

# 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 IP65 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 five d83 versions (Talker, Messenger, Protector, Ex Messenger and Ex 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



Ascom d83 EX

Features	Talker	Messenger	Messenger EX	Protector	Protector EX
Telephony	X	X	X	X	X
Shock, vibration, drop, temperature and chemical resistant	X	X	X	X	X
Centralized device management	X	X	X	X	X
Central phone book	X	X	X	X	X
Bluetooth 5.0 for wireless headsets	X	X	X	X	X
3.5 mm contact for wired headsets	X	X	(X <sup>1</sup> )	X	(X <sup>1</sup> )
Shared phone	X	X	X	X	X
Advanced messaging including priority, confirmation, call setup, colors on display and LED	-	X	X	X	X
Services and shortcuts to phone calls, messaging, sending data, etc.	-	X	X	X	X
Location with BLE, DECT, IR and LF technologies	-	X	X	X	X
Push-button, man-down, no-movement and pull-cord alarms	-	-	-	X	X

<sup>1</sup>, NOTE! The wired headset is not allowed in EX hazardous area. Only the Bluetooth headset is approved for the EX version.

## Ascom d83 technical specifications

<p><b>BODY</b>  <b>Dimensions:</b> 150 x 64 x 23 mm  <b>Weight:</b> 175 g (incl. clip and battery)  <b>Display:</b> 40 x 50 mm (2. inch). TFT  <b>Color:</b> Handset: gray/black, Front plate: black  <b>Build:</b> Case: PC/ABS, Keypad: PC, Clip: PA  <b>Case:</b> Hinge type (standard), swivel type or no clip</p>	<p><b>AUDIO</b>  <b>Ring signal:</b> Adjustable in 8 steps  <b>Earpiece:</b> Adjustable in 8 steps of 3dB each  <b>Max. sound ring signal level:</b> 105 dBA @ 10 cm  <b>Loudspeaker:</b> Duplex loudspeaking function  <b>Voice Codecs:</b> G.722.2, G.726</p>	<p><b>PHONEBOOK</b>  <b>Central phonebook:</b> Unlimited number of entries, maximum 40 characters in a name and 20 digits in a number  <b>Company phonebook:</b> 1,000 entries, maximum 24 characters in a name and 24 digits in a number  <b>Local phonebook:</b> 250 entries, maximum 48 character in a name and 24 digits in a number</p>
<p><b>USER INTERFACE</b>  <b>Display:</b> High resolution, Color TFT display 262K individual colors. 240 x 320 pixel with white LCD backlight  <b>Indicator:</b> Sound, vibrator, illuminated display and/or a multicolored LED indicates incoming call/message  <b>Vibration:</b> Incoming call, alarm and message  <b>Buttons &amp; Keys:</b> 3 soft keys, 4-way navigation key, off-hook key, on-hook and power on/off key, backlit numerical keys, sound off key, volume up/down, alarm button, mute multifunction button and push-to-talk multifunction button</p>	<p><b>TELEPHONY</b>  <b>Indication:</b> Sound, vibrator, illuminated display and/or a multicolored LED indicates incoming call/message, 14 ring signals  <b>Answer call:</b> Button press or auto answer  <b>Call list storage capacity:</b> 50 received, dialed and missed calls, with time stamp  <b>Emergency numbers:</b> Up to 5 configurable, no need to unlock keypad before dialing</p>	<p><b>SECURITY AND ENCRYPTION</b>  Full support of the DECT Security EN300444 feature N35 (Enhanced security) and N36 (AES/DSAA2 authentication), as specified by the DECT forum</p> <p><b>INTRINSICALLY SAFE (EX CLASSIFICATION)***</b>   ATEX certified   IECEx certified   CSA certified for North America   UK Ex certified in the UK</p>
<p><b>LANGUAGES</b>  <b>22 languages:</b> Arabic, Czech, Danish, Dutch, English, Finnish, Flemish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (European), Russian, Simplified Chinese, Slovak, Spanish, Swedish and Turkish + one downloadable</p>	<p><b>MESSAGING*</b>  <b>Maximum message length:</b> Up to 140 characters from handset, depending on language and system settings  <b>Storage capacity:</b> 30 received/sent messages (&gt;20,000 characters)  <b>Other:</b> Configurable beeps depending on urgency, pre-programmed messages</p>	<p><b>BLUETOOTH</b>  Supports handsfree profiles  Bluetooth ver. 5.1 incl. BLE (iBeacon)</p>
<p><b>RADIO</b>  <b>DECT protocol detection:</b> Automatic detection and configuration for US DECT and EU DECT at initial registration  <b>Frequency range:</b> 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  <b>Modulation:</b> GFSK  <b>Channel spacing:</b> 1.728 MHz  <b>Antenna:</b> Two integral antennas for diversity  <b>Sensitivity:</b> –93 dBm  <b>Max. dynamic output power:</b> 10 mW: Europe, Latin America, Brazil, 4 mW: US</p>	<p><b>ENVIRONMENTAL</b>  <b>Operating temperature:</b> –10° C to +55° C (+14° F to +131° F)  <b>Storage temperature:**</b> –20° C to +60° C (-4° F to +140° F)  <b>Charging temperature:</b> +5° C to +40° C (+41° F to +104° F)  <b>Enclosure protection:</b> IP65, IEC EN60529  Immunity to ESD: 8 kV contact discharge and 16 kV air discharge, EN61000-4-2  <b>Free fall test:</b> 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  <b>Climate stress:</b> 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%</p>	<p><b>BATTERY</b>  <b>Type:</b> Li-ion 3.7 V, 920 mAh  <b>Speech time:</b> 20 hrs. Up to 10 hrs (with Bluetooth headset and location features enabled)  <b>Stand-by time:</b> Up to 120 hrs (with black screen saver activated and location features disabled)  <b>Charge time:</b> Approx. 3 hours in CR3 charging rack, DC3 desktop charger, and CR4 battery pack charger  <b>Discharge/charge cycles:</b> &gt;=80% capacity left after 400 full charge/discharge cycles</p>
<p><b>CONNECTORS</b>  Multi-purpose connector for fast software download, configuration, and battery charging</p> <p>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</p>	<p><b>Vibration test:</b> Handset exposed to 30 Hz vibrations for a duration of 2.5 hrs  <b>Chemical stress:</b> Handset exposed to oleic acid  <b>Keypad actuation test:</b> Keys pressed 15,000 times with a force of 13 N  <b>Squeeze test:</b> Handset squeezed 1,000 times with a force of 130 N</p>	<p><b>LOCATION*</b>  DECT location, BLE, LF and Infra Red (IR) location</p>
	<p><b>COMPLIANCE</b>  Compliance to EU, US, Canadian, Australian and New Zealand standards – please see the data sheet</p>	<p><b>ACCESSORIES</b>  See Accessories sheet</p>

\* Supported on Messenger and Protector

\*\* Storing Li-polymer batteries at high temperatures can rapidly and permanently reduce capacity

\*\*\* In EX classified areas; it is NOT permitted to charge the battery while it is in the intrinsically safe ATEX/IECEx telephone, remove the battery, or charge it separately



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**About Ascom**

*Our vision is a world where the right information moves people forward. Our mission is to put the right information in the right hands at the right time so that people can make the best possible decisions.*

*We are a global provider of communication and collaboration solutions for the acute care, long-term care and enterprise sectors. Our solutions are based on intelligent integrations with software and hardware that are open source and compatible with third party solutions. Every single second, our systems generate large amounts of data, which we then turn into useful and actionable information. This helps us to bring data to life for people in the toughest operational environments, ensuring smooth, complete, and efficient workflows.*

*Ascom is headquartered in Baar (Switzerland), has operating businesses in 19 countries and employs around 1,400 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.*