# M700

# VoIP cordless DECT multicell base station





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#### **Key Features**

- · Scalable up to 40 base stations
- $\cdot$  Up to 200 handsets per installation
- $\cdot$  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 M65 or M25 handsets<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 and to bridge gaps between base stations.

#### Scalability

The multicell solution can be easily scaled and expanded up to a maximum of 40 M700 base stations and 200

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  $M65^{(1)}$  handsets enjoy many phone system features such as direct search in the corporate directory and HD 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.

# DECT

- $\cdot$  Frequency bands:
  - · 1880-1900 MHz (EU)
  - · 1910-1930 MHz (Latin America)
  - · 1920-1930 MHz (US)
- $\cdot$  Output power: EU < 250 mW, USA < 140 mW
- Protocols: DECT, DECT 6.0, CAT-iq1.0 (wideband) NOTE: No backward compatibility to GAP!
- $\cdot$  Four power levels: 14, 17, 20, 24 dBm
- $\cdot$  Seamless handover using connection handover
- $\cdot$  Wideband voice
- $\cdot$  Authentication/encryption of base and handset

# Range

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

### **Multicell System**

- $\cdot$  Up to 200 parallel calls in 40-base system
- Up to 200 registered handsets in the same network in multicell setup
- Up to 30 handsets per base station in single-cell set-up
- 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
- $\cdot$  Common phonebook with up to 200 entries
- $\cdot$  List of registered handsets

# Audio, Codecs

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

#### **User Interfaces**

- $\cdot$  LED status indication, multicolor
- · Reset key
- $\cdot$  Web interface

### Installation

- $\cdot$  Positioning:
  - · Floor or desktop (footstand included)
  - · Wall mounting
  - $\cdot$  Ceiling mounting  $^{\rm (4)}$
- $\cdot$  Remote software updates via HTTP/ HTTPS/TFTP
- Automatic loading of settings via HTTP/ HTTPS/ TFTP
- $\cdot$  Completely configurable through Web interface
- $\cdot$  Static IP, DHCP support
- $\cdot$  NTP (Network Time Protocol)
- Secure provisioning and authentication with Mutual TLS through individual certificate issued by snom CA

# Hardware Specifications

- · Weight: approx. 320g
- · Dimensions: approx. 227x279x39 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, a PoE injector can
  be used (not included)<sup>(3)</sup>.
- · Ethernet connector: RJ 45
- · LAN interface: 10/100 BASE-T IEEE 802.3
- $\cdot$  Color: Black

# Standards Conformance

- · EN 301406 (TBR6)
- · EN 60950 1 (Safety)
  - · IEC60950 -1
  - · CSA c-CSA-us / UL60950 1
- · EN 301489 (EMC, ESD)
- $\cdot$  RF (EMF, SAR)
- $\cdot$  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)
- $\cdot$  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
- $\cdot$  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 M65, snom PN 00003969
  - $\cdot$  snom M25, snom PN 000003987 (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

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