND mode (do not disturb)
- Mute microphone
- Keyboard lock
- Client Matter Code (CMC) [4]

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, μ-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)
- 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) [4]
- Auto provisioning with PnP [4]
- Busy lamp field support (BLF) [4]

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

[1] **Available separately: Power supply PSAC10R-050 (snom PN 00002730)**
[2] **Available separately: snom EHS Advanced V2.0 (snom PN 00002362)**
[3] **Available separately: snom Expansion Module V2.0 (snom PN 00001268)**
[4] **If supported by PBX**