

# D812



USB port



Expansion  
module  
connectable



HD audio



Anti-bacterial  
housing



SmartLabel



Security (TLS  
& SRTP)



OpenVPN

## The perfect everyday companion

The Snom D812 is another entry-level device in Snom's professional D8xx series. Equipped with a large display, it offers a unique quality in its price segment. The 8 freely programmable SmartLabel keys allow individual adaptation to the needs of the user - be it for setting up call groups, speed dials or similar functions. With its

modern technology, excellent voice quality and elegant design, the D812 offers everything that is required for contemporary office communication - and all at an extremely attractive price. Welcome to the world of professional IP telephony with the Snom D812!

## Basics

- Product information
  - IP desk phone D812 | gunmetal black | PN 00004690, EAN 4262377560921, UPC 810100350925
  - Anti-bacterial housing
  - Operating system: Linux
- Placement
  - Indoor, desktop, wall mounting<sup>1</sup>

## Dimensions and weight

- Dimensions (L × W × H, approx.)
  - 210 mm × 243 mm × 45 mm without footstand
  - 193 mm × 243 mm × 165 mm with footstand
- Weight (approx.)
  - 1.12 kg with footstand

## Display and indicators

- Display
  - TFT liquid crystal display (LCD): IPS panel, true colour, backlit
  - Size (diagonal): 5.0" (127 mm)
  - Size (W × H): 110 mm × 62 mm
  - Resolution: 480 × 272 pixel
- 13 LED indicators
  - Call status indication: 1 red LED
  - Message waiting indication (MWI): 1 red LED
  - Function key status indication: 8 multicolour LEDs
  - Audio key status indication: 3 LEDs (1 red / 2 green)

## Keypad and function keys

- 39 hard keys in total
  - 12 keys (standard ITU telephone keypad)
  - 5-way navigation key
  - 4 context-sensitive function keys
  - Programmable function keys
    - 8 SmartLabel keys (with multicolour LED)

- Key mapping of up to 32 functions (8 keys × 4 pages)
- 5 dedicated audio keys
  - Mute (with red LED)
  - Speakerphone (with green LED)
  - Headset (with green LED)
  - Volume + / - (rocker)
- 5 dedicated function keys
  - Cancel
  - Message (with red LED)
  - Transfer
  - Hold
  - Redial
- Keyboard lock
- Expansion module connection via USB port for up to 3 × D8C<sup>1</sup>

## Interfaces and connections

- Power options
  - [Power over Ethernet \(PoE\)](#)
    - IEEE 802.3af, class 3 | IEEE 802.3az<sup>3</sup>
  - Power adapter<sup>1</sup>
    - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W<sup>1</sup>
- Wired interfaces
  - Power adapter: coaxial power connector (socket)
  - Network connectivity: 2 × RJ45-8P8C sockets (*NET, PC*) → Gigabit Ethernet (GbE)
  - USB connectivity: USB 2.0 type A port
  - Corded handset: RJ9-4P4C socket
  - Headset: RJ9-4P4C socket
  - [EHS adapter](#):<sup>1</sup> RJ12-6P6C socket
- Wireless interfaces
  - Third party headset support
    - [DECT: optional via A230](#)<sup>1</sup>
  - Network connectivity: [WLAN optional via A210](#)<sup>1</sup>
- Sensors
  - Hook switch sensor

## Audio devices, codecs and features

- Casing microphone | Casing speaker
  - Frequency range: 100 Hz - 8.0 kHz
  - Speakerphone mode: Full duplex, HD audio, Acoustic Echo Cancellation (AEC)
- Corded handset:  
Microphone | Handset earpiece  
Frequency range: 150 Hz - 8.0 kHz  
Noise cancellation, HD audio, Hearing aid compatible (HAC)
- Audio codecs
  - G.711 (A-law,  $\mu$ -law), G.722, G.723.1, G.726, G.729AB, GSM6.10(FR), Opus
- Dual-tone multi-frequency signalling (DTMF / RFC2833):
  - SIP-INFO, in-band, out-of-band
- Related features
  - Comfort Noise Generator (CNG)
  - Voice Activity Detection (VAD)
  - Audio response time
  - Adaptive jitter buffer
  - Packet loss concealment (PLC)

## User interfaces and setup

- [Configuration and setup via menu-driven web user interface \(WUI\)](#)
  - Password-protected login
  - Secure web server/client (HTTPS)
- [Configuration and setup via menu-driven phone user interface \(PUI\)](#)
- [Automatic configuration via provisioning](#)
  - Loading of settings and firmware via HTTP, HTTPS, TFTP

- Supported DHCP provisioning options 43 / 60 / 66 / 67
- [Secure Redirection And Provisioning Service \(SRAPS\) support](#)
- [Remote management via TR-069 / TR-069 Annex G \(TR-111\) / TR-369](#)
- Plug & Play (PnP) support
- Localisation
  - [Languages](#)
  - Time zone, dial tone
- Diagnostic
  - SIP / PCAP trace
  - Syslog
- Related features
  - Dual firmware partition

## Networking technologies and protocols

- Network technologies
  - [OpenVPN, VLAN \(IEEE 802.1q\)](#)
- VoIP related protocols and techniques
  - [SIP, SDP, RTP, RTCP, RTCP-XR, SIP REFER method \(RFC 3515\), rport \(RFC 3581\), ENUM, ICE, STUN](#)
- Secure VoIP protocols
  - [SIPS \(SIP over TLS\), SRTP, SRTCP](#)
- Network protocols
  - IPv4 / IPv6 (dual stack), [DHCP, NTP, LDAP, LLDP-MED, HTTP, TFTP, L2TP](#)
- Secure network protocols
  - [TLS V1.2 HTTPS, IEEE 802.1X \(EAPoL\)](#)
- Remote management protocols
  - [TR-069, TR-069 Annex G \(formerly TR-111\), TR-369 \(USP\)](#)

## Directory support and call features

- 12 SIP identities / accounts
  - Up to 12 simultaneous calls
- Directory support
  - [LDAP \(server-based directory\)](#)
  - [Local directory with up to 2,000 entries](#)
- Outgoing call features
  - Speed dialling via function keys
  - Speed dialling
  - [URL dialling](#)
  - [Local dial plan](#)
  - Redial (via dialled calls list)
  - Automatic redial on busy
  - Caller identification (CLIP)
  - Calling Line Identification Restriction (CLIR)
  - [Call completion \(busy/unreachable\)<sup>2</sup>](#)
  - [Intercom](#)
  - [Multicast paging](#)
- Incoming call features
  - [Call waiting/swapping](#)
  - Auto answer
  - **Call barring / blocking:** deny list, anonymous calls, Do Not Disturb (DND) mode
  - [Call diversion](#)
  - [Call deflection](#)
- Connected call features
  - Mute microphone
  - Hold

- Music on hold<sup>2</sup>
- [Blind call transfer](#)
- [Attended call transfer](#)
- 2+1 (4+1) local conferencing<sup>3</sup>
- Call park / unpark<sup>2</sup>
- Client Matter Code (CMC)<sup>2</sup>
- Related features
  - Call history lists of missed, received, dialed, rejected, and deflected calls
  - [Extension monitoring \(Busy lamp field\), call pickup<sup>2</sup>](#)

## Package contents

- Hardware
  - IP desk phone D812
  - Corded handset
  - Footstand
  - Ethernet cable: 1.5 m
- Documentation
  - [Quick Installation Guide](#)
  - [General Public License \(GNU\)](#)

## Environmental conditions

- Operating ambient temperature:
  - 0 °C - +35 °C
- Nonoperating (storage) temperature:
  - -10 °C - +45 °C
- Humidity (non-condensing):
  - 5 % - 95 %

<sup>1</sup> Available separately

<sup>2</sup> If supported by PBX

<sup>3</sup> Optional via software

## Snom accessories

- PoE injector A5E (PN 00004079)
- Power adapter Snom 10W PSU (PN 00004570)
- **Wall mount kit** D8xx WM-M (PN 00004544)
- Corded wideband handset D8xx WB handset (PN 00004561)



## Compatible Snom devices

- Expansion module D8C (PN 00004562)
- EHS adapter EHS Advanced 2.0 (PN 00002362)
- USB dongle
  - WiFi: A210 (PN 00004384)
  - Bluetooth: A220 (PN 00004648)
  - DECT: A230 (PN 00004386)



- DECT headset via RJ9+EHS / USB A170C (PN 00004733)



- Wired headset via USB

- Binaural: A330D (PN 00004598)



- Monaural: A330M (PN 00004597)



- Wired headset via RJ9

- Monaural: A100M (PN 00004341)



- Binaural: A310D (PN 00004626)



- Monaural: A310M (PN 00004624)



- BT headset via Bluetooth dongle

- Monaural: A350M (PN 00004658)



- Binaural: A350D (PN 00004795)



- Wireless conference speakerphone (USB) C300 (PN 00004584)



## Interoperability



## Series overview



## Disclaimer

Further information: [D812 webpage](#) | [Snom Service Hub D812](#) | [Quick Installation Guide D812](#) | [User manual D812](#) | [Short User Manual D812](#) | [General Public License \(GNU\)](#) | [Type approval](#) | [Warranty information](#) | [Company locations](#)

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