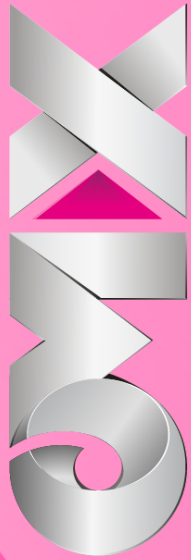


# DATASHEET

## OMD4160B



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### IP DECT MULTI CELL SOLUTION

#### Highlights

- IP DECT Base Station for Small and Medium Enterprise
- Upto 254 bases and 1000 handsets
- Cost effective and scalable solution - Pay as you grow - Save money compared to a traditional PBX solution
  - Mix between traditional DECT and CAT-iq wideband audio
- Over the air synchronisation
- Seamless handover
- Power over Ethernet provides a simple installatio

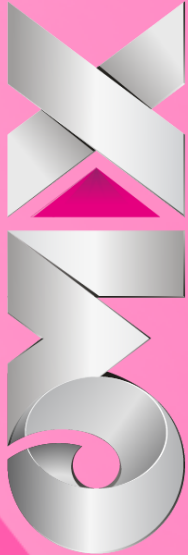
#### System Features

- DECT GAP / CAT-iq
- Wideband audio (HDSP) basic and extended
- 12 slot radio with up to 10 voice channels active
  - 10 audio channels using G.726 / G711 codec
  - 10 audio channels using G.729 (optional)
  - 5 CAT-iq wideband audio channels using G.722
- Worldwide radio power levels / frequency bands
- Scalable system from 1 to 254 bases in same network
- 1000 subscriptions (max 1000 handsets)
- Power over Ethernet
- Over the air synchronisation
- Support software download to wireless terminals
- LED status indication
- LDAP and/or XML phonebook support
- Seamless handover
- Repeater support
- Auto/Remote provisioning System Features

# Technical Specification

## IP Dect Base Station

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### Dect

- Frequency band: 1880 MHz – 1930 MHz (DECT)
  - 1880 – 1900 MHz (10 carriers) Europe
  - 1910 – 1930 MHz (10 carriers) Latam
  - 1920 – 1930 MHz (5 carriers) US and customized frequency bands
- Four power levels (14, 17, 20 and 24 dBm)
- Seamless handover using connection handover
- Wideband voice (HDSP) Basic
- Interoperability, Phase I (CAT-iq 1.0)
- Authentication / encryption of base and handset

### Approvals

- EN 301406 (TBR6)
- EN 30176 - 2 (TBR10)
- EN 60950 - 1 (Safety)
  - IEC60950 -1
  - CSA c-CSA-us or UL60950 - 1
- EN 301489 (EMC, ESD)
- RF (EMF, SAR)
- FCC part 15D, conducted & radiated
- FCC part 15B
- RSS213

### Antennas

- Internal omni-directional antennas
- Range: Indoor: 50 m
- Range: Outdoor: 300 m

### System

- 1000 SIP registrations (max 1000 handsets)
- 254 bases can be connected into one PBX system

### Network

- TFTP, HTTP, HTTPS for remote configuration and firmware download
- VLAN
- DHCP options 66 and custom
- Embedded web server for easy configuration
- IPv6

### Audio

- 10 audio channels using G.726 / G711 codec
- 10 audio channels using G.729 (optional DSP)
- 5 CAT-iq wideband audio channels using G.722
- RFC3711 SRTP

### Power Supply

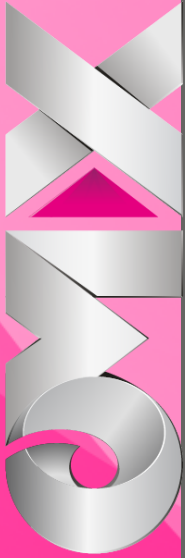
- Power over Ethernet (PoE):  
36-60 V - IEEE802.3af (Class 2)
- Max power consumption: 5W

### Ethernet

- Connector: RJ 45
- Interface to IP network:  
10/100 BASE-T IEEE802.3

### Mechanics

- Housing: IP20
- Dimensions: 227 x 279 x 39mm (HxWxD)
- Temperature Range: - 5° to + 55



## SIP (Session Initiation Protocol)

- SIP
- RFC2833 In-Band DTMF/Out of band DTMF support
- RFC2976 The SIP INFO method
- RFC3261 compliance
- Digest/basic authentication
- RFC3263, DNS SRV redundant server support
- RFC3264 Offer/answer
- RFC3326 The Reason Header Field for SIP
- RFC3489 STUN
- RFC3515 REFER
- RFC3581 RPORT
- RFC3842, RFC3265 Message Waiting Indication, subscription for MWI events
- RFC3892 SIP Referred-By Mechanism
- RFC3960 Early Media and Ringing Tone
- Generation in SIP
- RFC 4028
- RFC 331

## Additional Features

- Repeaters supported (upto 120 repeaters)
- Fast antenna diversity switching
- Synchronisation via air interface

## Others

- LED status indication
- Firmware update