

DATA SHEET



Ascom Myco 4 Wi-Fi

Features

- Professional barcode scanner with aimer
 - reading 1D/2D barcodes and Postal Codes
- Man-down and no-movement detection
- Pull-cord alarm
- Native SIP telephony
 - certified interoperability with major IP-PBXs
- Location services: Ascom IR, BLE, Wi-Fi
- Biometric identification
 - fingerprint reader, facial recognition
- Optimized for use in medical gloves
- Disinfection-ready for daily cleaning incl. UV
- Deployment with Zero-touch, QR code, NFC
- Over-the-air administration via EMM + OEMConfig app

Physical Design

- IP68 dust and liquid resistant
- Multicolor top LED
- Configurable multifunction buttons
- Easily replaceable battery, hot-swap
- Rack and desktop chargers with profiling functionality
- Built-in carrying clip (removable)

Network

- Enterprise grade Wi-Fi 6/6E

Technical Specifications	
Overview	
Operating system:	Android™ 13 (upgradable to Android 17)
CPU:	Qualcomm 6490, 2 GHz Octa-core
GPU:	3D Hardware accelerated graphics
Internal memory:	128 GB Flash, 6 GB RAM
External connections:	USB-C (headset, charging and data transfer/configuration)
Sensors:	NFC, three-axes accelerometer, three-axes gyroscope, proximity sensor, light sensor, compass, Ascom IR location
Browser:	HTML5
Buttons:	Power button, Volume buttons (up/down), Multifunction buttons
Available languages:	Ascom specific: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Slovak, Spanish, Swedish Supported Android languages: approx. 60
Dimension (H×W×D):	154.6 x 72.6 x 18.9 mm (6.08 x 2.85 x 0.74 in)
Weight:	253 g (8.9 oz)
Color:	Black
Carrying:	Removable carrying clip with exchangeable color stickers (4 colors: red, yellow, green, blue)
Display	
Type:	TFT LCD, Deca capacitive touchscreen
Size and resolution:	5.5", 2160 x 1080 display
Protection:	Corning® Gorilla® Glass 5
Indication	
Types (notifications):	Multicolor LED, vibration
Camera	
Flash:	Yes (can also be used as flashlight)
Auto focus:	Yes
Front-facing camera:	Single lens camera (8 Megapixels)
Rear-facing camera:	Single lens camera (50 Megapixels)
Audio	
Voice quality:	Wideband audio, HD audio
Transmission:	Full duplex (simultaneous talking and listening)

Specifications are subject to change without notice

Loudspeaker:	Duplex loudspeaking function
Maximum sound ring signal level:	88 dBA at 10 cm
Hearing aid:	American (US) Hearing Aid Compatible (HAC) standard
Microphone:	Speech microphone on the bottom side Noise canceling microphone on the top side
Battery	
Type:	Main easily replaceable Li-ion 4000 mAh battery Built-in Li-ion 160 mAh battery for uninterrupted operation during hot swapping of the main battery
System stand-by time:	Up to 340 hours
Speech time:	Up to 20 hours
Browsing time:	Up to 14 hours
Charging time:	Fast charging with a USB-C cable, approx. 2 hours (0-90% charging) and approx. 0.5 hours (0-50% charging)
Headset	
Allowed headsets:	Any Bluetooth or Android compatible USB-C headset
Bluetooth	
Supported version:	5.2 with Bluetooth Low Energy (BLE)
Radio spectrum:	ISM 2.4000 — 2.4835 GHz
Output power:	Class 1
BLE beacon protocols:	iBeacon, AltBeacon
NFC	
Modes & supported standards:	NFC Forum Tag Types 1, 2, 3, 4, 5 (defined by the NFC Forum) (MIFARE Ultralight, Jewel, Open FeliCa tag, MIFARE DESFire, MIFARE Classic) FeliCa PCD mode ISO/IEC 14443A, ISO/IEC 14443B PICC mode via ISO/IEC 15693/ICODE VCD mode host interface ISO/IEC 14443A, ISO/IEC 14443B PCD designed according to NFC Forum digital protocol T4T platform and ISO-DEP MIFARE PCD encryption mechanism (MIFARE 1K/4K) NFCIP-1, NFCIP-2 protocol Host Card Emulation SWP
NFC band:	13.56 MHz
Field strength:	42 dBμA/m at 10 m

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Biometric Identification

Types of biometrics:	Fingerprint reader on Power button Facial recognition
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Ascom Infrared Location Receiver

IR wavelength:	940 nm
Carrier frequency IR:	38.7 kHz / 40.6 kHz
Modulation:	FSK
Interference handling:	Yes, capable to handle interference such as sunlight and EMI

Location Services

Location technology:	Ascom IR location, BLE, Wi-Fi
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Wi-Fi

Supported standards:	802.11 a/b/g/n/ac/ax 802.11 k/r/v fast transition roaming 802.11 mc for location 802.11 w 802.11 u
Frequency range:	<div>EU (ETSI): b/g/n/ax: 2.4–2.483 GHz (Ch 1-13) a/n/ac/ax: 5.15–5.35 GHz (Ch 36-64), 5.47–5.725 GHz (Ch 100-140), 5.725–5.850 GHz (Ch 149–165) ax: 5.945–6.425 GHz (Ch 1–93)</div> <div>USA (FCC): b/g/n/ax: 2.4–2.473 GHz (Ch 1–11) a/n/ac/ax: 5.15–5.35 GHz (Ch 36-64), 5.47–5.835 GHz (Ch 96-165), 5.925–7.125 GHz ax: 5.945–7.125 GHz (Ch 1–233)</div> <div>Canada (IC): b/g/n/ax: 2.4–2.473 GHz (Ch 1–11) a/n/ac/ax: 5.15–5.35 GHz (Ch 36–64), 5.47–5.59 GHz (Ch 96–116), 5.65–5.835 GHz (Ch 132–165) NOTE: The 5.600–5.650 GHz frequency band is disabled for use. ax: 5.945–7.125 GHz (Ch 1–233)</div>

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Maximum output power:	100 mW at 2.4 GHz 200 mW at 5.2 GHz 100 mW at 5.3 GHz 100 mW at 5.5 GHz 25 mW at 5.8 GHz 200 mW at 6 GHz For details refer to <i>Ascom Myco 4 Safety Instructions</i> .
Radar detection:	802.11h
Regulatory domain:	Country dependent
Network selection (SSID):	Multiple, auto selection, and manual selection
Quality of Service (QoS):	802.11e and WMM
Security standard:	802.11i
Encryption methods:	AES-CCMP 128/256, AES-GCMP 128/256, SAE
Encryption protocols:	TLS 1.1, TLS 1.2, and TLS 1.3 for Wi-Fi
Authentication methods:	802.1X Original IEEE 802.11 open, OWE, WPA-PSK, WPA2-PSK, WPA3-SAE, WPA2-Enterprise, WPA3-Enterprise, PEAP-MSCHAPv2, EAP-TLS, EAP-TTLS
Roaming enhancements:	Opportunistic Key Caching, PMKSA caching
SIP Telephony	
Protocols:	SIP supporting RFC3550, RFC4566, RFC4733, RFC4734, RFC3261, RFC3264, RFC6665, and RFC3515
Encryption protocol:	SRTP including TLS
Voice codecs:	G.711 A-law (EU), G.711 u-law (US), G.722, G.729

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Supported Barcodes

1D symbologies:	UPC / EAN / ISBN Bookland EAN ISSN EAN Code 39 Trioptic Code 39 Code 32 Code 93 Code 11 Codabar / NW-7 MSI Inverse 1D symbologies	Interleaved 2 of 5 Discrete 2 of 5 / Standard 2 of 5 / Industrial 2 of 5 / IATA 2 of 5 Chinese 2 of 5 Korean 3 of 5 Matrix 2 of 5 Code 128 GS1-128 / UCC Coupon Code ISBT 128 GS1 DataBar
2D symbologies:	Composite TLC-39 PDF417 MicroPDF417 Data Matrix Maxicode QR Code MicroQR	Composite Codes Aztec Han Xin Inverse Data Matrix Inverse QR Code Inverse Aztec Inverse Han Xin
Postal codes:	US Postnet US Planet UK Postal Japan Postal	Australia Post Netherlands KIX Code USPS 4CB / One Code / Intelligent Mail UPU FICS Postal
Decode ranges examples:	Code 128 (barcode size 5 mil): near 5.8 cm (2.3 in); far 24.9 cm (9.8 in) Code 39 (barcode size 3 mil): near 7.6 cm (3.0 in); far 14.7 cm (5.8 in) PDF417 (barcode size 5 mil): near 7.6 cm (3.0 in); far 20.1 cm (7.9 in) PDF417 (barcode size 6.67 mil): near 6.3 cm (2.5 in); far 25.7 cm (10.1 in) Data Matrix (barcode size 10 mil): near 5.3 cm (2.1 in); far 27.8 cm (11.0 in) UPCA (barcode size 100%): near 4.1 cm (1.6 in); far 63.2 cm (24.9 in) Code 128 (barcode size 15 mil): near 6.1 cm (2.4 in); far 70.6 cm (27.8 in) Code 39 (barcode size 20 mil): near 4.1 cm (1.6 in); far 91.7 cm (36.1 in) QR (barcode size 20 mil): near 2.8 cm (1.1 in); far 44.5 cm (17.5 in)	
Environmental		
Operating temperature:	-20° to 60° C (-4° to 140° F)	
Storage temperature:	-20° to 50° C (-4° to 122° F), less than 1 month for the battery NOTE: Storing Li-ion batteries at high temperature dramatically reduces their capacity.	
Charging temperature:	5° to 40° C (41° to 104° F)	
Enclosure protection:	IP68, 1.5 m for 30 min	

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Disinfection possibilities:	<p>Daily up to five times with Ethanol 85%, VirkonS 1%, Dettol Antiseptic, 85% mentholated ethanol, and also Isopropyl/Isopropanol 85%</p> <p>Sporadic up to one time a week with Ethanol 85%, and also 60% Chlorhexidin 0.5 mg/ml</p> <p>Oleic acid CAS No.: 112-80-1</p> <p>UV cleaning 60 s, 5 times per day</p>
Medical gloves:	<p>The device is verified for use in the following gloves:</p> <p>Nitrile gloves with the thickness of 0.05 mm</p> <p>Vinyl gloves with the thickness of 0.035 mm</p>
Immunity to electrostatic discharge (ESD):	8 kV contact discharge and 15 kV air discharge (EN61000-4-2)
Free fall test:	<p>IEC 60068-2-31, procedure 1, dropped 12 times from 1.2 meters</p> <p>IEC 60068-2-31, procedure 2, dropped 1000 times from 0.5 meters</p> <p>NOTE: IEC 60068-2-31 supersedes IEC 60068-2-32 and requirements are equivalent in free fall test.</p>
Drop test (shock test):	Multiple drops over a concrete block according to MIL-STD-810G
Product Variants	
SH4-AABC	Ascom Myco 4 Wi-Fi
SH4-AABB	Ascom Myco 4 Wi-Fi EEA
Accessories	
CB1-U1	Charger base
CTH-U01	Charger module for handset
CTH-U02	Charger module for handset and battery
CTB-U01	Charger module for battery
Backward compatible with DC5-AAAB	Desktop charger
Backward compatible with CR7-AAAA	Charging rack
Backward compatible with CR8-AAAA	Battery pack charger (must be used in combination with battery adapter 660746)
660746	Battery adapter for CR8-AAAA battery pack charger
660275	Pull-cord string
660653	Cover plug kit for pull-cord alarm (10 pcs)
660730	Standard clip
660731	Clip blind plate
660732	Swivel clip (including belt clip)

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660579	Color stickers for standard clip
660733	Spare battery pack
660735	Screen protector kit
660736	USB-C power supply 4A
660737	USB-C cable

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Compliance to Regulations and Standards

Bluetooth marking:



Compliance with European and UK Regulations and Standards

Product marking/certification:



EU directives and regulations:

RoHS in Electrical and Electronic Equipment Regulations 2015/863 amending 2011/65/EU
 REACH Regulation (EC) 1907/2006
 Battery Directive 2006/66/EC amending 2013/65/EU
 Packaging Directive 94/62/EC
 WEEE Directive 2012/19/EU
 RED Directive 2014/53/EU

UK directives and regulations:

RoHS in Electrical and Electronic Equipment Regulations 2012
 The REACH Enforcement Regulations 2008
 The Batteries and Accumulators (Placing on the Market) Regulations 2008 and the Waste Batteries and Accumulators Regulations 2009
 The Packaging (Essential Requirements) Regulations 2015
 The Waste Electrical and Electronic Equipment Regulations 2013
 Radio Equipment Regulations 2017

Radio:

EN 300328, EN 301893, EN 300440, EN 300330, EN 303687

SAR (Specific Absorption Rate):

EN 50360 (close to ear) 0.294 W/kg (10 g)
 EN 50566 (handheld/body mounted) 0.402 W/kg (10 g)
 Limbs 0.808 W/kg (10 g)

Safety:

EN 62368-1

EMC:

EN 301489-1, EN 301489-3, EN 301489-17, EN 55032, EN 55035

Compliance with US Regulations and Standards

Product marking/certification:

FCC ID: BXZSH2

SAR (Specific Absorption Rate):

FCC 47CFR §2.1093(d) and IEEE Std. 1528
 Normal operation 0.75W/kg (1 g).
 Body worn operation 0.71 W/kg (1 g).

EMC/Radio:

FCC 47CFR Part 15 Subpart B, FCC 47CFR Part 15 Subpart C, FCC 47CFR Part 15 Subpart E


Safety:

UL 62368-1

Hearing aid:

FCC 47CFR part 68

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Compliance with Canadian Regulations and Standards	
Product marking/certification:	ISED: 3724B-SH2
SAR (Specific Absorption Rate):	RSS-102, Normal operation 0.75 W/kg (1 g) Body worn operation 0.71 W/kg (1 g)
EMC/Radio:	RSS-247, RSS-210, ICES-003
Safety:	CAN/CSA-C22.2 NO. 62368-1
Hearing aid:	CS-03 Part V
Compliance with Australian and New Zealand Regulations and Standards	
Product marking:	
EMC/Radio:	AS/NZS 4268, EN 55032
Audio:	AS/ACIF S004
Safety:	AS/NZS 62368
SAR (Specific Absorption Rate):	EN 50360 (close to ear) 0.294 W/kg (10 g) EN 50566 (handheld/body mounted) 0.402 W/kg (10 g) Limbs 0,808 W/kg (10 g) AS/NZS 2772.2 IEC 62479–1, IEC IEC62479–2

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