

# D815W



Wi-Fi



2 USB ports



Expansion  
module  
connectable



Anti-bacterial  
housing



HD audio



SmartLabel



Security (TLS  
& SRTP)



OpenVPN

## Stylish and powerful: the Snom D815W

The Snom D815W is an excellent option for everyday use in any office environment. With its elegant design, two USB ports, integrated WLAN and a total of ten SmartLabel keys, it offers a wide range of possibilities. The outstanding feature of the D815W is its large 5-inch display, which enables good presentation and clarity.

The audio quality meets the high standards that apply to all Snom IP devices. The Snom D815W thus combines an elegant design and first-class performance at an unbeatable price.

## Basics

- Product information
  - IP desk phone D815W | gunmetal black | PN 00004691
  - Anti-bacterial housing
  - Operating system: Linux
- Placement
  - Indoor, desktop, wall mounting<sup>1</sup>

## Dimensions and weight

- Dimensions (L × W × H, approx.)
  - 210 mm × 243 mm × 45 mm without footstand
  - 193 mm × 243 mm × 165 mm with footstand
- Weight (approx.)
  - 1.12 kg with footstand

## Display and indicators

- Display
  - TFT liquid crystal display (LCD): IPS panel, true colour, backlit
  - Size (diagonal): 5.0" (127 mm)
  - Size (W × H): 110 mm × 62 mm
  - Resolution: 480 × 272 pixel
- 15 LED indicators
  - Call status indication: 1 red LED
  - Message waiting indication (MWI): 1 red LED
  - Function key status indication: 10 multicolour LEDs
  - Audio key status indication: 3 LEDs (1 red / 2 green)

## Keypad and function keys

- 43 hard keys in total
  - 12 keys (standard ITU telephone keypad)
  - 5-way navigation key
  - 4 context-sensitive function keys
  - Programmable function keys:
    - 10 SmartLabel keys (with multicolour LED)
    - Key mapping of up to 40 functions (10 keys × 4 pages)

- 5 dedicated audio keys
  - Mute (with red LED)
  - Speakerphone (with green LED)
  - Headset (with green LED)
  - Volume + / - (rocker)
- 7 dedicated function keys
  - Cancel
  - Message (with red LED)
  - Directory
  - Transfer
  - Hold
  - Conference
  - Redial
- Keyboard lock
- Expansion module connection via USB port for up to 3 × D8C<sup>1</sup>

## Audio devices, codecs and features

- Casing microphone | Casing speaker
  - Frequency range: 100 Hz - 8.0 kHz
  - Speakerphone mode: Full duplex, HD audio, Acoustic Echo Cancellation (AEC)
- Corded handset
  - Microphone | Handset earpiece
  - Frequency range: 150 Hz - 8.0 kHz
  - Noise cancellation, HD audio, Hearing aid compatible (HAC)
- Audio codecs
  - G.711 (A-law,  $\mu$ -law), G.722, G.723.1, G.726, G.729AB, GSM6.10(FR), Opus
- Dual-tone multi-frequency signalling (DTMF / RFC2833):
  - SIP-INFO, in-band, out-of-band
- Related features
  - Comfort Noise Generator (CNG)
  - Voice Activity Detection (VAD)
  - Audio response time
  - Adaptive jitter buffer
  - Packet loss concealment (PLC)

## Interfaces and connections

- Power options
  - Power over Ethernet (PoE)
    - IEEE 802.3af, class 3 | IEEE 802.3az<sup>3</sup>
  - Power adapter<sup>1</sup>
    - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W<sup>1</sup>
- Wired interfaces
  - Power adapter: coaxial power connector (socket)
  - Network connectivity: 2 × RJ45-8P8C sockets (*NET, PC*) → Gigabit Ethernet (GbE)
  - USB connectivity: 2 × USB 2.0 type A ports
  - Corded handset: RJ9-4P4C socket
  - Headset: RJ9-4P4C socket
  - **EHS adapter:**<sup>1</sup> RJ12-6P6C socket
- Wireless interfaces
  - Third party headset support
    - DECT: optional via A230<sup>1</sup>
  - Network connectivity: Wireless LAN
- Sensors
  - Hook switch sensor

## 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 43 / 60 / 66 / 67

- Secure Redirection And Provisioning Service (SRAPS) support
- Remote management via TR-069 / TR-069 Annex G (TR-111) / TR-369
- Plug & Play (PnP) support
- Localization
  - Languages
  - Time zone, dial tone
- Diagnostic
  - SIP / PCAP trace
  - Syslog
- Related features
  - Local call recording via USB
  - Dual firmware partition

## Networking technologies and protocols

- Network technologies
  - OpenVPN, VLAN (IEEE 802.1q)
  - Wireless LAN: IEEE 802.11n (Wi-Fi 4), IEEE 802.11ac (Wi-Fi 5)
- 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), TR-369 (USP)

## 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 2,000 entries
- Outgoing call features
  - Speed dialling via function keys
  - URL dialling
  - Local dial plan
  - Redial (via dialled calls list)
  - Automatic redial on busy
  - Caller identification (CLIP)
  - Calling Line Identification Restriction (CLIR)
  - Call completion (busy/unreachable)<sup>2</sup>
  - Intercom
  - Multicast paging
- Incoming call features
  - Call waiting/swapping
  - Auto answer
  - **Call barring / blocking:** deny list, anonymous calls, Do Not Disturb (DND) mode
  - Call diversion
  - Call deflection
- Connected call features
  - Mute microphone
  - Hold
  - Music on hold<sup>2</sup>

- Blind call transfer
- Attended call transfer
- 2+1 (4+1) local conferencing<sup>3</sup>
- Call park / unpark<sup>2</sup>
- Client Matter Code (CMC)<sup>2</sup>
- Related features
  - Call history lists of missed, received, dialed, rejected, and deflected calls
  - Extension monitoring (Busy lamp field), call pickup<sup>2</sup>

## Package contents

- Hardware
  - IP desk phone D815W
  - Corded handset
  - Footstand
  - Ethernet cable: 1.5 m
- Documentation
  - **Quick Installation Guide**
  - **GNU General Public License**

## Environmental conditions

- Operating ambient temperature:
  - 0 °C - +35 °C
- Nonoperating (storage) temperature:
  - -10 °C - +45 °C
- Humidity (non-condensing):
  - 5 % - 95 %

## Snom accessories and compatible devices

- PoE injector
  - A5E (PN 00004079)
- Power adapter
  - Snom 10 W PSU (PN 00004570)
- Wall mount kit
  - D8xx WM (PN 00004544)
- Corded wideband handset
  - D8xx WB handset (PN 00004561)
- USB dongle
  - DECT: A230 (PN 00004386)
- Expansion module
  - D8C (PN 00004562)
- EHS adapter
  - EHS Advanced 2.0 (PN 00002362)

- 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)
- Wireless conference speakerphone (USB)
  - C300 (PN 00004584)



A5E



10 W PSU



A230



EHS 2.0



D8C



C300



A170C



A100M



A310M



A310D



A330M



A330D



A350M

<sup>1</sup> Available separately

<sup>2</sup> If supported by PBX

<sup>3</sup> Optional via software

## Interoperability



## Series overview



D810W



D812



D815W



D815WB



D862



D865



D892M



D8C

## Disclaimer

[Further information: Snom D815W webpage](#) | [Snom Service Hub D815W](#) | [Quick Installation Guide D815W](#) | [Short User Manual D815W](#) | [GNU General Public License](#) | [Type approval](#) | [Warranty information](#) | [Company locations](#)

Snom, the names of Snom products, and Snom logos are trademarks owned by Snom Technology GmbH. All product specifications are subject to change without notification. Snom Technology GmbH reserves the right to revise and change this document at any time, without being obliged to announce such revisions or changes beforehand or after the fact. Although due care has been taken in the compilation and presentation of the information in this document, the data upon which it is based may have changed in the meantime. Snom therefore disclaims all warranties and liability for the accurateness, completeness, and currentness of the information published, except in the case of intention or gross negligence on the part of Snom or where liability arises due to binding legal provisions.