





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 D787 offers the highest demands and intuitive ease of use with its elegant, timeless and modern design, its large high-resolution colour display, its additional SmartDisplay and the revised user interface. Thanks to the latest technical

“Engineered in Germany” know-how, a previously unattained HD audio quality is possible. The integrated WLAN interface allows wireless connectivity.

Product variants



D785 | black | PN 00004349



D785 | white | PN 00004392



D785N | black | PN 00004599

Basics

- Product information
 - IP desk phone
 - Operating system: Linux
- Placement: indoor, desktop, wall mounting²

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)

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, PFK page (rocker)
- [Expansion module connection via USB port for up to 3 × D7 / D7C²](#)
- Keyboard lock

Audio devices, codecs and features

- Corded receiver
 - Hearing aid compatible (HAC)
- Speakerphone mode
 - HD audio
- Audio codecs
 - G.711 (A-law, μ -law), G.722, G.726, G.729, GSM 6.10 (FR)
- 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](#)
 - Timezone, dial tone
- Diagnostic
 - SIP trace, PCAP trace, Syslog

Interfaces and connections

- D785 / D785N power options
 - Power over Ethernet (PoE)
 - IEEE 802.3af, class 3
 - IEEE 802.3af, class 2 (no USB, no BT in use)
 - Power adapter¹
 - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W
- Wired interfaces
 - Power adapter: coaxial power connector (socket)
 - Ethernet 1 Gbit/s: 2 × RJ45-8P8C sockets
 - [USB headsets and other accessories](#): USB 2.0 type A port
 - Corded receiver: RJ9-4P4C socket
 - Headset: RJ9-4P4C socket
 - EHS adapter:² RJ12-6P6C socket
- Wireless interfaces
 - Bluetooth: 4.0, class 2¹
 - [WLAN: optional via A210](#)²
- Sensors
 - Hook switch sensor

Networking technologies and protocols

- Bluetooth: 4.0+EDR, class 2¹
- 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 \(formerly TR-111\)](#)

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 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 pickup³

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 receiver
 - Ethernet cable
- Documentation
 - Quick Installation Guide (QIG)
 - 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)
 - Monaural: A100M (PN 00004341)
- 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 (PN 00004011, 00004382)
 - D7C (PN 00004467)
- Wireless conference speakerphone (Bluetooth, USB)¹
 - C300 (PN 00004584)

Snom accessories and compatible devices



10 W PSU



A210



A230



EHS 2.0



D7



D7C



C300



A100D



A100M



A330D



A330M



A170



A150

¹ D785N only black and without Bluetooth

² Available separately

³ If supported by PBX

Series overview



D713



D715



D717



D735



D785 / D785N



D7



D7C

Disclaimer

Further information : [Snom website](#) | [Snom Service Hub](#) | [Type approval](#) | [Warranty information](#)

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