

Ascom d81 DECT Handset, Messenger

Features

Messaging

- Priority handling of calls and messages
- Advanced messaging queueing
- Color messaging
- 180 degrees rotation of message/call information
- Interactive messaging
- Broadcast/Multicast messaging
- Message acknowledgement
- Sending/receiving messages (SMS)
- Voice mail

Location

- Base station location
- DECT location¹
- LF Location²
- Poll location

General

- Tough industrial handset
- IP65 classified design
- Easy registration
- Headset connector
- Wide temperature range, -10 to 55 °C
- Loud volume
- Aggressive ring signal
- Customizable sounds
- Color display
- GAP/CAP compliant DECT handset
- 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 soft keys / hot keys
- Programmable headset button
- Bluetooth and handsfree as standard
- Bluetooth barcode reader support¹



1. License dependent feature

2. Factory option

Technical Specifications

Physical

Dimensions (l × w × 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, Turquoise, Green, and Orange.

Display (w × h):

28 × 35 mm, CSTN display

Clip:

Hinge-type (standard) or swivel-type

Battery

Type:

Li-Ion

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 hours - 90% charged; 3 hours - 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% (3.7V). Even when stored under optimal conditions the battery capacity will decrease over time

Connectors

Multi-purpose connector:	For battery charging, software download, connection of headset, and configuration.
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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 indication of normal function.
Vibrator:	Incoming call/message
Buttons/Keypad:	<ul style="list-style-type: none"> - Soft keys (3) - Hook off key - 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:	Adjustable in 8 steps
Earpiece:	Adjustable in 8 steps
Maximum sound ring signal level:	100 dBspl @ 10 cm
Loudspeaker:	Duplex loudspeaking function

Settings

Languages:	18 (Czech, Danish, German, Greek, English, Spanish, French, Italian, Magyar, Dutch, Norwegian, Polish, Portuguese (Brazilian), Russian, Slovakian, Finnish, Swedish, Turkish) + 1 customizable
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Central Phonebook

Maximum name and number length:	40 characters in a name and 20 digits in a number
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Company Phonebook

Maximum name and number length:	24 characters in a name and 24 digits in a number (1 number per name).
Entries:	1000

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.

Specifications are subject to change without notice.

Local Phonebook

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:	160 characters from handset. Message length to handset is system dependent.
Storage capacity:	30 received/sent messages (> 20 000 characters)

Radio

Receiver sensitivity:	-93 dBm
Automatic DECT protocol detection:	Automatic detection and configuration for US DECT and EU DECT at first registration.

Frequency range:

• EU:	1880-1900 MHz
• US:	1920-1930 MHz
• LA:	1910-1930 MHz
• BR:	1910-1920 MHz
• ---:	1900-1920 MHz

Modulation:

GFSK

Channel spacing:

1.728 MHz

Antenna:

Integral

Dynamic output power:

EU/LA/BR: 10 mW (maximum average power)
US: 4 mW (maximum average power)

Bluetooth

Bluetooth radio spectrum:	ISM 2.4000-2.4835 MHz
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Environmental

Operating temperature:	-10°C to +55°C
Storage temperature:	-20°C to +60°C
Enclosure protection:	IP65, IEC EN60529
Immunity to electromagnetic fields:	10V/m EN61000-4-3
Immunity to ESD:	8 kV contact discharge and 16 kV air discharge (EN61000-4-2)
Accelerated Life Testing	
Climate stress	Handset exposed for quick temperature changes (-40° C to 75° C) 25 times. Handset dwelt on each temperature during 40 minutes.
Drop test	Handset dropped 30 times from 1,2 metres
Vibration test	Handset exposed for vibrations during 2,5 hours

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Chemical stress	Handset exposed for Oleic Acid
Keypad actuation test	Keys pressed 15 000 times with a force of 13N
Squeeze test	Handset squeezed 1 000 times with a force of 130N.
Free fall test, standard product	IEC 60068-2-32, procedure 1, dropped 12 times, specification extended to 2 metres. IEC 68-2-32, procedure 2, dropped 1 000 times from 0,5 metre.
Chemical Resistance Test	3% Hydrochloric Acid M-alcohol (85% methylated ethanol) 60% Chlorhexidin 0.5mg/ml
Keypad Abrasion Test	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
- Site survey tool
- Loudspeaking function
- Vibrator
- Clear call lists in charger
- Call list with the last 25 calls
- Site survey tool
- Centralized management



Accessories

- Hinge-type/Swivel-type clip
- Cover plate for no clip
- Security cord
- Leather casing, incl. swivel-type clip
- Desktop charger, Basic
- Desktop charger, Advanced
- Battery pack charger
- Charging rack
- Front plates (5 colors)
- 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

Verified Bluetooth Headsets and Bluetooth Barcode Readers

- Bluetooth Headsets
Nokia BH-804/BH-904
Plantronics Explorer 240/390/395
Plantronics Voyager 835/PRO/PRO+
Plantronics Discovery 925
Plantronics M20/M50/M1100
Jabra BT530
Jabra GO 660/6430/6470
SonyEricsson HBH-GV435/HBH-PV740
Peltor M2RX7-WS4
- Bluetooth Barcode Readers
Baracoda ScanWear BSW-L
Baracoda Roadrunners BRR-L
Baracoda Pencil2
Opticon OPL-2724


Compliance to European Regulations and Standards

EU directives:	1999/5/EC (R&TTE)
Product marking:	  BT QD: B016451
Radio:	EN 301 406, TBR22
Bluetooth:	EN 300 328, EN 301489-17
SAR (Specific Absorption Rate):	EN50360 and EN62209-1, 0.137 W/kg (10 gram)
Safety:	EN60950-1
EMC:	EN301489- 6, EN 301 489-1


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

Specifications are subject to change without notice.



Compliance to US Regulations and Standards

Product marking:	FCC ID: BXZDH5BL,  BT QD: B016451 US: 9FVW4NANDH5 HAC
SAR (Specific Absorption Rate):	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)
Safety:	UL 60950-1
EMC/Radio:	FCC Part 15 D, and FCC Part 15 C
Hearing Aid:	47 CFR Part 68, Subpart D and TIA-968-A

Compliance to Canadian Regulations and standards

Product marking:	IC: 3724B-DH5BL,  BT QD: B016451
EMC/Radio:	RSS-213 and RSS-210 (Bluetooth), ICES-003
SAR (Specific Absorption Rate):	IEEE Std C95.3 Normal operation 0.013 W/kg (1 gram) Body worn operation 0.016 W/kg (1 gram)
Safety:	CSA 60950-1
Hearing aid:	CS-03

Compliance to Australian Regulations and Standards

Product marking:	  BT ID: B016451
Radio:	EN301406
Bluetooth:	EN 300 328-2, EN 301489-17, AUS/NZS-4771
SAR (Specific Absorption Rate):	EN 50360 and EN62209-1, 0.137 W/kg (10 gram)
Safety:	AUS/NZS 60950-1
EMC:	EN301489- 6, EN 301 489-1
DECT:	AS/ACIF S004

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