



KAREL DB263 IP DECT BASE STATION

Karel DB263 is IP DECT Base Station is a scalable multi-cell IP DECT Base Station for Small, Medium and Large Enterprise. The system is scalable from 1 base, and 30 user and up to 4000 bases and 16000 users.

- **Wideband and narrowband audio support**
- **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 4000 bases in same network**
- **16000 subscriptions (max 16000 handsets)**
- **Power over Ethernet or DC supply**
- **IEEE1588 Lan and/or Air synchronization**
- **Support software download to wireless terminals**
- **LED status indication**

- **LDAP and/or XML phonebook support**
- **Seamless handover**
- **Repeater support**
- **Auto/Remote provisioning**

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
- DECT ULE
- CAT-iq 2.0 security

AUDIO

- 10 audio channels using G.726 / G711 codec
- 10 audio channels using G.729 (with optional DSP module)
- 8 audio channels using OPUS (with optional DSP module)

- 5 CAT-iq wideband audio channels using G.722
- RFC3711 SRTP

ANTENNAS

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

SYSTEM

- 16000 SIP registrations (max 16000 handsets)
- 4000 bases can be connected into one PBX system

ADDITIONAL FEATURES

- Repeaters supported (upto 100 repeaters)
- Fast antenna diversity switching
- Synchronisation via air interface

NETWORK

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

POWER SUPPLY

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

ETHERNET

- Connector: RJ 45
- 10/100 Base-T interface (IEEE802.3)

MECHANICS

- Housing: IP20
- Dimensions: 144x140x35mm (HxWxD)
- Temperature Range: -10° to +50°

OTHER

- LED status indication
- Firmware update

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

SIP (Session Initiation Protocol)

- SIPS
- 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 3311