Snom 821

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Key Features
· High-resolution TFT color display
· Wideband HD Audio quality
· Integrated Gigabit switch
· Large call indication LED
· 37 keys, 9 LEDs
· Local 5-way-conference
· Freely programmable function keys
  (4 hard keys, 12 virtual keys)
· Speakerphone
· WLAN ready
· Power over Ethernet
· SIP RFC 3261
· Security: SIPS/SRTP, TLS
· STUN, ENUM, NAT, ICE and IEEE 802.1X
· Localization
· XML mini browser

The Snom 821 VoIP phone unites two of the biggest requirements for modern telephony in one device: extraordinary VoIP technology and design.

The SIP-based phone is optimized for professional use, from a technical standpoint as well as from its look. The Snom 821 comes with an integrated 1 Gigabit switch on board which enables connected devices to benefit from all modern network installations.

With its high-resolution TFT color display the Snom 821 offers a brilliant depiction of call lists, phone directories, and caller information via the integrated XML mini browser.

The wideband technology - snom klarVOICE HD Audio quality - 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 821 offers all conveniences snom customers have come to expect from our phones.

Furthermore the Snom 821 includes the use of secure VPN as well as TLS and SRTP, making it almost impossible to hack or misuse data. The Snom 821 comes ready to be used with a WLAN adapter through the USB type A connector on the phone.

The Snom 821 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 was designed for clarity and intuitive operation.

All keys are extremely easy to see and reach from almost any angle, whether the Snom 821 is set up with the footstand in high (55°) or low (33°) position!

The look of the snom 8xx series was designed in cooperation with one of the most renowned German industrial designers.

The Snom 821 gives the discerning user comfortable access to numerous business functions that have become matter of course in today's telephony.

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General Information

· Weight, with footstand: approx. 900 g
  without footstand: approx. 670 g
· Certifications: FCC Class B, CE Mark
· Average power consumption with PoE: 2.0-2.4 W
  (without USB peripherals)
· 1 x LAN, 1 x PC: RJ45 (Ethernet)
· Power: Input voltage 5V DC, max. 10 W
· Ethernet: 2 x IEEE 802.3/1 Gigabit Switch
· Power over Ethernet: IEEE 802.3af, Class 2
· USB port: 1 x type A, USB 2.0 Hi/Full/Low Speed-
  compatible host interface
· Handset: 4P4C connector
· Headset: (wired) 4P4C connector or wireless via
  snom EHS Advanced[1]
· Colors: Black and light-gray

User Interface

· High-resolution TFT color display
· 3.5", 320 x 240 pixels
· 37 keys, 9 LEDs
· 4 freely programmable keys,
  4 variable function keys
· 12 freely programmable virtual keys
· Comfortable and intuitive menu structure
· Incoming call indication via LED
· Caller identification on display
· LED indication for missed calls
  and new messages
· Directory (up to 1000 entries)
· Import/export of directory
· Speed dial
· Local dial plan
· Lists of missed, received,
  and dialed calls (250 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

Additional Functions

· Hold
· Unattended and attended transfer
· Music on hold[2]
· Call forwarding
· 5-way conferencing (bridge on phone)
· Call park, call unpark[2]
· Extension monitoring, call pickup[2]
· Call completion on busy/not available[2]
· Client Matter Code (CMC)[2]
· Call waiting/switching between calls
· Automatic redial on busy
· Multicast paging
· Multiple audio device support
· Unified Communications with snom CTI und
  snom OCS edition

Web Server

· Built in HTTP/HTTPS web server
· Remote configuration/provisioning
· Dial from web interface or snom CTI
· Password protection
· Diagnostics (tracing, logging, syslog)

Security, Quality of Service

· HTTPS (server/client)
· Transport Layer Security (TLS)
· SRTP (RFC 3711), SIPS, RTCP, VLAN (IEEE 802.1Q)
· LLDP-MED

Codecs, Audio
· Wideband audio
· G.711 a-law, μ-law
· G.722, G.723.1, G.726, G.729AB
· 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)
· NAPTR, (RFC 2915), rport (RFC 3581),
  REFER (RFC 3515)
· Event list subscription support (RFC 4662)
· Bridged line appearance (BLA)
· Auto provisioning with PnP
· Presence/Buddy-list feature
· Busy lamp field support (BLF)
· Presence publishing

[1] snom EHS Advanced available separately (P/N 2362)
[2] If supported by PBX
[3] Not included

Installation

· Automatic software updates
· Automatic settings retrieval
  via HTTP/HTTPS/TFTP
· Configuration via web interface
· Remote management via TR-069/TR-111
· Easy WLAN binding via USB adapter[3]
· Static IP, DHCP
· NTP