

D787



WLAN



USB port

Power over
Ethernet
(PoE)Gigabit
Ethernet

SmartDisplay



HD audio

Expansion
module
connectableHeadset
connectableSecurity
(TLS & SRTP)

OpenVPN

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.

Basics

- Product information
 - IP desk phone **D787** | black | PN **00004620**
 - 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)

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
 - Headset (with green LED)
 - Mute (with red LED)
 - Speakerphone (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

Interfaces and connections

- Power options
 - [Power over Ethernet \(PoE\)](#)
 - IEEE 802.3af, class 2/3³ | IEEE 802.3az⁴
 - 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)
 - Network connectivity: 2 × RJ45-8P8C sockets (PC/NET) → Gigabit Ethernet (GbE)
 - [USB headsets and other accessories](#): 2 × USB 2.0 type A ports
 - Corded handset: RJ9-4P4C socket
 - Headset: RJ9-4P4C socket
 - [EHS adapter](#):¹ RJ12-6P6C socket
- Wireless interfaces
 - Wireless LAN
- Sensors
 - Hook switch sensor

Audio devices, codecs and features

- Casing microphone | Casing speaker
 - Speakerphone mode: Full duplex, HD audio , Acoustic echo cancellation (AEC)
- 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 \(TR-111\) / TR-369](#)
- Customisation
 - [XML browser](#)
- Localization
 - [Languages](#)
 - Time zone, dial tone
- Diagnostic
 - SIP / PCAP trace
 - Syslog

Networking technologies and protocols

- Wireless LAN
 - Frequency band (2G): 2,400.0 - 2,483.5 MHz
 - IEEE 802.11b (Wi-Fi 2): up to 11 Mbps
 - IEEE 802.11g (Wi-Fi 3): up to 54 Mbps
 - IEEE 802.11n (Wi-Fi 4): up to 150 Mbps
 - Frequency band (5G): EU: 5,150 - 5,350 MHz, 5,470 - 5,725 MHz | Americas: 5,150 - 5,350 MHz, 5,470 - 5,825 MHz
 - IEEE 802.11a (Wi-Fi 1): up to 54 Mbps
 - IEEE 802.11n (Wi-Fi 4): up to 150 Mbps
 - IEEE 802.11ac (Wi-Fi 5): up to 433 Mbps
 - WLAN encryption
 - WPA-PSK/WPA2-PSK, WPA/WPA2, WEP
- 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)

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 5,000 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 \(busy/unreachable\)²](#)
 - [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 hold²
 - [Blind call transfer](#)
 - [Attended call transfer](#)
 - 3-way local conferencing
 - Call park / unpark²
 - Client Matter Code (CMC)²
- Related features
 - Call history lists of missed, received, dialed, rejected, and deflected calls
 - [Extension monitoring \(Busy lamp field\), call pickup²](#)

Interoperability

- [Certified VoIP partner](#)

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 D787
 - Footstand
 - Corded handset
 - Ethernet cable
- Documentation
 - [Quick Installation Guide](#)
 - [GNU General Public License](#)

Snom accessories and compatible devices¹

- Power adapter
 - [Snom 10 W PSU \(PN 00004570\)](#)
- USB dongle
 - DECT: [A230 \(PN 00004386\)](#)

- EHS adapter
 - [EHS Advanced 2.0 \(PN 00002362\)](#)
- Wired headset via RJ9
 - Binaural: [A100D \(PN 00004342\)](#), [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
 - [A170 \(PN 00004387\)](#)
- DECT headset via USB (DECT)
 - [A150 \(PN 00004388\)](#)
- Expansion module
 - [D7 \(EoS\) \(PN 00004011\)](#)⁵, [D7 \(PN 00004382\)](#)
 - [D7C \(PN 00004467\)](#)
- Wireless conference speakerphone (USB)
 - [C300 \(PN 00004584\)](#)



10 W PSU



A230



EHS 2.0



D7 (EoS)



D7



D7C



C300



A100D



A100M



A310D



A310M



A330D



A330M



A170



A150

¹ Available separately

² If supported by PBX

³ Class 2 w/o USB and WLAN

⁴ Optional via software

⁵ EoS (End of sale)

Series overview



D713



D715



D717



D735



D785/
D785N



D787



D7



D7C

Disclaimer

Further information : [Snom D787 webpage](#) | [Snom Service Hub](#) | [Type approval](#) | [Warranty information](#)

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