

# D785 / D785N



Bluetooth  
(Not D785N)



USB port



Power over  
Ethernet  
(PoE)



IPv6 & IPv4



Gigabit  
Ethernet



Expansion  
Module  
connectable



Headset  
connectable



Self-  
Labeling  
keys



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 "Engineered in Germany", a previously unattained HD audio quality is possible. The integrated Bluetooth interface allows headsets to be connected wirelessly. <sup>1</sup>

## Technical Specifications

### Basics

- Operating system Linux
- Wall mountable
- Product numbers
  - D785 | black | PN 00004349
  - D785 | white | PN 00004392
  - D785N | black | PN 00004599

### Display and indicators

- Display
  - TFT liquid crystal display (LCD), true colour, backlit
  - Display size (W x H) 95 mm x 53.9 mm
  - 4.3" (109 mm) display size (diagonal)
  - Resolution 480 x 272 pixel
- Function key display
  - TFT liquid crystal display (LCD), monochrome, graphic
  - Display size (W x H) 66 mm x 23 mm
  - 2.8" (70 mm) display size (diagonal)
  - Resolution 254 x 100 pixel
- 11 LED indicators
  - 1 red LED for call status indication
  - 1 red LED for message waiting indication (MWI)
  - 6 multicolour LEDs for function key indication
  - 3 LEDs (1 red / 2 green) for audio key indication

### Keypad and function keys

- 42 hard keys in total
- Standard ITU telephone keypad: 12 keys with star and pound/hash key
- 5-way navigation key
- 4 context-sensitive function keys
- Programmable line / function keys
  - 6 self-labelling keys with multicolour LED
  - Multiple key occupancy up to 24 functions on 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, PFK page (rocker)
- Related features
  - Keyboard lock

### Dimensions and weight

- Dimensions (L x W x H, approx.)
  - 230 mm x 205 mm x 90 mm w/o footstand
  - 190 mm x 205 mm x 200/220 mm with footstand
- Weight (approx.)
  - 990 g with footstand
  - 750 g w/o footstand
- Inclination
  - High angle 46°
  - Low angle 28°

### Audio devices, codecs and features

- [Headset connectivity](#)<sup>4</sup>
  - USB headset via USB
  - Wired headset via RJ9-4P4C
  - Compatible wireless headset via EHS
  - BT headset via integrated Bluetooth<sup>1</sup>
- Corded receiver
  - Hearing Aid Compatible (HAC)
- Audio codecs
  - G.711 (A-law,  $\mu$ -law), G.722, G.726, G.729, GSM 6.10 (FR)
- Dual-tone multi-frequency signalling (DTMF)
  - in-band, out-of-band, SIP-INFO
- Related features
  - Built-in assignable ringtones
  - Comfort Noise Generator (CNG)
  - Voice Activity Detection (VAD)

### Interfaces and connections

- D785 / D785N power options
  - Power over Ethernet (PoE), IEEE 802.3af, class 3
  - Power adapter: 100 - 240 V AC / 50 - 60 Hz | 5 V DC (SELV) / 2 A / 10 W<sup>2</sup>
- Wired interfaces
  - 1 coaxial power adapter connector
  - 2 RJ45-8P8C Gigabit Ethernet ports
  - [1 USB 2.0 type A port for USB headsets and other accessories](#)<sup>4</sup>
  - 1 RJ9-4P4C standard connector for corded receiver
  - 1 RJ9-4P4C standard connector for wired headset connection<sup>2</sup>
  - 1 RJ12-6P6C EXT connector for Snom EHS adapter
  - Expansion module connection via USB port for up to 3 D7 / D7C<sup>2</sup>
- Wireless interfaces
  - Bluetooth 4.0 class 2<sup>1</sup>
  - WLAN optional via Snom USB WLAN dongle<sup>2</sup>

## Technical Specifications

### User interfaces and setup

- Configuration and setup via menu-driven web user interface (WUI)
  - Password-protected login
  - Secure web server/client (HTTPS)
  - Languages
- Configuration and setup via menu-driven phone user interface (PUI)
  - Languages
- 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
  - Remote management via TR-069 / TR-069 Annex G (formerly TR-111)
  - Plug & Play (PnP) support
- Localization
  - Timezone
  - Dial tone
- Diagnostic
  - SIP trace, PCAP trace, Syslog
- Related features
  - XML browser

### Technologies and protocols

- Bluetooth V4.0+EDR<sup>1</sup>
- Network technologies
  - OpenVPN, VLAN (IEEE 802.1Q)
- VoIP related protocols and techniques
  - SIP (RFC 3261), SDP (RFC 3261), RTP (RFC 8866), RTCP (RFC 3550), RTCP-XR, SIP REFER method (RFC 3515), rport (RFC 3581), ENUM, ICE, STUN (RFC 5389)
- Secure VoIP protocols
  - SIPS (SIP over TLS), SRTP (RFC 3711), 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)

### 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: via deny list, Anonymous calls
  - Auto answer
  - Call diversion
  - Do Not Disturb (DND) mode
- 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, call pickup<sup>3</sup>

### Interoperability

- Certified VoIP partner

# Technical Specifications

## Environmental conditions

- Operating ambient temperature:
  - 0 °C to 35 °C (32 °F to 95 °F)
- Nonoperating temperature:
  - - 10 °C to 45 °C (14 °F to 113 °F)
- Humidity (non-condensing): 5 % - 95 %

## Type approval and standards conformance

- Information technology equipment - Safety 60950
- CE marking
- WEEE 2012/19/EU

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

<sup>2</sup> Available separately

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

<sup>4</sup> [Please check compatibility list](#)

## Package contents

- Desk phone unit
- Footstand
- Corded receiver
- 1.5 m (5 ft) Ethernet cable
- Quick Installation Guide (QIG)
- GNU General Public License

## Accessories

- 00004570 | [10 W Power adapter](#)
- 00004342 | [A100D](#) | Binaural headset
- 00004341 | [A100M](#) | Monaural headset
- 00004388 | [A150](#) | DECT headset
- 00004387 | [A170](#) | DECT headset
- 00004384 | [A210](#) | USB WLAN dongle
- 00004386 | [A230](#) | USB DECT dongle
- 00004343 | [ACUSB](#) | Headset adapter
- 00004011 | [D7](#) | Expansion module | black
- 00004382 | [D7](#) | Expansion module | white
- 00004467 | [D7C](#) | Expansion module | black
- 00002362 | [EHS Advanced 2.0](#)

## Series overview



D712



D713



D715



D717



D735



D785



D7



D7C

## Disclaimer

For further product information visit: [Snom website](#) | [Snom Service Hub](#) | [Warranty information](#)

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