# D785 / D785N



- High-resolution colour display
- 4 x 6 (24) self-labelling multi-colour LED function keys
- Bluetooth connectivity [1]
- HD audio speakerphone
- Gigabit Ethernet switch with PoE support
- USB port
- Wireless headset connection via EHS

Bluetooth (Not D785N) | USB-Anschluss | 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, available in black and white, 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. [1]
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]

## Basics

- Operating system Linux
- 3-year warranty
- Wall mountable[2]
- Product numbers
  - D785 | black | PN 00004349
  - D785 | white | PN 00004392
  - D785N | black | PN 00004599

## 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°

## 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

## 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 hold[3]
  - Blind call transfer
  - Attended call transfer
  - 3-way local conferencing
  - Call park / unpark[3]
  - Client Matter Code (CMC)[3]
- Related features
  - Call history lists of missed, received, dialed, rejected, and deflected calls
  - Extension monitoring, call pickup[3]


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## 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

## 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 Bluetooth[1]
- 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)

## 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% |

## Technologies and protocols

- Bluetooth V4.0+EDR[1]
- 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 support
- Remote management protocols
  - TR-069, TR-069 Annex G (formerly TR-111)

## 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
- Related features
  - XML browser

## Package contents

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


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## 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[2]
- 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 connection[2]
  - 1 RJ12-6P6C EXT connector for Snom EHS adapter
  - Expansion module connection via USB port for up to 3 D7 / D7C[2]
- Wireless interfaces
  - Bluetooth 4.0 class 2[1]
  - WLAN optional via Snom USB Wi-Fi dongle[2]

## Interoperability

- Certified VoIP partner

## 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

[1] D785N only black and w/o Bluetooth
[2] Available separately
[3] If supported by PBX
[4] Please check compatibility list

## Series overview


D712


D713


D715


D717


D735


D785

## Disclaimer

For further product information, visit: Snom website | Snom Service Hub | Warranty information
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