

DATA SHEET



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Ascom i63 VoWiFi Handset

Features

General

- Three variants: Talker, Messenger, and Protector
- Easy deployment
- Bluetooth for headset
- Loudspeaker function
- Multifunction button (Talker and Messenger) and programmable soft keys & hot keys
- Vibrating alert
- Particle and water resistant according to IP44
- Push-to-talk (PTT) (Messenger and Protector)
- Shared phone
- Voicemail

Alarm (Protector)

- Push-button alarm
- Man-down and No-movement alarm
- Acoustic Location Signal (ALS)
- Automatic call after alarm

Messaging (Messenger and Protector)

- Interactive messaging including message acknowledgement and graphical messaging

Location (Messenger and Protector)

- IR, LF (Protector)
- BLE (iBeacon)
- Associated WLAN access point (AP)
- Cisco MSE
- AiRISTA Flow RTLS

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Technical Specifications

Overview

Dimensions (l × w × h):	137 × 52 × 21 mm
Weight:	135 g (excl. clip) (4.8 oz)
Material:	Case: PC, Key pad: coated vulcanized silicone, Clip: PA
Color:	Black
Display:	31 × 41 mm (2.0 in), TFT color display 240 × 320 pixel LCD with white LED backlight
Clip:	Hinge-type (standard) or swivel-type

User Interface

Indicator:	Illuminated display for visual indication of incoming call, message, and charging
Vibrating Alert:	Incoming call and message Triggering alarm

Battery and Charging



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

Type:	Li-polymer 3.7 V 920 mAh
Speech Time:	10 h
Stand-by Time:	100 h
Charge Time:	<4 h

Connectors

Multi-purpose Connector:	With USB for fast software download, configuration, and battery charging
Headset Connector:	Standard 3.5 mm ¹

Audio

Ring Signal:	Maximum sound level 88 dB _A SPL @ 10 cm Adjustable in 8 steps
Earpiece:	Volume adjustable in 8 steps of 3 dB each
Loudspeaker:	Duplex loudspeaker function
Comfort Noise:	Constant noise level enhancing the quality of a call

1. Compatible with Android wired headsets only.

Specifications are subject to change without notice

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Languages	
Menu and Message Languages (20):	Arabic, Chinese (simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (European), Russian, Slovak, Spanish, Swedish, and Turkish
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 (one number per name) 1000 entries
Local Phonebook:	48-character name 30-digit work number 30-digit mobile phone number 30-digit other number Selectable ring signals per contact 250 entries
Telephony	
Indication:	Illuminated display Vibrating alert 14 ring signals Aggressive ring signal 5 beep signals 3 user-defined custom sounds
Answer Call:	Phone button press Headset button press Auto answer
Call List Storage Capacity:	25 calls (received, dialled and missed) with time stamp
Protocol:	SIP supporting RFC1889, RFC2327, RFC2833, RFC3261, RFC3264, RFC3265, RFC3515, and RFC3842
Encryption Protocol:	SRTP TLS 1.0, 1.1, and 1.2 for SIP TLS 1.0, 1.1, 1.2, and 1.3 for Wi-Fi
Voice Codecs:	Opus Wideband, G.711 A-law (EU), G.711 u-law (US), G.722, G.729, G.729A, G.729B, and G.729AB
Messaging (Messenger and Protector)	
Maximum Message Length:	160 characters from the handset. Message length to the handset is system-dependent.
Storage Capacity:	30 received/sent messages

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Location and Alarm	
Location Types (Messenger and Protector):	IR, LF (Protector) BLE (iBeacon) Associated WLAN access point (AP) Cisco MSE AiRISTA Flow RTLS
Alarm Features (Protector):	Push-button alarm, a dedicated alarm button with the ability to send different alarm types Man-down and No-movement alarm Acoustic Location Signal (ALS) Automatic call after alarm Emergency call alarm
Radio	
Receiver Sensitivity:	–87 dBm (802.11a, 6 Mbps), –93 dBm (802.11b, 1 Mbps), –87 dBm (802.11g, 6 Mbps), –86 dBm (802.11n, MCS0)
Frequency Range EU:	b/g: 2.4000–2.4835 GHz (Ch 1–13) a: 5.1700–5.3300 GHz (Ch 36–64), 5.4900–5.71000 GHz (Ch 100–140), 5.7350 – 5.8350 GHz (Ch 149-165)
Frequency Range USA:	b/g: 2.4000–2.4735 GHz (Ch 1–11) a: 5.1700–5.3300 GHz (Ch 36–64), 5.4900–5.8350 GHz (Ch 100–165)
Frequency Range Canada: (5.6000–5.6500 GHz is not allowed in Canada.)	b/g: 2.4000–2.4735 GHz (Ch 1–11) a: 5.1700–5.3300 GHz (Ch 36–64), 5.4900–5.5900 GHz (Ch 100–116), 5.6500–5.8350 GHz (Ch 132–165)
Maximum Average Power:	100 mW/20 dBm
Modulation Speed:	b: 1, 2, 5.5, 11 Mbps a, g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps n: MCS-0–MCS-7 ac: MCS-0–MCS-9
Bluetooth Radio Spectrum: Bluetooth Output Power:	ISM 2.4000–2.4835 GHz Maximum 3 dBm (Class 1)
WLAN	
Number of Networks:	Four systems, auto and manual selection
Quality of Service (QoS):	WMM, TSPEC-based CAC
Supported Networks:	802.11 a/b/g/n/ac (MCS0-7)
Regulatory Domain:	802.11 d/h

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Security	
Security Standard:	802.11i, 802.11w
Encryption Methods:	AES-CCMP, TKIP
Authentication Methods:	Open WPA/WPA2-PSK PEAP-MSCHAPv2 EAP-TLS
Certificate Enrollment Standard:	SCEP
Roaming Enhancement	
802.11r, 802.11k Opportunistic Key Caching PMKSA caching	
Bluetooth	
Supported Version:	5.0
Supported Profiles:	Headset and handsfree
Additional Features	
List of Features:	Centralized management Easy access to PBX services Easy replaceable battery Mute button/Sound off key Programmable headset button Programmable handset restrictions Customizable menus Customizable sounds Clear message and call lists in charger Possible to view messages and call information upside down Site survey tool Dynamic output power
Licenses	
WH2-L01:	Upgrade license Ascom i63 Talker to Messenger
WH2-L02:	Upgrade license Ascom i63 Talker to Protector light (Only alarm button functionality)
WH2-L03:	Upgrade license Ascom i63 Messenger to Protector light (Only alarm button functionality)

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Accessories

List of Accessories:

Desktop charger
 Charging rack
 Battery pack
 Battery pack charger
 Desktop programmer
 Carrying case
 Standard clip
 Swivel clip
 Security string
 Silicon cover
 Headset with microphone on cable
 Headset with microphone on boom
 Headset adapter 3.5 mm to QD

Environmental

Operating Temperature:	-5°C – +45°C (+23°F – +113°F)
Storage Temperature ² :	-20°C – +60°C (-4°F – +140°F)
Charging Temperature:	0°C – +45°C (+32°F – +113°F)
Immunity to Electromagnetic Fields:	10 V/m (IEC 61000-4-3)
Immunity to ESD:	8 kV contact discharge and 15 kV air discharge (IEC 61000-4-2)
Enclosure Protection:	IP44, IEC 60529
Free Fall Test:	IEC 60068-2-31 (Supersede IEC 60068-2-32), procedure 1, dropped 12 times from 1.5 m IEC 60068-2-31 (Supersede IEC 60068-2-32), procedure 2, dropped 1000 times from 0.5 m
The Following Chemicals have Shown no Harmful Effects:	3% Hydrochloric Acid M-alcohol (70% Methylated Ethanol) 60% Chlorhexidine 0.5 mg/ml

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Compliance to Regulations and Standards

Bluetooth Marking:



BT QD: 118271BT QD: D044287

Compliance to European Regulations and Standards

Product Marking:



EU Directives:

2014/53/EU (RED) and RoHS 2015/863 (RoHS3) amending Directive 2011/65/EU (RoHS)

SAR (Specific Absorption Rate):

EN 50360, 0.637 W/kg (10 g)

Safety:

EN 62368-1

Bluetooth:

EN 300 328, EN 301 489-17

EMC:

EN 301 489-01, EN 301 489-17, EN 55032, EN 60601-1-2

Radio:

EN 300 328, EN 301 893

Compliance to US Regulations and Standards

Product Marking:

FCC ID: BXZWH2

HAC

US: 9FVIPNANWH2

SAR (Specific Absorption Rate):

FCC/OET Bulletin 65 Supplement C and IEEE Std. 1528

Normal operation 1.108 W/kg (1 g)

Body worn operation 1.586 W/kg (1 g)

Safety:

UL 62368-1

EMC/Radio:

FCC Part 15 E, FCC Part 15 C, and FCC Part 15 B

Hearing Aid:

FCC 47CFR part 68

Compliance to Canadian Regulations and Standards

Product Marking:

IC: 3724B-WH2

SAR (Specific Absorption Rate):

RSS-102, Issue 5

Body Worn 1.586 W/kg (1 g)

Left Head 1.108 W/kg (1 g)

Safety:

CAN/CSA-C22.2 NO. 62368-1-14

EMC/Radio:

RSS-GEN and RSS-247

Hearing Aid:

CS-03 Part V, Issue 9, Amendment 1

Compliance to Australian and New Zealand Regulations and Standards

Product Marking:



SAR (Specific Absorption Rate):

EN 62209-1, 0.637 W/kg (10 g)

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Safety:	AS/NZS 62368:2018
Bluetooth:	AUS/NZS-4771
EMC:	Radiocommunications (Electromagnetic Compatibility) Standard 2008
Radio:	Radiocommunications (Short Range Devices) Standard 2014, AS/NZS 4268
Audio:	AS/CA S004

2. Storing Li-polymer batteries at high temperature dramatically reduces their capacity. See [Battery Storage and Maintenance Guidelines](#).

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