snom 820

The **8** experience

snom ®
VoIP phones

CTI inside   snom OCS edition   klarVOICE superior audio quality

- **High-resolution TFT color display**
- **3.5", 320 x 240 pixels**
- **Large call indication LED**
- **37 keys, 9 LEDs**
- **4 freely programmable and 16 customizable function keys**
- **Full duplex speakerphone**
- **WLAN ready through USB**
- **Excellent quality through wideband audio**
- **2 x IEEE 802.3, 10/100 Mbps switch**
- **Power over Ethernet**
- **SIP RFC 3261**
- **Security: SIPS/SRTP, TLS**
- **STUN, ENUM, NAT, ICE**
- **National language support**
- **XML mini browser**

The new **snom 820** VoIP phone unites two of the biggest requirements for modern telephony in one device: mature VoIP technology and design in a class of its own. The SIP-based phone is optimized for professional use, from a technical standpoint as well as from its look.

With its high-resolution TFT color display the **snom 820** offers a brilliant depiction of call lists, phone directories, and caller information via the integrated XML browser. The wideband technology used in the handset makes the user feel as if the caller were in the same room. In hands-free mode, a Class D amplifier reliably suppresses interference noise.

Moreover, the **snom 820** offers all conveniences snom customers have come to expect from the Berlin-based company's phones. They include the use of secure VPN as well as TLS and SRTP, making it almost impossible to hack or misuse data. The **snom 820** comes ready to be used with a WLAN adapter through the USB connector on the phone. The **snom 820** also offers a wide range of functions particularly relevant to the business world, like 5-way conferencing, multiple ringtones, and up to twelve different SIP identities. The user interface is designed for clarity and intuitive operation.

All keys are extremely easy to see and reach from almost any angle, regardless of whether the **snom 820** is set up with the footstand in high or low position!

The new look of the **snom 820** is designed in cooperation with one of the most renowned German industrial designers - and this first model of the new product line of snom phones is living up to the highest expectations in functionality and timeless beauty. The **snom 820** gives the discerning user comfortable access to numerous business functions that have become matter of course in today's telephony.

snom.com

Technical Data snom 820

GENERAL INFORMATION

- Weight, with footstand: approx. 900g
  without footstand: approx. 670g
- Certifications: FCC Class B, CE Mark
- Power consumption: 2.8 – 4.3 watts

CONNECTORS

- 1 x LAN, 1 x PC: RJ45 (Ethernet)
- Power 5V DC
- Ethernet: 2 x IEEE 802.3 10/100 Mbps Switch
- Power over Ethernet: IEEE 802.3af, Class 2
- Handset: RJ-4P4C connector
- Headset: RJ-4P4C connector
- USB 2.0 Full/Low Speed host interface

USER INTERFACE

- High-resolution TFT color display
- 3.5", 320 x 240 pixels
- 37 keys, 9 LEDs
- 4 freely programmable and
  16 customizable function keys
- Comfortable and intuitive menu structure
- Incoming call indication via LED
- Caller identification on display
- LED indication for missed calls
  and new messages
- Directory (250 entries)
- Import/export of directory
- Speed dial
- Local dial plan
- Lists of missed, received,
  and dialed calls (100 entries each)
- Indication of calls on hold
- Clock with automatic daylight-saving time,
  call duration
- Call blocking (deny list)

- Blocking of anonymous calls
- Handling of up to 12 calls simultaneously
- Auto answer mode
- Ringtone selection, VIP ringtones,
  import of individual ringtones
- URL dialing support
- Multiple language support
- DND mode (do not disturb)
- Speakerphone (full duplex)
- Keyboard lock

ADDITIONAL FUNCTIONS

- Extremely easy WLAN connection via USB
- Hold
- Unattended and attended transfer
- Music on hold (if supported by PBX)
- Call forwarding
- 5-way conferencing (bridge on phone)
- Call park, call pickup (if supported by PBX)
- Call completion on busy/not available
- Client Matter Code (CMC)
- Call waiting/switching between calls
- Redialing
- RTP multicast paging
- Multiple audio device support

WEB SERVER

- Embedded HTTP/HTTPS web server
- Remote configuration possible
- Dial from web interface or snom Flexor CTI
- Password protection
- Diagnostics (tracing, logging, syslog)

SECURITY, QUALITY OF SERVICE

- HTTPS (server/client)
- Transport Layer Security (TLS)
- SRTP (RFC 3711), SIPS, RTCP, VLAN (802.1pq)

CODECS, AUDIO

- Wideband audio
- G.711 a-law, μ-law
- G.722, G.723.1, G.726, G.729AB, GSM FR
- iLBC, AMR
- Comfort noise generation (CNG)
- Voice activity detection (VAD)

SIP

- RFC 3261 compliant
- UDP, TCP, and TLS
- Digest/basic authentication
- Loose routing and strict routing
- PRACK (RFC 3262)
- Error information support
- Reliability of provisional responses (RFC 3262)
- Early media support
- DNS SRV (RFC 3263),
  redundant server support
- Offer/answer (RFC 3264)
- Message Waiting Indication (RFC 3842),
  subscription for MWI events (RFC 3265)
- Dialog-state monitoring (RFC 4235)
- In-band/out-of-band/SIP INFO DTMF
- STUN client (NAT traversal)
- ENUM (RFC 3261), NAPTR, (RFC 2915),
  rport (RFC 3581), REFER (RFC 3515)
- Event list subscription support (RFC 4662)
- Bridged line appearance (BLA)
- Auto provisioning with PnP
- Presence/buddylist feature
- Busy lamp field support (BLF)
- Presence publishing

INSTALLATION

- Automatic software updates
- Automatic settings retrieval
  via HTTP/HTTPS/TFTP
- Configuration via web interface
- Static IP, DHCP
- NTP