

# D785 / D785N



Bluetooth  
(only D785)



USB port



Power over  
Ethernet  
(PoE)



IPv6 & IPv4



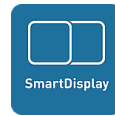
Gigabit  
Ethernet



Expansion  
module  
connectable



Headset  
connectable



SmartDisplay



Security (TLS  
& SRTP)



OpenVPN



HD audio

## The next generation of VoIP

The IP desk phone D785 offers the highest demands and intuitive ease of use with its elegant, timeless and modern design, its large high-resolution colour display, its second function key display and the revised user interface. Thanks to the latest technical

know-how "Made in Germany", a previously unattained HD audio quality is possible. The integrated Bluetooth interface allows headsets to be connected wirelessly.

## Product variants



D785 | black | PN 00004349



D785 | white | PN 00004392



D785N | black | PN 00004599

## Basics

- Product information
  - IP desk phone D785/D785N
  - Operating system: Linux
- Placement: indoor, desktop, wall mounting

- Message waiting indication (MWI): 1 red LED
- Function key status indication: 6 multicolour LEDs
- Audio key status indication: 3 LEDs (1 red / 2 green)

## Dimensions and weight

- Dimensions (L × W × H, approx.) without footstand
  - 220 mm × 205 mm × 35 mm
- Dimensions (H × W × D, approx.) with footstand
  - 220 mm × 205 mm × 190 mm (high angle 46°)
  - 210 mm × 205 mm × 150 mm (low angle 28°)
- Weight (approx.):
  - 990 g with footstand
  - 750 g without footstand

## Display and indicators

- Display
  - TFT liquid crystal display (LCD): true colour, backlit
  - Size (diagonal): 4.3" (109 mm)
  - Size (W × H): 95 mm × 54 mm
  - Resolution: 480 × 272 pixel
- SmartDisplay
  - TFT liquid crystal display (LCD): monochrome, graphical
  - Size (diagonal): 2.8" (70 mm)
  - Size (W × H): 66 mm × 23 mm
  - Resolution: 254 × 100 pixel
- 11 LED indicators
  - Call status indication: 1 red LED

## Interfaces and connections

- Power options
  - [Power over Ethernet \(PoE\)](#)
    - IEEE 802.3af, class 2/3<sup>4</sup>
  - Power adapter<sup>2</sup>
    - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W
- Wired interfaces
  - Power adapter: coaxial power connector (socket)
  - Network connectivity: 2 × RJ45-8P8C sockets (PC/NET) → Gigabit Ethernet (GbE)
  - [USB headsets and other accessories](#): USB 2.0 type A port
  - Corded handset: RJ9-4P4C socket
  - Headset: RJ9-4P4C socket
  - [EHS adapter](#):<sup>2</sup> RJ12-6P6C socket
- Wireless interfaces
  - Third party headset support: Bluetooth 4.0, class 2<sup>1</sup>
  - Network connectivity: [WLAN optional via A210](#)<sup>2</sup>
- Sensors
  - Hook switch sensor

## Keypad and function keys

- 42 hard keys in total
  - 12 keys (standard ITU telephone keypad)
  - 5-way navigation key
  - 4 context-sensitive function keys
  - Programmable function keys
    - 6 SmartLabel keys (with multicolour LED)
    - Key mapping of up to 24 functions (6 keys × 4 pages)
- 5 dedicated audio keys
  - Mute (with red LED)
  - Speakerphone (with green LED)
  - Headset (with green LED)
  - Volume + / - (rocker)
- 10 dedicated function keys
  - Ok
  - Cancel
  - DND
  - Message (with red LED)
  - Directory
  - Menu
  - Transfer
  - Hold
  - Page (rocker)
- [Expansion module connection via USB port for up to 3 × D7 / D7C<sup>2</sup>](#)
- Keyboard lock

## Audio devices, codecs and features

- Casing microphone | Casing speaker
  - Speakerphone mode: Full duplex, HD audio
- Corded handset
  - Microphone | Handset earpiece
  - Hearing aid compatible (HAC)

- Audio codecs
  - G.711 (A-law,  $\mu$ -law), G.722, G.726, G.729, GSM 6.10 (FR), Opus
- Dual-tone multi-frequency signalling (DTMF / RFC2833)
  - SIP-INFO, in-band, out-of-band
- Related features
  - Built-in assignable ringtones
  - Comfort Noise Generator (CNG)
  - Voice Activity Detection (VAD)

## 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 66 / 67
  - [Secure Redirection And Provisioning Service \(SRAPS\)](#) support
  - Plug & Play (PnP) support
  - [Remote management via TR-069 / TR-069 Annex G \(TR-111\)](#)
- Customisation
  - [XML browser](#)
- Localization
  - [Languages](#)
  - Time zone, dial tone
- Diagnostic
  - SIP / PCAP trace
  - Syslog

## Networking technologies and protocols

- Bluetooth: 4.0+EDR, class 2<sup>1</sup>
- 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)

## Interoperability

- Certified VoIP partner

## 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 1,000 entries](#)
- Outgoing call features
  - Speed dialling via function keys
  - [URL dialling](#)
  - [Local dial plan](#)
  - Redial (via dialed calls list)
  - Automatic redial on busy
  - Caller identification (CLIP)
  - Calling Line Identification Restriction (CLIR)
  - [Call completion \(busy/unreachable\)](#)<sup>3</sup>
  - [Intercom](#)
  - [Multicast paging](#)
- Incoming call features
  - [Call waiting/swapping](#)

- Call barring/blocking: deny list, anonymous calls, Do Not Disturb (DND) mode
- Auto answer
- [Call diversion](#)
- Connected call features
  - Mute microphone
  - Hold
  - Music on hold<sup>3</sup>
  - [Blind call transfer](#)
  - [Attended call transfer](#)
  - 3-way local conferencing
  - Call park / unpark<sup>3</sup>
  - Client Matter Code (CMC)<sup>3</sup>
- Related features
  - Call history lists of missed, received, dialed, rejected, and deflected calls
  - [Extension monitoring \(Busy lamp field\), call pickup](#)<sup>3</sup>

## Environmental conditions

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

## Package contents

- Hardware
  - IP desk phone D785 / D785N
  - Footstand
  - Corded handset
  - Ethernet cable
- Documentation
  - [Quick Installation Guide](#)
  - [GNU General Public License](#)

## Snom accessories and compatible devices

- Power adapter
  - Snom 10 W PSU (PN 00004570)
- USB dongle
  - WLAN: A210 (PN 00004384)
  - DECT: A230 (PN 00004386)
- EHS adapter
  - EHS Advanced 2.0 (PN 00004343)
- Wired headset via RJ9
  - Binaural: A100D (PN 00004342), A310D (PN 00004626)
  - Monaural: A100M (PN 00004341), A310M (PN 00004624)
- Wired headset via USB
  - Binaural: A330D (PN 00004598)
  - Monaural: A330M (PN 00004597)
- DECT headset via RJ9
  - A170 (PN 00004387)
- DECT headset via USB (DECT)
  - A150 (PN 00004388)
- Expansion module
  - D7 (EoS) (PN 00004011)<sup>5</sup>, D7 (PN 00004382)
  - D7C (PN 00004467)
- Wireless conference speakerphone (Bluetooth, USB)<sup>1</sup>
  - C300 (PN 00004584)



10 W PSU



A210



A230



EHS 2.0



D7 (EoS)



D7



D7C



C300



A100D



A100M



A310D



A310M



A330D



A330M



A170



A150

<sup>1</sup> D785N only black and without Bluetooth

<sup>2</sup> Available separately

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

<sup>4</sup> Class 2 w/o USB and Bluetooth

<sup>5</sup> EoS (End of sale)

## Series overview



D713



D715



D717



D735



D785 / D785N



D7



D7C

## Disclaimer

Further information : [Snom D785/D785N webpage](#) | [Snom Service Hub](#) | [Type approval](#) | [Warranty information](#) | [Company locations](#)

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