



MITEL

5610 DECT Handset and IP DECT Stand

Mitel®'s newest peripheral for the desktop portfolio is the Mitel 5610 DECT Handset and Mitel IP DECT Stand for the Mitel 5300 Series IP Phones. This unique accessory offers unprecedented convenience and mobility for IP Phone users. The 5610 DECT Handset, with full dial pad and vibrant, illuminated color screen, gives users the freedom and mobility to move away from their desk within their office or adjacent offices. The IP DECT Stand simply snaps onto a Mitel IP Phone, and supports up to eight 5610 DECT Handsets. Working behind the Mitel Communications Director (MCD), and the Mitel 5000 Communications Platform (CP), SIP call processing functionality is provided on these sleek cordless handsets, providing an easily implemented mobility solution for small and medium business (SMB) and enterprise markets.



Broad Market Appeal

The cordless 5610 DECT Handset and IP DECT Stand have a broad appeal across a number of vertical markets. Customers who require a low cost cordless handset solution will appreciate the simplicity and the range provided by the IP DECT technology for personal area mobility. Hotel guests will appreciate the convenience of additional cordless phone extensions in their rooms, while IT staff will appreciate the cost savings of servicing an entire room or suite of rooms with a single LAN drop. The 5610 DECT Handset / IP DECT Stand solution is ideal for users in retail markets, such as stores or car dealerships, health care locations, such as clinics, dental or medical offices, and small businesses who only require a small number of cordless handsets to augment their VoIP solution.

Mobility Solution

By leveraging the Dynamic Extension capability of the MCD, customers are able to "twin" a 5610 DECT Handset with a 5300 Series IP Phone, providing an integrated user experience at the desktop. The cordless 5610 DECT Handset is perfect for users who want the convenience of a cordless handset but need to be able to access more telephony features, such as caller ID, call transfer, conferencing, etc. while away from their desk. And because the 5610 DECT Handset is supported behind the Mitel Border Gateway (MBG), it can be used as a Teleworker device, making it even more convenient.

Features

5610 DECT Handset

The 5610 DECT Handset is a full featured SIP cordless handset that is supported on the IP DECT Stand.

Features include:

- Color, illuminated display (128 x 128), with auto dimming
- Full dial pad with navigation keys, soft keys, answer and end keys
- Two-line capability (e.g. answer call on one line, place that call on hold and initiate a call on a second line)
- Supports Personal Ring Group capability on the MCD (Dynamic Extension)
- Menu (OK) Key provides graphical menu options for Contacts, Settings, Messages and Call Logs
- Settings allow users to adjust audio preferences, ringer melodies, telephony functions, call forwarding options, and to access system and network settings
- Message Key provides access to voice mail box and displays softkey prompts for voice mail functions
- Call Logs displays up to 30 call entries (all, missed, incoming, outgoing) with a date and time stamp
- Contacts List: Stores and manages personal contacts and allows speed dials for contacts to be created or groups of contacts to be created
- Speakerphone capable, with adjustable volumes
- Nine polyphonic ring tones
- Distinctive ringing based on Calling Line ID
- Display features time and date, user name, connection status, battery status, call log and options softkeys
- Multiple language support: English, French, Spanish, German, Italian, Dutch, Portuguese, Swedish, Finnish, Danish, Slovenian
- Supports Conferencing, Call Transfer, Call Waiting, Call Forwarding, Hold and many more SIP telephony features from the MCD and 5000 CP
- Supports operating time of eight hours talk / 240 hours standby
- Ringer and speaker volume controls including mute
- Low battery and out of range audible warnings
- Standard headset support (2.5 mm jack)
- Message waiting indicator (missed calls, voice mail)
- Hearing Aid Compatible (HAC) handset
- Desktop charger included

IP DECT Stand

The IP DECT Stand acts as a DECT base station for the cordless 5610 DECT Handset. It provides IP DECT to SIP gateway functionality.

- Supports up to eight handsets / three simultaneous calls
- Supported across a range of IP Phones: Mitel 5312 / 5324 / 5320 / 5330 / 5340 / 5360 IP Phones
- Configurable via web configuration interface
- Provides web-based configuration utility which allows installation and configuration of the IP DECT Stand and 5610 DECT Handsets

- 5610 DECT Handsets are firmware upgradable “over the air” via the IP DECT Stand using the Web Configuration Utility
- DECT-based design: DECT 6.0 cordless technology provides higher quality voice transmission, density, and less interference compared to Bluetooth

Call Features

General Telephony

Handset Support	8 simultaneous handsets supported; maximum 6 alerting handsets at a time (3 simultaneous calls)
On-hook Dialing	Pre-dial numbers before pressing Off-hook button
Caller ID	Yes (Calling Name and Calling Number)
Call Waiting	Yes (Calling Name and Calling Number)
Call Conference – 1 handset + 2 External VoIP calls via IP DECT Stand	A 5610 DECT Handset with an external VoIP call can establish a 3-party conference with another VoIP call
Conferencing	Two 5610 DECT Handsets and one external VoIP call OR one 5610 DECT Handset and two external VoIP calls
Call Hold	A 5610 DECT Handset with an external call on VoIP can put the conversation on hold. The handset can make internal and external calls while the VoIP party is on hold. Hold state is left by retrieving the call, entering a 3-party conference, or by terminating the call.
Distinctive ringing	Based on CLID in IP
Call log	30 numbers including incoming, outgoing, missed calls
Speed dial	Yes
Call hang up	Pressing the CLR (Red) Key or upon return to charging cradle
Speakerphone	Yes
Auto answer from cradle	Support to automatically pickup incoming call when handset lifted off cradle
Speed Dial	One-touch speed dials can be programmed for Contacts



IP DECT Stand Specifications

Power Supply

Gateway Mains Adapter	Input: 100-240 VAC 50-60Hz Output Nom: 12VDC 300mA One end with DC pin and one end for C7 unpolarized cord insertion
Power Consumption	1.5 W (typical)

Connector Interfaces

Power	Connector: Two pins polarized DC jack
LAN Interface	Standard : 10BASE-T (IEEE 802.3 10Mbps) Connector: RJ45 8/8

Keys

One key for registration and reset.
Short press: registration
Long press: restore to factory defaults.

LED Indicators

4 Orange LEDs with functions:	1. Power 2. Network 3. Registered 4. Active call
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RF

Frequency Bands	1880 – 1900 MHz (EMEA) 1920 – 1930 MHz (USA/CA)
Output Power	<250 mW (for USA/CA < 140mW)
Antenna	Two PCB antennas for diversity

Software Updates

Downloadable	Yes, by means of wired interface from PC and over the LAN interface (Remote firmware update HTTP / TFTP)
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Interoperability

DECT	DECT interface (3081) DECT 6.0 (3080)
	WiFi friendly

Range

Indoor	50 meters (150 feet)
Outdoor	300 meters (900 feet)

Supported Phones

MiNET and SIP Mode	5312 IP Phone 5324 IP Phone 5320 IP Phone 5330 IP Phone 5340 IP Phone 5360 IP Phone (MiNET only)
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System Requirements

MCD	Release 4.1
5000 (CP)	Release 4.0
MBG	Release 5.2 (SP1)
Mitel Unified Communicator® (UC) Advanced	Release 3.1

5610 DECT Handset Specifications**Handset Battery**

Battery Type	Lithium-ion 650mAh
Battery lifetime	Talk time >12 hours, Standby >200 hours

Interface

Wired Headset interface	2.5 mm standard mono-jack
Wireless Headset interface	No
Bluetooth Headset Interface	No
SIM Card reader	No

Desktop Charger

Power (AC/DC)	Input: 100-240 VAC 50-60Hz Output Nom: 6VDC 350mA One end with DC pin and one end for C7 unpolarized cord insertion
Charging time	Empty battery recharged in < 6 hours

RF

Frequency Bands	1880 – 1900 MHz (EMEA) 1920 – 1930 MHz (USA/CAN)
Output Power	<250 mW (for USA/CAN < 140mW)
Antenna	One wired antenna

Display

Type	64K CSTN type Color LCD with backlight 64K colors
Number of lines	128 x 128 pixel display. 1 line status 6 lines for content (menus e.g.) 1 line for soft keys 1.5" display Each line 16 pixels high
Number of characters for text line	16
Character set	ISO 8859-1 or Unicode Standard 4.1



Keys	
Keypad	0 ... 9, * and #
Off-hook key	Yes
Loudspeaker on / off key	Yes
C-key (clear)	Yes, by soft key
Power on / off	Yes – combined with on hook
Recall key (enquiry)	Yes
Menu	Yes, by soft key
OK-key / Confirmation-key	Yes
Up / Down Navigation	Yes
Left / Right Navigation	Yes
Volume Up and Down	Yes
Menu Settings / Indicators	
Battery indication	Yes
Confirmation for menu selection	Yes
Coverage warning	Yes
Key click	Yes
Voice mail message waiting	Yes – Icon based
Polyphonic ring tones	Yes, 9 melody selections
Ringer melody types – distinctive ringing	Depending on the type of the incoming call it is possible to select a different ringer melody. The following call types (call class) are distinguished: - Internal Call - VoIP Call
LED indicator	No, all indications on the handset are at the LCD display by means of icons
Adjustable volume earpiece	Yes, 6 levels
Adjustable volume headset	Yes, 6 levels
Adjustable volume loudspeaker	Yes, 6 levels
Adjustable ringer volume	Yes, 7 levels including off
Automatic encryption (secure calls)	Yes – according to DECT standard
Call duration display	Yes Note: Only at the end of call
Call duration display	Yes Note: Only at the end of call
Call log list	Yes, last 30 numbers including all, missed, outgoing and incoming calls
Call reject option	Yes
Calling Line Identification (CLID)	Yes
Calling name support	Yes – when matching with local phonebook or when received from the IP DECT Stand
Date / time display	Yes

Date / time stamp logged calls / messages	Yes
Display update / refresh	When the DECT system provides (updated) display information, then the handset will use this info to update the handset's display
Handsfree mode	Yes, half duplex
Headset connection (incl. microphone)	Yes
Illuminated display	Yes
Illuminated keyboard	No
Key click on / off	Yes
Keypad lock	Yes
Last number redial	Yes
Loudspeaker for monitoring / handsfree	Yes
Microphone mute	Yes
Multiple language support	Yes English, French, Spanish, German, Italian, Dutch, Portuguese, Swedish, Finnish, Danish, Slovenian
Pre-dial number preparation	Yes, edit before dial
Shared phone book in base	Phonebook database with 170 entries are stored in IP DECT Stand Up to 8 handsets can access the stand and share the phonebook database
Recall / hold	Yes
Removable belt-clip	Yes
Ringer mute during call (silence)	Yes
Ringer on / off	Yes
Silent charging	Yes
Trembler / Vibrator	No
Technical Service Features	
Service Menu	By means of a special key sequence, a special service menu can be accessed (Menu used for production test)
Software	
Downloadable	Yes, by means of wired interface from PC
FWU OTA	Firmware upload over the air interface is only for SIP DECT systems and with the IP DECT Stand gateway



Physical

Dimensions (L x W x H)	Phone	12.6 cm x 4.4 cm x 1.8 cm (4.9 x 1.6 x 0.8 in)
	Stand	15 cm x 17.5 cm x 5 cm (6 x 6.9 x 1.9 in)

Weight

Phone	90 g (3.2 oz)
Stand	230 g (8.1 oz)

Environmental Conditions

Operational	Temperature	Humidity
	0°C to +45°C	95% at 29°C
Storage	-20°C to +65°C	95% at 29°C
Vibration (packed)	<ol style="list-style-type: none"> 1. Free vibration: 1Hr (Random) 2. Fixed vibration: 1Hr (3-axis each) 3. Freq.: 5Hz 4. Acceleration: 1.2g 	
Drop Test (Carton)	<ol style="list-style-type: none"> 1. With full carton packaging 2. Four corner, six faces and 12 edge on hard wooden ground, 3. Height: 76cm under 9.5kg, 61cm if weight between 9.5kg to 18.5kg, 46cm if weight between 18.5kg to 27.5kg, 30.5cm if over 27.5kg 	
Drop Test (Gift Box)	<ol style="list-style-type: none"> 1. Floor Type: Concrete 2. Height: 95 cm. 3. Direction and times: One time for each face. One time for each corner 	
Silk-screen and Paint Abrasion Test (Plastic)	RCA machine, 2 meters at 170g	

Regulatory Approvals

Safety	<p>CANADA: ICES-003 (CLASS B) IC RSS-GEN Issue 1: 2005 and IC RSS-213 Issue 2:2005</p> <p>USA: CFR Title 47, Part 15 (CLASS B) SAR for handset: IEEE C95.1-1991, FCC OET Bulletin 65 (Supplement C) Radio Test: DECT 6.0</p> <p>EU: EN50360: 2001 EN60950: 2006 and IEC60950 Radio Test: EN301 406</p>
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EMC	CANADA: CSA C22.2 No. 60950-1 USA: UL 60950-1, First Edition EU: EN301 489-1/-6 EN55022 EN55024
Telecom	CANADA: CS-03 Issue 9: 2005 (Hearing Aid Compatible) USA: FCC part 68 (CFR 47) (Hearing Aid Compatible) US Americans with Disabilities Act (ADA) (HAC and Volume Control)

System Interface Specifications

CODECs

G.711 (64 kbps, A-law & u-law)
G.729AB (License applies)
iLBC (Internet Low Bit Rate CODEC) (RFC 3951/RFC 3952)

SIP

RFC3261	SIP 2.0
RFC3263	Locating SIP Servers, Fail-over over SIP and DNS server, DNS SRV
RFC3264	Offer / Answer Model with SDP
RFC3515	- REFER method support - Draft transfer mode Draft-ietf-sipping-cc-transfer-07
RFC3265	Subscription for MWI events
RFC2976	DTMF INFO method
RFC2833	In-Band DTMF / Out of band DTMF support
RFC3842	Message Waiting Indication
RFC3265	Subscription for MWI events
RFC3550 and RFC3551	RTP and AVP
RFC3325	P-Asserted Identity
RFC3581	Rport
RFC3891	Replaces header support
RFC2543	Hold
Number of SIP registrations	Up to eight simultaneous active registrations with eight SIP servers / registrars
SIP configuration	- Via http-page or from handset - Digest / basic authentication - STUN Client (NAT Traversal) - Broadsoft Broadworks Rel 14.0 AccessDeviceInteropTestPlan-R140 compliance



Web server

- Embedded web server HTTP
- Easy configuration of the phone, remote configuration via Management Interface
- Reasonable customization of the Web Interface to customer branding
- Password protection

Other Features

Remote Firmware Updates	Yes (HTTP / TFTP)
Quality of Service	Type of Service (ToS) including DiffServ Tagging, and QoS per IEEE 802.1p/q
IP Quality	<ul style="list-style-type: none">- NetEQ by GIPS (License applies)- Wi-Fi friendly- Warning – Network outage, VoIP service outage- Packet Loss Concealment support- Sequence Error Handling- Adaptive Jitter Buffer support



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