

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

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

Interfaces and connections

- Power options
 - [Power over Ethernet \(PoE\)](#)
 - IEEE 802.3af, class 2/3⁴
 - Power adapter²
 - 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](#):² RJ12-6P6C socket
- Wireless interfaces
 - Third party headset support: Bluetooth 4.0, class 2¹
 - Network connectivity: [WLAN optional via A210](#)²
- 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 / D7C²](#)
- 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, μ -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 2¹
- 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 \(busy/unreachable\)](#)³
 - [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 hold³
 - [Blind call transfer](#)
 - [Attended call transfer](#)
 - 3-way (2+1) 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 \(Busy lamp field\)](#), [call pickup](#)³

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

- PoE injector
 - A5E (PN 00004079)
- 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: 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 / USB
 - A170C (PN 00004733)
- BT headset via Bluetooth dongle
 - A350M (PN 00004658)
- Expansion module
 - D7C (PN 00004467)
 - D7 (PN 00004382)
- Wireless conference speakerphone (Bluetooth, USB)
 - C300 (PN 00004584)



A5E



10 W PSU



A210



A230



EHS 2.0



D7



D7C



C300



A100M



A170C



A310D



A310M



A330D



A330M



A350M

¹ D785N only black and without Bluetooth

² Available separately

³ If supported by PBX

⁴ Class 2 w/o USB and Bluetooth

Series overview



D713



D715



D717



D735



D785 / D785N



D7



D7C

Disclaimer

[Further information : Snom D785/D785N webpage](#) | [Snom Service Hub D785 / D785N](#) | [Quick Installation Guide D785 / D785N](#) | [Short User Manual D785 / D785N](#) | [Type approval](#) | [Warranty information](#) | [Company locations](#)

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