ascom

Ascom d81 DECT Handset, Protector

Features

Alarm

- Push button alarm, with ability to send different alarm types
- Pull cord alarm^{1,2}
- Man-down/No-movement alarm²
- Acoustic Location Signal (ALS)
- Automatic call after alarm

Location

- Base station location
- DECT location¹
- LF location²
- Poll location

Messaging

- Priority handling of calls and messages
- Advanced messaging queueing
- Color messaging
- 180 degrees rotation of message/call information
- Interactive messaging
- Broadcast/Multicast messaging

General

- Tough industrial handset
- IP65 classified design
- Easy registration
- Headset connector
- Wide temperature range, -10°C to +55°C
- Loud volume
- Customizable sounds
- Color display
- Enhanced DECT security Step A and Step B (ETSI EN 300 444, N.35, N.36)
- GAP/CAP compliant DECT handset

License dependent feature
 Factory option

- Dynamic output power
- Shared phone¹
- Upgradeable by license
- 18 default languages + 1 customizable
- Application controlled telephony Automation calls
- Automatic group calls
- Push to talk (PTT)
- Personalized menu
- Advanced user profiles
- System profiles
- Procedure call
- Programmable handset restrictions
- Programmable headset button
- Bluetooth and handsfree as standard
- Bluetooth barcode reader support¹



Technical Specifications

Physical	
Dimensions ($I \times w \times d$):	142 × 56 × 25 mm
Weight:	170 g (battery and clip included)
Material:	Case: PC/ABS, Key pad: PC, Clip: PA
Color:	Handset: Gray/Dark Gray Front plates: Steel Gray (standard), Dark Gray, Tur- quoise, Green, and Orange.
Display (w × h):	28 × 35 mm, CSTN display
Clip:	Hinge-type (standard) or swivel-type
Battery	
Туре:	Li-lon
Speech time:	 18 h (Bluetooth disabled/Location features disabled) 12 h (with Bluetooth headset in use/Location features disabled) 16 h (Bluetooth disabled/LF location enabled) 10 h (with Bluetooth headset in use/LF location enabled)
Stand-by time:	120 h (Black screen saver activated/Location features disabled) 60 h (Black screen saver activated/LF location enabled)
Charge time:	2 h - 90% charged; 3 h - fully charged.
Discharge/charge cycles:	≥80% capacity left after 400 full charge/discharge cycles.
Storage temperature: ¹	0°C to +20°C. Cool and dry place. Charged to 40% (3.7 V). Even when stored under optimal conditions the battery capacity will decrease over time

1. Note that storing Li-Ion batteries at high temperature dramatically reduces its capacity. For example storage around +60°C reduces capacity with 20% in less than a month, permanently.

Multi-purpose connector:	For battery charging, software download, connection of headset, and configuration.
User interface	
Display (w × h):	Multiple colors with high resolution, more than 65000 individual colors. 128 × 160 pixel LCD with white LED backlighting.
Indicator:	LED on top for visual indication of incoming call/ message. The LED may also be used for visual indica- tion of normal function.
Vibrator:	Incoming call/message

Buttons/Keypad:	 Soft keys (3) On-hook and Power On/Off on the same key Four-way navigation key Numerical keys Volume up/down buttons Sound off key/Mute button
Audio Ring signal:	Maximum sound level 100 dB _A SPL @ 10 cm
	Adjustable in 8 steps
Earpiece:	Volume adjustable in 8 steps
Loudspeaker:	Duplex loud speaking function
Central Phone book	
Maximum name and number length:	40 characters in a name and 20 digits in a number
Company Phone book	
Maximum name and number length:	24 characters in a name and 24 digits in a number (1 number per name).
Entries:	1000
Local Phone book	
Contacts:	 48 character name 24 digit work number 24 digit mobile phone number 24 digit other number Selectable ring tones per contact
Entries:	250
Telephony	
Indication:	14 ring signals, flashing LED and vibrator
Answer call:	Button press or auto answer
Call list storage capacity:	25 calls (received, dialled and missed) with time stamp
Messaging	
Maximum message length:	Up to 140 characters from handset, depending on lan- guage and system settings.
Storage capacity:	30 received/sent messages (>20 000 characters)
Maximum number of Multicast Groups per handset:	The handset can be a member in maximum 8 different Messaging groups
Message character encoding	SMS Standard Latin-1 UTF-8

Radio

Receiver sensitivity: Automatic DECT protocol detection:

Frequency range:

- 1880–1895 MHz
- 1880–1900 MHz
- •
- 1900–1906 MHz
- 1910–1930 MHz
- 1920–1930 MHz

Modulation: Channel spacing: Antenna:

Maximum average power:

Bluetooth

Bluetooth radio spectrum: Output power:

Environmental

Operating temperature: Storage temperature: Charging temperature: Enclosure protection: Immunity to electromagnetic fields: Immunity to ESD:

Accelerated Life Testing Climate stress

Drop test Vibration test Chemical stress Keypad actuation test Squeeze test Free fall test, standard product

Chemical resistance test

Keypad abrasion test

-93 dBm

Automatic detection and configuration for US DECT and EU DECT at first registration.

Taiwan Europe, Africa, Middle East, Australia, New Zeeland, and parts of Asia. Thailand South America North America GFSK 1.728 MHz Integral EU/LA/BR: 10 mW US: 4 mW ISM 2.4000–2.4835 GHz Class 2, maximum 3 dBm -10°C to +55°C (+14°F to +131°F) -20°C to +60°C (-4°F to +140°F)

+5°C to +40°C (+41°F to +104°F)

IP65, IEC EN 60529 10 V/m EN 61000-4-3 8 kV contact discharge and 10 kV air discharge (EN 61000-4-2)

Handset exposed for quick temperature changes (-40°C to 75°C) 25 times. Handset dwelt on each temperature during 40 minutes.

Handset dropped 30 times from 1.2 m

Handset exposed for vibrations during 2.5 $\ensuremath{\mathsf{h}}$

Handset exposed for Oleic Acid

Keys pressed 15 000 times with a force of 13 $\ensuremath{\mathsf{N}}.$

Handset squeezed 1 000 times with a force of 130 $\ensuremath{\mathsf{N}}.$

IEC 60068-2-32, procedure 1, dropped 12 times, specification extended to 2 m.

IEC 68-2-32, procedure 2, dropped 1 000 times from 0.5 m.

3% Hydrochloric Acid M-alcohol (85% methylated ethanol) 60% Chlorhexidin 0.5mg/ml

20 NB 0500-B

Additional Features

- High quality voice
- Easy access to PBX services
- Easy replacement of handset
- Easy replaceable battery
- Mute button / Sound off key
- Local, central, and company phonebook
- Voice mail
- Sending/receiving messages (SMS)

Accessories

- Hinge-type/Swivel-type clip
- Cover plate for no clip
- Security cord
- Pull-cord
- Leather casing, incl. swivel-type clip
- Desktop charger, Basic
- Desktop charger, Advanced
- Battery pack charger

- Centralized management
- Message acknowledgement
- Loudspeaking function
- Vibrator
- Clear call lists in charger
- Call list with the last 25 calls
- Programmable Soft/Hot keys
- Site survey tool
- Charging rack
- Front plates (5)
- Headset with microphone on boom¹
- Headset adaptor for Mic on boom
- Peltor hearing protection headset
- ATEX/IECEx-classified headset adaptor for standard and **ATEX-classified Peltor headsets**

1. Requires the headset adaptor for Mic on boom which is ordered separately.

Verified Bluetooth Headsets and Bluetooth Barcode Readers

Bluetooth Headsets:

- Jabra EVOLVE 65 MS Stereo
- Jabra EVOLVE 75
- Jabra MOTION UC+ MS
- Jabra STEALTH
- Jabra SUPREME UC MS
- Peltor WS Headset XP (MT H7 WS5)
- Plantronics B825-M Voyager Focus
- Plantronics BackBeat GO 2
- Plantronics Blackwire 710
- Plantronics Explorer 500 Bluetooth Headset Black
- Plantronics M70
- Plantronics M90
- Plantronics Voyager 5200 BT Headset EU
- Plantronics Voyager Edge
- Plantronics Voyager Legend UC

Compliance to US Regulations and Standards

Product marking:

SAR (Specific Absorption Rate):

Safety: EMC/Radio: Hearing Aid: Bluetooth Barcode Readers:

- Baracoda ScanWear BSW-L
- Baracoda Roadrunners BRR-L
- Baracoda Pencil2
- Opticon OPL-2724

FCC ID: BXZDH5BL, 🚯 BT QD: B016451 US: 9FVW4NANDH5

HAC

FCC/OET Bulletin 65 Supplement C and IEEE Std. 1528 / ANSI/IEEE Std. C95.1

Normal operation 0.013 W/kg (1 gram)

Body worn operation 0.016 W/kg (1 gram)

UL 60950-1

FCC Part 15 D, and FCC Part 15 C

47 CFR Part 68, Subpart D and TIA-968-A

Specifications are subject to change without notice.

Compliance to Canadian regulations and standards

Product marking: EMC/Radio: SAR (Specific Absorption Rate):

Safety:

Hearing aid:

Compliance to European regulations and standards EU directives:

Product marking: Radio: Bluetooth: SAR (Specific Absorption Rate):

Safety: EMC:

Compliance to Australian regulations and standards

Product marking: Radio: Bluetooth: SAR (Specific Absorption Rate):

Safety: EMC: DECT:

IC: 3724B-DH5BL, 🚯 BT QD: B016451

RSS-213 and RSS-210 (Bluetooth), ICES-003 IEEE Std C95.3 Normal operation 0.013 W/kg (1 gram) Body worn operation 0.016 W/kg (1 gram) CSA 60950-1 CS-03

2014/53/EU (RED) and RoHS 2015/863 amending Directive 2011/65/EU.

C E N BT QD: B016451 EN 301 406, TBR22 EN 300 328, EN 301 489-17 EN 50360, 0.137 W/kg (10 gram) EN 50566 EN 60950-1 EN 301 489- 6, EN 301 489-1

BT ID: B016451
 EN 301 406
 EN 300 400 400

EN 300 328, EN 301 489-17, AUS/NZS-4771 EN 50360, 0.137 W/kg (10 gram) EN 50566:2013 AUS/NZS 60950-1 EN 301 489- 6, EN 301 489-1 AS/ACIF S004

Specifications are subject to change without notice.