ascom

Product:	Ascom d81
	IP65 level water & dust resistance
	Advanced messaging, alarm & locationing
	Centralized management & phonebook
	Bluetooth compatible
	Licensing upgrade options

ASCOM d81
A ROBUST HANDSET, SPECIFICALLY DESIGNED FOR HARSH ENVIRONMENTS

Pick one up and you'll know this is no ordinary handset. From its tough, super-protective outer shell to its outstanding levels of functionality and operating safety, the Ascom d81 is the high quality handset demanding users in the most challenging of working environments turn to for operational excellence.

For More Information

To learn more about how a custom Ascom solution can improve your enterprise, contact us at 877-71ASCOM or visit www.ascom.us.

Harsh environments demand high levels of product endurance and reliability. The Ascom d81 is a full-featured handset that fulfills that need. In our own punishing durability regiment, each handset must endure falls from two meters and withstand twice the voltage required to pass standard electromagnetic (EMC) safety certification. The IP65 classification which measures resistance to dust and water, is another testament to the resilience of the d81.

Unprecedented levels of functionality and superior voice quality combined with Bluetooth and a full range of accessories make the d81 the logical choice for high performance in punishing conditions. Customizable and easy to navigate, the menus of the d81 are part of one of the most attractive and intuitive user interfaces available today.

The phonebook of the d81 can store up to 750 unique numbers. Lists of dialed, answered and missed calls are easily viewed and navigated thanks to logical, colored icons. The user is automatically notified of missed calls and can dial the number with the push of a button. A Central phonebook, accessible to all system users, is also available.

Advanced alarm functions include a one-touch, manual alarm activated by a prominent red button, an automatic man-down/no-movement alarm and a pull cord alarm. The alarm button may also be programmed to call and send and alarm simultaneously. Base station locationing technology allows the position of the alarm to be pinpointed with extreme accuracy — right down to a specific room. In an emergency, the location feature of the d81 can detect other staff members in close proximity and automatically message their handsets.

The functionality of the d81 handset can be enhanced through the application of additional licenses. d81 Messenger handsets, for example, may be upgraded to Protector functionality providing such as features as shared phone, DECT location and Bluetooth barcode reading capability.

Ascom d81 Handset Feature Comparison

	d81 Messenger	d81 Protector	d81 EX Messenger	d81 EX Protector
Color Display	✓	✓	✓	✓
Vibrate Alert	✓	✓	✓	✓
Loudspeaker	✓	✓	✓	✓
Wired Headset Connector	✓[1]	✓[1]	✓[1]	✓[1]
Bluetooth Headset Support	✓	✓	✓	✓
Bluetooth Data Support	✓[2]	✓[2]	✓[2]	✓[2]
Programmable Soft keys	✓	✓	✓	✓
Local Phonebook	✓	✓	✓	✓
Central Phonebook	✓	✓	✓	✓
Centralized Management	✓	✓	✓	✓
Professional Messaging	✓	✓	✓	✓
Push-button Alarm		✓		✓
Man-down/No-movement Alarm		✓		✓
Enhanced Push-to-Talk[3]	✓	✓	✓	✓
24/7 Use	✓	✓	✓	✓
Pull Cord		✓		✓
Acoustic Location Signal		✓		✓

d81 Handset Technical Specifications

EX HANDSET VARIANT ONLY

(Ex) **ATEX Approved: Offshore & EMEA**
II 2G, II 3D Ex ib IIC T4. Ex ibD 22 IP64 T50°C

(CSA) **CSA approved: North America, Class 1: Zone 1, 2**
AEx/Ex ib IIC T4. Class 1, Zone 1, Group IIC. Class 2, Division 2, Groups E, F & G. Tamb = -20°C to 40°C

Dimensions 5.59″ × 2.20″ × .98″
Weight (incl. battery & clip) 5.99 oz.
Display (CSTN) 1.10″ x 1.37″

Languages
Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Russian, Slovakian, Spanish, Swedish, Turkish, + 1 downloadable.

Connectors
Multi-purpose IP65 connector for headset, headset adapter, battery charging, software download and configuration.

Battery
Type: Li-polymer.
Speech time: up to 18 hr. (12 hr. with Bluetooth).
Stand-by time: up to 120 hr. (60 hr. with Bluetooth)[4].
Charge time: < 3 hr. Discharge/charge cycles: >=80% capacity left after 400 full charge/discharge cycles

Phonebook
Central Phonebook: Max. 40 characters in a name, 20 digits in a number.
Company Phonebook: Max. 24 characters in a name, 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 tone.

User Interface
High resolution CSTN display, 65,000 colors, 176 x 220 pixel backlit LCD.
Indicator: LED indicates incoming call/message.
Vibration: Incoming call/message.
Buttons & Keys: 3 Soft keys, Answer/Send, End/Power, 4 way navigation key, numerical keys, volume up/down, multifunction button.

Audio
Speaker Volume: 8 levels 88 dBA. Earpiece adjusts in 3dB increments. Duplex speaker function.

Telephony
Indication: 14 ring signals, flashing LED, vibration.
Answer call: Button press or auto answer.
Call list storage capacity: 25 received, dialed, missed calls.

Messaging
Max length: 160 characters from handset, system dependent to handset.
Storage: 30 received/sent messages (> 20,000 characters).

Radio
DECT protocol detection: Automatic detection and configuration for US DECT and EU DECT at initial registration.
Frequency range: EU (1880-1900 MHz), US (1920-1930 MHz), LA (1910-1930 MHz), BR (1910-1920 MHz).
Modulation: GFSK.
Channel spacing: 1.728 MHz.
Antenna: Integral. Sensitivity: -93 dBm.
Radiated power: EU (250 mW), US (100 mW)

Environmental
Operating temperature: 14°F to 131°F (14°F to 104°F Ex)
Storage temperature[5]: -4°F to 140°F.
Enclosure protection: IP65, IEC EN60529.
Immunity to electromagnetic fields: 3V/m EN61000-4-3.
Immunity to ESD: 4 kV contact discharge, 8 kV air discharge (EN61000-4-2).
Free fall test, standard product: IEC 60068-2-32, dropped 12 times from 1 meter. Approved for 12 drops from 1.5 meters.

Regulations & Standards (US)
Product marking: FCC ID BXZDH4, QD ID B014317, US 9FVW4NANDH4, HAC.
Specific Absorption Rate: FCC/OET Bulletin 65 Supplement C and IEEE Std. 1528 / ANSI/IEEE Std. C95.1, Normal operation 0.104 W/kg (1g), Body worn operation 0.029 W/kg (1g).
EMC/Radio: FCC Part 15 D, FCC Part 15 C (Bluetooth).
Hearing Aid: 47 CFR Part 68, Subpart D and TIA-968-A.

Regulations & Standards (Canada)
Product marking: IC 3724B-DH4, QD ID B014317.
Specific Absorption Rate: IEEE Std C95.3, Normal operation 0.104 W/kg (1g), Body worn operation 0.029 W/kg (1g).
EMC/Radio: RSS-213 and RSS-210 (Bluetooth), ICES-03.
Hearing aid: CS-03.

Bluetooth
Headsets: Nokia BH-804, Nokia BH-904, Plantronics Explorer 390, Plantronics Voyager 835, Plantronics Voyager PRO, Plantronics Discovery 925, Jabra BT530, SonyEricsson HBH-GV435, SonyEricsson HBH-PV740, Peltor M2RX7-WS4.
Barcode Readers: Baracoda ScanWear BSW-L, Baracoda Roadrunners BRR-L, Baracoda Pencil2, Opticon OPL-2724
Bluetooth radio: hardware variant (factory installed only).
Bluetooth radio spectrum: ISM 2.4000-2.4835 MHz.

Accessories
Optional licenses: Shared phone, bluetooth data.
Chargers: Desktop (basic and advanced), Charging rack and battery charging rack.
Headsets: microphone on boom (requires separate adapter), Peltor headset, ATEX/IECEx-classified headset adaptor for standard and ATEX-classified Peltor headsets
Clips (swivel, hinge) and clip cover.
Face plates (5 colors).
Security cord / Pull-cord. Leather case (includes swivel clip).

[1]Multi-purpose connector for charging, software download and configuration. Adapter for 2.5mm headset connector sold separately. [2]Additional Bluetooth data license required. [3]PTT functionality requires the IGC and AA60 or a customer supplied conference bridge. [4]Stand-by time is with activated screensaver. [5]Storing Li-Ion batteries at high temperatures can dramatically and permanently reduce capacity. All messaging and alarm features are system dependent and require additional equipment. Specifications are subject to change without notice. This product is not a medical device.