M256

DECT	Single-cell system	Anti-bacterial housing	Power over Ethernet (PoE)	Security (TLS & SRTP)	Directory	OTA Updates

DECT communication. Simple yet powerful in everyday working life.

The Snom M256 is a powerful single-cell DECT solution for demanding work environments where communication must be simple, reliable and robust. With support for up to 10 handsets, secure TLS/SRTP encryption and seamless integration into existing networks via Power over Ethernet, the M256 ensures stable and secure connectivity. Combined with the robust Snom M56, the system becomes the ideal communication solution for physically demanding work environments. The handset's IP67-certified housing is dustproof and water-resistant and works even in challenging environments.

Basics

- Product information
  - **Bundle M256 (DECT single-cell base station M250 + DECT handset M56)** | EU & UK | black | PN 00004791
  - Anti-bacterial housing
- Placement: Indoor, desktop

Dimensions and weight

- Dimensions (H × W × D, approx.)
  - **DECT base station M250:** 189 mm × 123 mm × 70 mm
  - **DECT handset M56:** 167 mm × 59 mm × 32 mm
- Weight (approx.)
  - **DECT base station M250:** 280 g
  - **DECT handset M56 +** belt clip + battery: 222 g

Display and indicators

- **DECT base station M250:** 3 LED indicators
  - Power status indication: 1 green LED
  - VoIP status indication: 1 multicolour LED (green / red / orange)
  - LINK status indication: 1 multicolour LED (green / red / orange)
- **DECT handset M56**
  - TFT liquid crystal display (LCD)
  - true colour, graphical
  - backlit
  - Size (diagonal): 2.4" (61 mm)
  - Resolution 240 × 320 pixel

Keypad and function keys

- **DECT base station M250:** 2 dedicated function keys
  - Link → DECT pairing
  - Reset
- **DECT handset M56:** 32 hard keys in total
  - 12 keys (standard ITU telephone keypad)
  - 3 context-sensitive function keys
  - 5-way navigation key
    - Ok | Menu
  - Programmable function keys
    - 6 programmable function keys (with dual-colour LED)
    - Right side: Function key
  - 3 dedicated function keys
    - Alarm key on the top of the handset
    - Dial | Speakerphone (with red LED)
    - Onhook | Cancel | Power on / off
  - 2 dedicated audio keys
    - Right side: Volume + / - (rocker)

Audio devices and features

- **DECT base station M250**
  - Audio codecs: G.711 (A-law, μ-law), G.722, G.726, G.729AB, iLBC, OPUS
- **DECT handset M56**
  - Microphone
  - Handset earpiece
  - External speaker
  - Hearing aid compatible (HAC)

Interfaces and connections

- **DECT base station M250**
  - Power options
    - Power over Ethernet (PoE): IEEE 802.3af, class 2
    - Power adapter:[2] 100 - 240 V AC / 50 - 60 Hz, 300 mA | 5 V DC / 2 A, 10 W
  - Wired interfaces
    - Network connectivity: 2 × RJ45-8P8C sockets (*NET, PC*) → Ethernet 10/100 Mbit/s:
    - Power adapter:[2] coaxial power connector (socket)
    - USB 2.0 type A port → Not in use
  - Wireless interfaces
    - DECT
- **DECT handset M56**
  - Power options: Battery: 3.7 V, 1,350 mAh, lithium-ion, rechargeable, up to 180 h standby time, up to 19 h narrowband talk time, up to 12 h wideband talk time
  - Wired interfaces
    - Headset: 3.5 mm miniature audio jack
  - Wireless interfaces
    - BT headset via integrated Bluetooth
- Charging cradle
  - Power options: Power adapter: 100 - 240 V AC / 50 - 60 Hz, 300 mA | 5 V DC / 2 A, 10.0 W
  - USB powering: USB-A to USB-C cable

Networking technologies and protocols

- Network technologies
  - VLAN (IEEE 802.1q)
  - OpenVPN
- VoIP related protocols and techniques
  - SIP, RTP, STUN
- Secure VoIP protocols
  - SRTP
- Network protocols
  - DHCP, LLDP-MED, HTTP, FTP, TFTP, SNTP, NAT
- Secure network protocols
  - TLS V1.2, HTTPS, IEEE 802.1X (p/q)
- Quality of Service (QoS)
  - ToS, DiffServ
- Remote management protocols
  - TR-069
  - TR-369 (USP)
- Related features
  - DNS Override
  - Mutual authentication
  - Failover support and server redundancy

DECT technology and features

- Standard: DECT
- Frequency band
  - Europe: 1,880 - 1,900 MHz
- Coverage
  - Up to 300 m outdoor range
  - Up to 50 m indoor range
- Handsets: up to 10[1]
- Software upgrade over the air (SUOTA)

Directory support and call features

- 20 identities / accounts
  - Up to 8 simultaneous calls
- Directory support
  - LDAP (server-based directory)
  - Import/export phone book (CSV, XML)
  - Central directory on the base station with up to 1,000 shared entries
  - XML phonebook support
- Outgoing call features
  - Speed dialling: up to 10
  - Local dial plan
  - Redial
  - Caller identification (CLIP)
  - Intercom between DECT handsets[1]
- Incoming call features
  - **Call barring / blocking:** deny list, anonymous calls, Do Not Disturb (DND) mode
  - Call diversion
- Connected call features
  - Mute microphone
  - Hold
  - Blind call transfer
  - Attended call transfer
  - External/internal call transfer between DECT handsets[1]
  - N-way network conferencing
  - 3-way (2+1) local conferencing
- Related features
  - Call history of 100 missed, received, dialed calls
  - Phone book matching for incoming and outgoing calls
  - Call timer (call duration)

User interfaces and setup

- Configuration and setup via menu-driven web user interface (WUI)
  - Password-protected login
  - Secure web server/client (HTTPS)
- Automatic configuration via provisioning
  - Loading of settings and firmware via HTTP, HTTPS, TFTP
  - Secure Redirection And Provisioning Service (SRAPS) support
  - Supported DHCP provisioning options 66, 159, 160
  - Secure provisioning with preinstalled certificate
  - Remote management via TR-069
  - Plug & Play (PnP) support
  - Provisioning file with AES encryption
- Customisation
  - Custom default file
- Localisation
  - Languages
    - **DECT base station M250:** German, English, British English, Spanish, Mexican Spanish, French, Canadian French, Italian, Dutch, Polish, Portuguese, Turkish, Greek, Russian
    - **DECT handset M56:** English, French, Canadian French, Spanish, Mexican Spanish, German, Italian, Dutch, Greek, Polish, Swedish, Estonian, Danish, Russian, Portuguese, Czech
  - Time zone, dial tone
- Diagnostic
  - PCAP trace, Syslog

Interoperability[3]

- Certified VoIP partner

Environmental conditions

- Operating ambient temperature: 0 °C - +35 °C
- Humidity (non-condensing): < 95 %

Package contents

- Hardware
  - **DECT base station M250**
    - Ethernet cable
  - **DECT handset M56**
    - Charging cradle
    - Power adapter
    - Battery
- Documentation
  - **Safety instructions M250**
  - **Safety instructions M56**

Snom accessories and compatible devices

- PoE injector: A5E (PN 00004679)[3]
- Power adapter: 10W PSU (PN 00004570)[3]
- **DECT single-cell base station:** M250 (PN 00004742)[2]
- **DECT handset:** M53 (PN 00004740)[3], M55 (PN 00004629)[3], M56 (PN 00004656)[2]
- DECT desk phone: M58 (PN 00004631)[3]

[1] Function only available when paired to the M53 / M55 / M56 / M58
[2] Included in bundle
[3] Available separately

[4] Features and functionality may vary, depending on SIP service provider and/or SIP phone system platform

Series overview

| M253 | M256 | M250 | M500 | M53 | M55 | M56 | M58 |

Disclaimer

Further information: M256 webpage │ Snom Service Hub M256 │ Short User Manual M256 │ Safety instructions M250 │ Data sheet M250 │ Safety instructions M56 │ Data sheet M56 │ Type approval │ Warranty information │ Company locations