Introducing the Ascom d83

The professional DECT handset for professional mobile workers

The new Ascom d83 DECT mobile device is quite possibly the toughest, most versatile enterprise-grade DECT handset ever made: delivering the voice quality, reliability, messaging and alarm functions demanded in today's workplaces.

Tested to the limits

The d83 is ingress protected to IP67 standard. But we think an enterprise-grade DECT handset has to be tougher than the toughest work environments. Which is why the d83 has been tested way beyond the standard free fall, temperature, chemical-resistance and endurance tests. And of course, it features advanced speech encryption and authentication.

Protection with productivity

The availability of three d83 versions (Talker, Messenger, Protector), means you can select the combination of features that are just right for your needs. All versions deliver wideband audio and noise cancelling for exceptional voice quality. As well as an 'express' channel for mission-critical data.

No compromise on comfort

The d83 is built to be comfortable to use throughout the longest shifts, featuring: a conveniently located alarm button, large color display, wired or wireless headsets, multiple language and phonebook options, a carrying clip and a long-life, replaceable battery.

Support and services, wherever you are

The d83 DECT is only part of what you get in an Ascom on-site communications solution. You can also take advantage of a customized after-sales support package that can include everything from remote system monitoring to prioritized device repair/replacement, training, and automatic software updates.

Ascom d83 versions

Features	Talker	Messenger	Protector
Telephony	✓	✓	✓
Shock, vibration, drop, temperature and chemical resistant	✓	✓	✓
Centralized device management	✓	✓	✓
Central phone book	✓	✓	✓
Bluetooth 5.0 for wireless headsets	✓	✓	✓
3.5 mm contact for wired headsets	✓	✓	✓
Shared phone	✓	✓	✓
Advanced messaging including priority, confirmation, call setup, colors on display and LED	–	✓	✓
Services and shortcuts to phone calls, messaging, sending data, etc.	–	✓	✓
Location with BLE, DECT, IR and LF technologies	–	✓	✓
Push-button, man-down, no-movement and pull-cord alarms	–	–	✓

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Ascom d83 technical specifications

BODY
Dimensions: 150 x 64 x 23 mm
Weight: 175 g (6.17 oz) (incl. clip and battery)
Color: Handset: gray/black, Front plate: black (standard), steel grey, turquoise, green, orange
Build: Case: PC/ABS, Keypad: PC, Clip: PA
Case: Hinge type (standard), swivel type or no clip

DISPLAY
Size: 40 x 50 mm (2.4 ")
Type: TFT
Colors: 262 k individual colors
Screen: 240 x 320 pixel LCD with white LED backlight

BATTERY AND CHARGING
Type: Li-ion 3.7 V, 920 mAh
Speech time: Upto 10 hrs (with Bluetooth headset and location features enabled)
Stand-by time: Upto 120 hrs (with black screen saver activated and location features disabled)
Charge time: <4 hrs
Discharge/charge cycles: >=80% capacity after 400 full charge/discharge cycles

CONNECTORS
Multipurpose: Multi-purpose connector for battery charging, fast software download and configuration.
Other: Screw reinforced standard 3.5 mm headset connector for Peltor/3M hearing protection headset cable The 3.5 mm connector can also be used for charging with a charging cable using a Europlug

RADIO
Color: DECT protocol detection: Automatic detection and configuration for US DECT and EU DECT at first registration
Frequency range:
1880–1900 MHz: Europe, Africa, Middle East, Australia, New Zealand and parts of Asia
1900–1906 MHz: Thailand
1910–1920 MHz: Brazil
1910–1930 MHz: Latin America
1920–1930 MHz: US
Modulation: GFSK
Channel spacing: 1.728 MHz
Antenna: Two integral antennas for diversity
Sensitivity: -93 dBm
Maximum: 10 mW: Europe, Latin America, Brazil, 4 mW: US
Bluetooth: Supports Bluetooth 5.0 and profiles headset and handsfree

AUDIO
Wideband audio: Support of voice codecs G.722.2 and G.726
Background noise reduction: Two microphones and Adaptive Noise Reduction
Ring signal: Adjustable in 8 steps
Max. sound ring signal level: 100 dBA at 10 cm distance
Earpiece: Adjustable in 8 steps of 3dB each
Loudspeaker: Duplex loudspeaker

USER INTERFACE
Indicators: Sound, vibrator, illuminated display and/or a multicolored LED indicates incoming call/message, 14 ring signals
Button and keys: Three programmable soft keys, fourway navigation key, off-hook key, on-hook and power on/off key, numerical keys, sound off key, volume up/down, alarm button, mute multifunction button and push-to-talk multifunction button

PHONEBOOKS
Central phonebook: Unlimited number of entries, maximum 40 characters in a name and 20 digits in a number
Company phonebook: 1,000 entries, maximum 24 characters in a name and 24 digits in a number
Local phonebook: 250 entries, maximum 48 character in a name and 24 digits in a number

TELEPHONY
Answer call: Button press or auto answer
Call list storage capacity: 50 calls (received, dialed and missed) with time stamp

MESSAGING[1]
Maximum message length: Up to 140 characters from handset, depending on language and system settings
Storage capacity: 30 received/sent messages (>20,000 characters)
Other: Configurable beeps depending on urgency, pre-programmed messages

LANGUAGES
Menu and message languages: Arabic, Czech, Danish, Dutch, English, Finnish, Flemish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (European), Russian, Simplified Chinese, Slovakian, Spanish, Swedish and Turkish plus one downloadable language

LOCATION[1] AND ALARM[2]
Location types[1]: Bluetooth Low Energy (BLE), DECT, Infrared (IR), Low Frequency (LF)
Alarm types[2]: Push button, man-down, no-movement and/or pull-cord
Optional add-ons: Acoustic Location Signal, post-alarm automatic emergency call

SECURITY
Encryption: Full support of the DECT Security EN300444 feature N35 (Enhanced security) and N36 (AES/DSAA2 authentication)

ENVIRONMENTAL
Operating temperature: -10° C to +55° C (+14° F to +131° F)
Storage temperature: -20° C to +60° C (-4° F to +140° F)
Charging temperature: +5° C to +40° C (+41° F to +104° F)
Enclosure protection: IP67, IEC EN60529
Immunity to ESD: 8 kV contact discharge and 16 kV air discharge, EN61000-4-2
Free fall test: IEC60068-2-31, procedure 1: dropped 12 times, specification extended to 2 m.
IEC60068-2-31, procedure 2: dropped 1000 times from 0.5 m
Climate stress: Handset exposed to rapid temperature and humidity changes
Temperature range: -40° C to +75° C (-40° F to +167° F)
Humidity range: 0% to 90%
Vibration test: Handset exposed to 30 Hz vibrations for a duration of 2.5 hrs
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

1. Supported on Messenger and Protector
2. Supported on Protector

Contact your nearest Ascom office for further technical data and specifications.
For contact details, go to ascom.com.

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