

# M700

VoIP cordless DECT multicell base station



Directory



Power over Ethernet



Security (TLS & SRTP)



Multicell System



OTA Updates

# M700

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## Key Features

- Scalable up to 254 base stations
- Up to 1000 handsets per installation
- Wideband audio
- Over-the-air synchronization
- Repeater support
- Snom provisioning
- No hidden costs for licenses
- No DECT manager required

## Easy Setup

The M700 base station is ideal for companies requiring wireless coverage across several floors or throughout large buildings. Set-up is easy and intuitive thanks to the integrated installation mode on the M85, M65 or M25 handsets and campuses<sup>(1)</sup>.

## Seamless Handover

snom's multicell DECT solution links multiple M700 base stations together, forming a seamless network to allow free movement between base stations. Initiated calls continue uninterrupted while moving from one station to the next. The multicell solution also supports the M5 repeaters<sup>(2)</sup> with DECT encryption to further increase reception range.

## Scalability

The multicell solution can be easily scaled and expanded up to a maximum of 254 M700 base stations and 1000

handsets in the same network. Base stations synchronize and install themselves; expensive additional controller hardware is not necessary.

With the M700 multicell system in your office, the connected M65<sup>(1)</sup> handsets enjoy many phone system features such as direct search in the corporate directory and wideband audio.

## Security

Wireless security is ensured by DECT encryption, while TLS and SRTP ensure secure SIP communication. And, as an added value, you do not have to pay any license fees for the included audio codecs, channels, and other features.

Based on snom provisioning, the system is interoperable with all major VoIP systems such as Broadsoft and Asterisk based PBX's.

### DECT

- Frequency bands:
  - 1880-1900 MHz (EU)
  - 1910-1930 MHz (Latin America)
  - 1920-1930 MHz (US)
- Output power: EU < 250 mW, USA < 140 mW
- Protocols: DECT, DECT 6.0
- Four power levels: 14, 17, 20, 24 dBm
- Seamless handover using connection handover
- Wideband audio
- Authentication/encryption of base and handset

### Range

- Indoors: Up to 50 meters
- Outdoors: Up to 300 meters (for indoor use only)

### Multicell System

- Up to 1000 registered handsets in the same network in multicell setup
- Up to 8 narrowband or 4 wideband calls per base station in multicell setup
- Up to 10 narrowband or 5 wideband calls per base station in single-cell set-up
- Common phonebook with up to 3000 entries
- List of registered handsets

### Audio, Codecs

- G.722 (5 channels; 4 in multicell operation)
- G.711 A-law,  $\mu$ -law,
- G.726 (10 channels; 8 in multicell operation)
- Codec negotiation, codec switching

### User Interfaces

- LED status indication, multicolor
- Reset key
- Web interface

### Installation

- Positioning:
  - Floor or desktop (footstand included)
  - Wall mounting
  - Ceiling mounting<sup>(4)</sup>
- Remote software updates via HTTP/ HTTPS/TFTP
- Automatic loading of settings via HTTP/ HTTPS/ TFTP
- Completely configurable through Web interface
- Static IP, DHCP support
- NTP (Network Time Protocol)
- Secure provisioning and authentication with Mutual TLS through individual certificate issued by Snom CA
- Compatible handset feature RSSI tool, no additional measurement equipment needed

### Hardware Specifications

- Weight: approx. 320g
- Dimensions: approx. 211x150x58 mmm (LxWxD)
- Antenna diversity (two internal omni-directional antennas for better transmission and reception)
- Power: Power over Ethernet (PoE) IEEE802.3af Class 2. If PoE is not available, the A5 PoE injector can be used (not included)<sup>(3)</sup>.
- Ethernet connector: RJ 45
- LAN interface: 10/100 BASE-T IEEE 802.3
- Colour: Black
- Part Number: 00003928 (EU), 00003929 (US)

### Standards Conformance

- EN 301406 (TBR6)
- EN 60950 - 1 (Safety)
  - IEC60950 -1
  - CSA c-CSA-us / UL60950 - 1
- EN 301489 (EMC, ESD)
- RF (EMF, SAR)
- FCC part 15D, conducted & radiated
- FCC part 15B
- RSS213

**Supported SIP Protocols**

- RFC 3261 SIP 2.0 compliant
- SIPS Secure SIP
- SRTP Limits the number of active calls per base to 4 when packet authentication is enabled
- RFC 2327 SDP: Session Description Protocol
- RFC 2396 Uniform Resource Identifiers (URI): Generic Syntax
- RFC 2617 Digest/Basic Authentication
- RFC 2833 Out-of-band DTMF support (no in-band support)
- RFC 2976 SIP INFO method
- RFC 3262 Reliability of Provisional Responses in SIP (PRACK)
- RFC 3263 Locating SIP Servers (DNS SRV, redundant server support)
- RFC 3264 Offer/Answer Model with SDP
- RFC 3265 Specific Event Notification
- RFC 3326 Reason Header Field for SIP
- RFC 3311 SIP UPDATE Method
- RFC 3325 P-Asserted Identity
- RFC 3489 STUN
- RFC 3515 REFER: Call Transfer
- RFC 3550 RTP (Real-Time Transport Protocol)
- RFC 3581 Rport
- RFC 3842 Message Waiting Indication
- RFC 3891 Replace header support
- RFC 3892 SIP Referred-By Mechanism
- RFC 3960 Early Media and Ringing Tone Generation in SIP
- RFC 4475 SIP Torture Test Messages
- RFC 4028 Session Timer

- <sup>(1)</sup> Compatible handsets:
  - Snom M85, Snom PN 00004189
  - Snom M65, Snom PN 00003969
  - Snom M25, Snom PN 00003987 (EU), 00003988 (US)
- <sup>(2)</sup> Compatible DECT Repeater:
  - Snom M5, Snom PN 00003839

**Accessories:**

- <sup>(3)</sup> If PoE is not available, the Snom A5 PoE Injector (Phihong, model POE16R -1AFG, 56V) can be used to power and connect the M700.  
Snom PN: 00004065
- <sup>(4)</sup> Ceiling mount, stainless steel,  
Snom PN 00003933