



Ascom d83 Protector DECT Handset

Features

- Wide band audio
- Shared phone
- Bluetooth for headset
- Easy registration
- Loudspeaking function
- Procedure calls
- Advanced user profiles
- System profiles
- Programmable soft keys & hot keys
- Multi-function button
- Push to talk (PTT)
- Poll location
- Voice mail
- Background noise cancelling
- Application controlled telephony with Automation calls and Automatic group calls

Alarm

- Push button alarm, with ability to send different alarm types
- Acoustic Location Signal (ALS)
- Automatic call after alarm
- Man-down and No-movement alarm
- Pull cord alarm

Messaging

- Priority handling of calls and messages
- Advanced messaging queueing
- Color messaging
- Interactive messaging
- Multicast / Broadcast messaging
- Message acknowledgement

Location

- IR Location
- DECT Beacon location
- Base station location
- BLE location
- LF location

General

- 3.5 mm headset connector
- Vibrator
- GAP / CAP compliant DECT handset
- Dynamic output power
- Cleanable, IP67
- 20 languages and 1 customizable
- Enhanced DECT security Step A and Step B (ETSI EN 300 444, N.35, N.36)

Technical Specifications

Overview

Dimensions (l × w × d):	150 × 64 × 23 mm
Weight:	164.2 g (excl. clip) 180 g (incl. battery and clip)
Material:	Case: PC/ABS, Key pad: PC, Clip: PA
Color:	Handset: Gray / Black Front plates: Black (standard), Steel Gray, Turquoise, Green, Orange
Display:	40 x 50 mm (2.4 in), TFT display Multiple colors with high resolution, 262 K individual colors 240 × 320 pixel LCD with white LED backlight
Clip:	Hinge-type (standard) or swivel-type or no clip

User Interface

Indicator:	Multicolor 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 / Incoming message / Alarm

Battery and Charging



All battery times are based on optimal conditions (no roaming or handover and black display).

Type:	Li-ion 3.7 V 920 mAh
Speech time:	18 h (Bluetooth disabled / Location features disabled) 12 h (with Bluetooth headset in use / Location features disabled) 16 h (Bluetooth disabled / Location features enabled) 10 h (with Bluetooth headset in use / Location features enabled)
Stand-by time:	120 h (Black screen saver activated / Location features disabled) 60 h (Black screen saver activated / Location features enabled)
Charge time:	< 4 h

Connectors

Multi-purpose connector:	With USB for fast software download, configuration and battery charging
Headset connector:	Standard 3.5 mm, screw enforced 3.5 mm

Specifications are subject to change without notice

Audio	
Ring signal:	Maximum sound level 100 dBA @ 10 cm Adjustable in 8 steps
Earpiece:	Adjustable in 8 steps of 3dB each
Loudspeaker:	Duplex loudspeaking function
Languages	
Menu and message languages (20):	Czech, Danish, Dutch, English, Finnish, Flemish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (European), Russian, Slovakian, Spanish, Swedish and Turkish + one downloadable
Phonebook	
Central phonebook:	Maximum 40 characters in a name and 20 digits in a number
Company phonebook:	Maximum 24 characters in a name and 24 digits in a number (1 number per name) 1000 entries
Local phonebook:	48 character name 24 digit work number 24 digit mobile phone number 24 digit other number Selectable ring tones per contact 250 entries
Telephony	
Indication:	14 ring signals, illuminated display, vibrator and LED
Answer call:	Button press or auto answer
Call list storage capacity:	50 calls (received, dialled and missed) with time stamp
Messaging	
Maximum message length:	Up to 140 characters from handset, depending on language and system settings
Storage capacity:	30 received/sent messages (> 20 000 characters)
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

Specifications are subject to change without notice

Additional

- | | |
|---|---|
| <ul style="list-style-type: none"> • High quality voice • Centralized management • Easy access to PBX services • Easy replacement of handset • Programmable headset button • Site survey tool | <ul style="list-style-type: none"> • Customizable menus • Programmable handset restrictions • Easily replaceable battery • Mute button / Sound off key • 180 degrees rotation of message / call information • Clear message and call lists in charger |
|---|---|

Accessories

- | | |
|---|---|
| <ul style="list-style-type: none"> • Hinge-type/Swivel-type clip • Cover plate for no clip • Security cord • Pull-cord • Leather casing, incl. swivel-type clip • Desktop charger • Desktop programmer | <ul style="list-style-type: none"> • Battery pack charger • Charging rack • Front plates (5) • Headset with microphone on cable • Headset with microphone on boom • Headset adapter for Mic on boom |
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Bluetooth

Bluetooth radio spectrum:	ISM 2.4000–2.4835 GHz
Output power:	Class 2, maximum 3 dBm
Supported Version:	5.0
Supported Profiles:	Headset and Handsfree

Radio

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 THA: 1900–1906 MHz – : 1900–1920 MHz
Modulation:	GFSK
Channel spacing:	1.728 MHz
Antenna:	2 integral antennas for antenna diversity
Sensitivity:	–93 dBm
Maximum average power:	EU/LA/BR: 10 mW US: 4 mW

Specifications are subject to change without notice

Environmental	
Operating temperature:	-10°C to +55°C (+14°F to +131°F)
Storage temperature ¹ :	-20°C to +60°C (-4°F to +140°F)
Charging temperature:	+5°C to +40°C (+41°F to +104°F)
Immunity to electromagnetic fields:	10 V/m (EN 61000-4-3)
Immunity to ESD:	8 kV contact discharge and 16 kV air discharge (EN 61000-4-2)
Enclosure protection:	IP67, IEC EN 60529
Free fall test:	IEC 60068-2-31, procedure 1, dropped 12 times, specification extended to 2 m IEC 60068-2-31, procedure 2, dropped 1 000 times from 0.5 m
Chemical resistance test:	3% Hydrochloric Acid M-alcohol (85% methylated ethanol) 60% Chlorhexidin 0.5 mg/ml
Accelerated Life Testing	
Climate stress:	Handset exposed to quick temperature and humidity changes Temperature: -40°C to +75°C Humidity: 0% to 90%
Drop test:	Handset dropped 30 times from 1.2 m (6 times each loop for 5 loops)
Vibration test:	Handset exposed to 30 Hz vibrations for a duration of 2.5 h
Chemical stress:	Handset exposed to Oleic Acid
Keypad actuation test:	Keys pressed 15 000 times with a force of 13 N
Squeeze test:	Handset squeezed 1 000 times with a force of 130 N

Specifications are subject to change without notice

Compliance to Regulations and Standards

Bluetooth Marking:



Compliance to European/UK Regulations and Standards

EU directives and regulations:

2014/53/EU (RED), 2012/19/EU (WEEE), 94/62/EC with amendment 2015/720 (Packaging and packaging waste), 2006/66/EC (Battery Directive), Regulation 1907/2006 (REACH) and RoHS 2015/863 amending Directive 2011/65/EU

UK directives and regulations:

Radio Equipment Regulations 2017
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Product Marking:



Radio:

EN 301 406, TBR22

Bluetooth:

EN 300 328, EN 301 489-17

SAR (Specific Absorption Rate):

EN 50360, 0.075 W/kg (10 gram) and EN 50566, 0.076 W/kg (10 gram)

Safety:

EN 62368-1

EMC:

EN 301 489- 6, EN 301 489-1

Compliance to US Regulations and Standards

Product Marking:

FCC ID: BXZDH8
HAC
 IP67

SAR (Specific Absorption Rate):

FCC 47 CFR § 2.1093 (d) and IEEE Std. 1528
Body Worn 0.074 W/kg (1 gram)

Safety:

UL 62368-1

EMC/Radio:

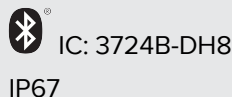
FCC Part 15 D, FCC Part 15 C (Bluetooth) and FCC Part 15 B

Hearing Aid:

47 CFR Part 68

Compliance to Canadian Regulations and Standards

Product Marking:



SAR (Specific Absorption Rate):

RSS-102, Issue 5
Body Worn 0.074 W/kg (1 gram)

Safety:

CAN/CSA-C22.2 NO. 62368-1

Specifications are subject to change without notice

EMC/Radio:	RSS-213 and RSS-247 (Bluetooth)
Hearing Aid:	CS-03 Part V, Issue 9, Amendment 1
Compliance to Australian Regulations and Standards	
Product Marking:	 
Safety:	AUS/NZS 60950-1
EMC/Radio:	Radiocommunications Act 1992 Telecommunications Act 1997 AS/CA S042

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.

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PRELIMINARY

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