Mitel IP-DECT 532/542 Base Station

Mitel IP-DECT Access Point – A simple and secure IP-telephony

Key Features

- Supports internal antennas (IPBS532) and external antennas (IPBS542)
- Enhanced DECT Security (ETSI TS 102 841, GAP.N.35)
- Roaming and handover
- 8 simultaneous voice calls
- Messaging, Alarm and Interactive Messaging
- Broadcast and Multicast Messaging
- H.323 or SIP protocol over IP
- Secure SIP over TLS and SRTP
- Over the air synchronization
- Power over Ethernet (PoE) or local power supply

Flexible and Reliable

The Mitel IP-DECT system is designed to enable voice service, messaging and alarm handling between Mitel cordless DECT handsets and Mitel communications systems via corporate LANs.

The IP-DECT system is the optimal solution for any demanding enterprise, providing secure, high-quality office communications in dynamic environments. Voice and messaging come together over a single converged network that requires minimal installation space, cabling or maintenance.

The Mitel IP-DECT base stations integrate best-in-class components to ensure that you are equipped with superior voice quality communications, seamless hand-over and all the practical features that ensure first-rate performance.

IP-DECT enables offices to optimize their IT investments. New services and capabilities can be easily implemented so that you can capitalize on the latest technological advances. The time and resources spent on moving, adding and changing of IP-DECT base stations are greatly reduced, thanks to an easy-to-use web GUI. What's more, a converged network solution means fewer components and greatly reduced system costs.

With its hierarchal architecture, the system can be expanded almost limitlessly while still offering roaming and hand-over for telephone users. The deployed architecture includes multipoint connections to the serving call manager, providing both capacity/performance and flexibility/redundancy. Remote sites can be configured to behave as autonomous entities, providing local survivability if there are problems with the network connection to the main site

Mitel
Powering connections

The Mitel IP-DECT Access Point is a sound choice for organizations looking to expand their communications capabilities with interactive messaging, broadcast messaging and alarm notification - all with secure DECT technology

Mitel IP-DECT Access Point

- DECT GAP/CAP radio interface
- Connects to IP-PBX via LAN
- Nine channels for calls, messaging and alarms
- One channel dedicated for alarms
- Over-the-air synchronization (OTA)

Internet Protocol (IP) versatility

When connected directly to your local area network (LAN), the IP-DECT access point provides IP telephony, protected by the security of DECT radiocommunications.

Expanded security

For greater security, the IP-DECT access point offers a secure radio transfer protocol (SRTP) for added confidentiality, message authentication and replay protection. SRTP is ideal for protecting voice over internet protocol (VoIP) traffic because it can be used in conjunction with header compression, without adversely affecting IP quality of service.

Compact and easily mounted

The compact design of the IP-DECT access point make it easy to install on a wall or pole or, if necessary, placed in a housing and mounted outdoors.

Excellent signal quality and strength

The IP-DECT access point is fitted with either an internal antenna or connectors for external antennas, depending on the version installed. Multiple antennas correct radio signal fading by switching to another antenna for transmission and reception, resulting in more stable radio performance and better speech quality.

Flexible and adaptive functionality

The IP-DECT access points feature nine channels with which to handle calls, messaging and alarms; however, one channel is dedicated to alarms to make sure that alarms are always transmitted.

Handsets are configured, and their software upgraded, centrally and over- the-air (OTA) via a web-based interface

Technical Specifications

Physical

Dimensions (l×w×h):	170 × 170 × 238 mm
Weight:	400g (14.11 oz)
Material:	PC/ABS moulded plastic
Color:	White (NCS S 0502-B)
External connectors	2 × MCX connectors for external antennas 2 × RJ45 for local power and Ethernet/PoE

Network

Ethernet:	10/100baseT

Power

Power over Ethernet IEEE 802.3af or local power

Operating voltage:	21 to 56 VDC
Power consumption:	Typical 4 W, maximum 5 W

Radio

RF output power (e.r.p.), EU:	Between 23 dBm and 28 dBm (with internal antenna)
RF output power (e.r.p.), US:	Between 17 dBm and 21,6dBm (with internal antenna)

DECT frequencies

- IPBS5X2 1880-1900 MHz (Europe, Africa, Middle East, Australia, New Zealand and parts of Asia)
- IPBS5X2 1900–1906 MHZ (Thailand)
- IPBS5X2 1910–1930 MHz (South America)
- IPBS5X2 1920–1930 MHz (North America)

Voice over IP

- H.323 version 4 incl. H.225, H.235, H.245
- H.450 with H.450.1, H.450.2, H.450.3, H.450.4, H.450.6, H.450.7, H.450.8 and H.450.9
- RFC 2246, RFC 2396, RFC 2617, RFC 2782, RFC 2833, RFC 3261, RFC 3262, RFC 3263, RFC 3264, RFC 3265, RFC 3280, RFC 3311, RFC 3323, RFC 3325, RFC 3326, RFC 3420, RFC 3515, RFC 3550, RFC 3551, RFC 3555, RFC 3578, RFC 3581, RFC 3680, RFC 3711, RFC 3842, RFC 3891, RFC 3892, RFC 4028, RFC 4235, RFC 4244, RFC 4347, RFC 4538, RFC 4566, RFC 4568, RFC 4730, RFC 4867, RFC 4916, RFC 5245, RFC 5359, RFC 5373, RFC 5389, RFC 5589, RFC 5761, RFC 5763, RFC 5764, RFC 5766, RFC 5806, RFC 5923, RFC 6086, RFC 6188, RFC 7983
- draft-ietf-sip-privacy

Compliance to European regulations and standards

EU directives:	52014/53/EU (RED) 2015/863 (RoHS3) 2011/65/EU (RoHS)
Radio	EN 301 406
Safety:	EN 62368-1
EMC:	EN 301 489-6, EN 301 489-1, EN 60945
Product Marketing:	CE

EU Declaration of Conformity can be found at:
https://www.ascom-ws.com/doc

Compliance to US and Canadian regulations and standards

Safety:	CAN/CSA-C22.2 No 62368-1 UL 62368-1
EMC/Radio:	FCC part 15 (Class B and D) RSS-213 ICES-003
Product Marketing:	FCC ID: BXZIPBS5X2 IC: 3724B-IPBS5X2

Compliance to Australian regulations and standards

Radio	Radiocommunications (Digital Cordless Communications Devices – DECT Devices) Standard 2017
Safety:	AS/NZS 62368-1
Product marking:	

Voice Encoding

- G.711 A-law / µ-law (64 kbps)
- G.722.2 AMR-WB
- G.729 A and AB (16kbps)

Environmental

Operating temperature:	-10°C to +55°C
Storage temperature:	-25°C to +70°C
Relative operating humidity:	15 to 90%, noncondensing
Relative storage humidity:	5 to 95%, noncondensing
Immunity to electromagnetic Fields:	10 V/m (EN 61000-4-3)
Immunity to ESD:	6 kV contact discharge and 8 kV air discharge (EN 61000-4-2)

Specifications are subject to change without notice.

Compatible Mitel Platforms:

MiVoice Business, MiVoice MX-ONE, MiVoice 250

Product Numbers:

#	Part Number	Description	Special Notes
1	50008333	IP DECT Base Station IPBS532	IP-DECT Base Station with internal antenna
2	50008334	IP DECT Base Station IPBS542	IP-DECT Base Station with external antenna

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