

# DATA SHEET



## Ascom Myco™ 3 Wi-Fi

### Features

- Android™ 8.1. (Oreo™) <sup>1</sup>
- Supports third-party Apps
- NFC support
- Professional barcode scanner supporting 1D, 2D and Postal Codes
- Easy replaceable battery to support long shifts
- True hot swap
- Google™ certification <sup>2</sup>
- Google™ Mobile Services - GMS (Google apps and services)
- Headset support
- Supports Wi-Fi 802.11 a/b/g/n/ac
- Multi-color LED
- Corning® Gorilla® Glass 3 <sup>3</sup>
- Durable and robust
- Configurable Multifunction buttons
- IP67 dust and liquid resistant
- Chemical resistant
- Charging racks and desktop chargers

1. Android is a trademark of Google LLC; Oreo is a trademark of Mondelez International, Inc. group.

2. Google is a trademark of Google LLC.

3. Corning and Gorilla are registered trademarks of Corning Incorporated.

## TECHNICAL SPECIFICATIONS

### Overview

Operating System:	Android™ 8.1 Oreo™
CPU:	2.3/1.8 GHz Octa-core
GPU:	3D Hardware accelerated graphics
Internal Memory:	32 GB Flash, 4 GB RAM
Connector:	Micro USB v2.0 or higher ( charging and data transfer/configuration)
Sensors:	NFC Three-axes accelerometer Three-axes gyroscope Proximity sensor Light sensor Ascom IR location
Browser:	HTML5
Buttons:	Power button, Volume button (up/down), Multifunction buttons, Home button, Back button, Overview button
Available Languages:	Ascom specific: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Portuguese (Brazil), Russian, Spanish, Swedish Supported Android languages: approx. 60
Dimension (H×WxD):	150 x 76 x 14/16 mm (5.90 x 2.99 x 0.55/0.63 in)
Weight:	239 g (8.43 oz)
Color:	Black
Cover:	Aluminum chassis
Carrying:	Removable carrying clip (easy carry, prevent drops) With exchangeable color stickers (4 colors: Green, Yellow, Blue, Red)

### Display

Type:	TFT LCD, Deca capacitive touchscreen
Size and Resolution:	Diagonal 12.7 cm, (5") 1920 x 1080 display (441 ppi) FHD
Protection:	Corning® Gorilla® Glass 3

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Indication	
Types (Notifications):	Multi-color LED Vibration Ringtones Message beeps Notification sounds
Camera	
Flash:	Yes (can be also used as flashlight)
Auto Focus:	Yes
Front-facing Camera Resolution:	2592 x 1944 pixels (5 Megapixels)
Rear-facing Camera Resolution:	4160 x 3120 pixels (13 Megapixels)
Supported Barcodes	
1D Symbologies:	<ul style="list-style-type: none"><li>• UPC / EAN</li><li>• Bookland EAN</li><li>• UCC Coupon Code</li><li>• ISSN EAN</li><li>• Trioptic Code 39</li><li>• Code 32</li><li>• Interleaved 2 of 5</li><li>• Composite Codes</li><li>• Discrete 2 of 5</li><li>• Codabar</li><li>• Matrix 2 of 5</li><li>• Inverse 1D</li><li>• Code 93</li><li>• Code 11</li><li>• MSI</li><li>• GS1 DataBar</li><li>• Code 128</li><li>• GS1-128</li><li>• Code 39</li><li>• Chinese 2 of 5</li><li>• Korean 3 of 5</li></ul>

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2D Symbologies:	<ul style="list-style-type: none"> <li>• PDF417</li> <li>• MicroPDF417</li> <li>• Maxicode</li> <li>• Aztec</li> <li>• QR Code</li> <li>• MicroQR</li> <li>• Han Xin</li> <li>• Aztec Inverse</li> <li>• Data Matrix</li> <li>• Data Matrix Inverse</li> <li>• QR Inverse</li> <li>• Han Xin Inverse</li> </ul>
Postal Codes:	<ul style="list-style-type: none"> <li>• US Postnet</li> <li>• UK Postal</li> <li>• Japan Postal</li> <li>• US Planet</li> <li>• Australian Postal</li> <li>• Netherlands KIX Code</li> <li>• USPS 4CB / One Code / Intelligent Mail</li> <li>• UPU FICS Postal</li> </ul>
Decode Ranges Examples:	<ul style="list-style-type: none"> <li>• Code 128 (barcode size 5 mil) (near 2.0 in / 5.1 cm; far 4.8 in / 12.2 cm)</li> <li>• Code 39 (barcode size 5 mil) (near 1.7 in / 4.3 cm; far 5.8 in / 14.7 cm)</li> <li>• PDF417 (barcode size 6.6 mil) (near 1.6 in / 4.1 cm; far 4.9 in / 12.4 cm)</li> <li>• Data Matrix (barcode size 10 mil) (near 1.2 in / 3.0 cm; far 4.9 in / 12.4 cm)</li> <li>• QR (barcode size 10 mil) (near 1.1 in / 2.8 cm; far 5.2 in / 13.2 cm)</li> <li>• UPCA (barcode size 100%) (near 2.0 in / 5.1 cm; far 10.6 in / 26.9 cm)</li> <li>• Code 39 (barcode size 20 mil) (near 2.1 in / 5.3 cm; far 13.6 in / 34.5 cm)</li> </ul>
<b>Audio</b>	
Voice Quality:	Wideband audio
Transmission:	Full duplex (simultaneous talking and listening)
Loudspeaker:	Duplex loudspeaking function
Maximum Sound Ring Signal Level:	88 dBA at 10 cm
Hearing Aid:	American (US) Hearing Aid Compatible (HAC) standard

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Microphone:	Speech microphone on the bottom side Noise canceling microphone on the top side
Sound Pressure Level Range (Medium Priority Alarm (1 beep)):	43 dB - 70 dB
Sound Pressure Level Range (High Priority Alarm (siren)):	43 dB - 70 dB
Sound Pressure Level Range for Adjustable Auditory Signals:	43 dB - 70 dB
<b>Accessories</b>	
CR7-AAAA	CR7 Charging Rack
CR8-AAAA	CR8 Battery Charging Rack
DC5-AAAB	DC5 Desktop Charger SH2 (including single battery charger)
660578	Battery Pack SH2 (incl. Battery cover)
660579	Color stickers for clip SH2
660587	Power supply
660586	Micro USB cable
660587	USB Power supply (delivered with interchangeable plugs for EU, UK, USA/CA, and AU/NZ)
660580	Cover rear, no clip SH2
660585	Cover rear, with clip SH2
660589	Replacement Screen Protector Kit
<b>Battery</b>	
Type:	Main easily replaceable Li-ion 2935 mAh battery Built-in Li-ion 200 mAh battery
System Stand-by Time:	Approx. up to 100 hours
Speech Time:	Approx. up to 15 hours
Charging Time:	Approx. 5 hours (in Charging Rack - CR7)
<b>Bluetooth</b>	
Radio Spectrum:	ISM 2.4000 — 2.4835 GHz
Output Power:	Class 1, maximum 10dBm

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Headset	
660516	Headset, mic on cable 3.5 mm
660515	Headset adapter with QD 3.5 mm
660508	Headset “mic on boom” with QD, BIZ 2400 II (requires adapter 660515 )
	Any Android compatible 3.5 mm headset
Wi-Fi	
Supported Standards:	Wi-Fi 802.11 a/b/g/n/ac
Frequency Range:	EU (ETSI): b/g: 2.4–2.4835 GHz (Ch 1-13), and a: 5.15–5.35 GHz (Ch 36-64), 5.47–5.725 GHz (Ch 100-140)  USA/Canada (FCC): b/g: 2.4–2.4835 GHz (Ch 1-11), and a: 5.15–5.35 GHz (Ch 36-64), 5.47–5.71 GHz (Ch 100-140), 5.725–5.850 GHz (Ch 149-165)
Data Rates:	802.11 a/n/ac - Single stream - MCS0-9 - 20/40/80 MHz: Up to 433 Mbit/s 802.11 b/g/n - Single stream - MCS0-7 - 20/40 MHz: Up to 150 Mbits/s
Radar Detection:	802.11h
Regulatory Domain:	Country dependent
Network Selection (SSID):	Multiple, auto selection, and manual selection
Quality of Service (QOS):	WMM
Security Standard:	IEEE 802.11i
Encryption Methods:	AES-CCMP
Authentication Methods:	802.1X Original 802.11 open/ WPA-PSK/WPA2-PSK/PEAP-MSCHAPv2/EAP-TLS/ EAP-TTLS/MSCHAPv2 Authentication certificate
Roaming Enhancements:	Opportunistic Key Caching, PMKSA caching 802.11 k/r/v fast transition roaming
Receiver Sensitivity (Typical Values):	-87 dBm (802.11a, 6 Mbit/s), -93dBm (802.11b, 1 Mbit/s), -87 dBm (802.11g, 6 Mbit/s), -86 dBm (802.11n, MCS0)
Antenna:	Internal integral
Maximum Output Power:	100 mW / 20 dBm

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Ascom IR Location Receiver	
IR Wavelength:	940 nm
Carrier Frequency IR:	38.7 kHz / 40.6 kHz
Modulation:	FSK
Interference Handling:	Can handle interference such as sunlight and EMI Short range mode for sites with a great deal of sunlight interference
NFC	
Modes & Supported Standards:	Read/write: NfcA (ISO14443-3A) NfcB (ISO14443-3B) NfcF (JIS 6319-4) NfcV (ISO 15693) soDep (ISO 14443-4) NFC Forum Tag Types 1, 2, 3, 4 (defined by the NFC Forum)
	Peer-to-peer: NFCIP-1 (ISO 18092) LLCP 1.1 SDP 1.0 NDEF Push Protocol SNEP 1.0
	Host Card Emulation
Environmental	
Operating Temperature:	-20° to 40° C (-4° to 104° F)
Storage Temperature: <sup>4</sup>	-20° to 50° C (-4° to 122° F), less than 1 month for the battery
Charging Temperature:	>=5° to 40° C (>=41° to 104° F)
Enclosure Protection:	IP 67
Disinfection Possibilities:	Daily up to five times with Ethanol 85%, VirkonS 1%, Actichlor Plus 0.1% Chlorine, Aseptix hydrogen peroxide (H2O2), and also Isopropyl/ Isopropanol 85% Sporadic up to one time a week with Ethanol 85%, and also Chlorhexidin 0.5 mg/ml
Immunity to Electrostatic Discharge (ESD):	8 kV contact discharge and 15 kV air discharge (EN61000-4-2)

4. Note that storing Li-ion batteries at high temperature dramatically reduces their capacity. See the Battery Storage and Maintenance Guidelines at: <https://confluence.ascom-ws.com/display/SD/Battery+Storage+and+Maintenance+Guidelines>

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Estimated Free Fall Test:	IEC 60068-2-32, procedure 1, dropped 12 times from 1 meter IEC 60068-2-32, procedure 2, dropped 1000 times from 0.5 meters
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### Ascom Myco Article Numbers

Ascom Myco 3 Wi-Fi	SH2-ABAA
Ascom Myco 3 Wi-Fi EU	SH2-ABBA

### Compliance with European Regulations and Standards

EU directives and regulations:	2014/53/EU (RED), 2009/125/EC (Eco Design), 2015/863 (RoHS3) amending 2011/65/EU, 2012/19/EU (WEEE), 94/62/EC (Packaging and packaging waste), 2006/66/EC (Battery Directive), Regulation 1907/2006 (REACH)
Product marking/certification:	  BT QD: 121361
Radio:	EN 301908-1, EN 301908-13, EN300328, EN 301 893, EN303 413, EN300440, EN300330
SAR (Specific Absorption Rate):	EN50360 (close to ear) 0.121 W/kg (10 g) EN50566 (handheld/body mounted) 0.194 W/kg (10 g)
Safety:	EN 62368-1
EMC:	EN 301489-1, EN 301489-3, EN 301489-17, EN 301489-19, EN 55032:2015, EN 55035:2017

### Compliance with US Regulations and Standards

Product marking/certification:	FCC ID: BXZSH2  BT QD: 121361
SAR (Specific Absorption Rate):	FCC 47CFR §2.1093(d) and IEEE Std. 1528 Normal operation 0.324 W/kg (1 g). Body worn operation 0.518 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  BT QD: 121361
SAR (Specific Absorption Rate):	RSS-102, Issue 5 Normal operation 0.324 W/kg (1 g) Body worn operation 0.518 W/kg (1 g)
EMC/Radio:	RSS-247, RSS-210, ICES-003
Safety:	CAN/CSA-C22.2 NO. 62368-1-14
Hearing Aid:	CS-03 Part V Issue 9

### Compliance with Australian and New Zealand Regulations and Standards

Product marking:	  BT QD: 121361
EMC/Radio:	AS/NZS 4268, EN 55032:2012
Audio:	AS/ACIF S004
Safety:	AS/NZS 62368.1:2018
SAR (Specific Absorption Rate):	EN50360 (close to ear) 0.121 W/kg (10 g) EN50566 (handheld/body mounted) 0.194 W/kg (10 g)

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