

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. ¹

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](#)⁴
 - USB headset via USB
 - Wired headset via RJ9-4P4C
 - Compatible wireless headset via EHS
 - BT headset via integrated Bluetooth¹
- Corded receiver
 - Hearing Aid Compatible (HAC)
- Audio codecs
 - G.711 (A-law, μ -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 W²
- 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](#)⁴
 - 1 RJ9-4P4C standard connector for corded receiver
 - 1 RJ9-4P4C standard connector for wired headset connection²
 - 1 RJ12-6P6C EXT connector for Snom EHS adapter
 - Expansion module connection via USB port for up to 3 D7 / D7C²
- Wireless interfaces
 - Bluetooth 4.0 class 2¹
 - WLAN optional via Snom USB WLAN dongle²

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+EDR¹
- 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)³
 - 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 hold³
 - Blind call transfer
 - Attended call transfer
 - 3-way local conferencing
 - Call park / unpark³
 - Client Matter Code (CMC)³
- Related features
 - Call history lists of missed, received, dialed, rejected, and deflected calls
 - Extension monitoring, call pickup³

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

¹ D785N only black and without Bluetooth

² Available separately

³ If supported by PBX

⁴ [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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