

## DATA SHEET



## Ascom Myco™ 3 Wi-Fi and Cellular

### Features

- Android™ 8.1. (Oreo™) <sup>1</sup>
- Supports third-party Apps
- NFC support
- Supports networks: GSM/ 3G / LTE
- 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.

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## 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×W×D):	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

### Indication

Types (Notifications):	Multi-color LED Vibration Ringtones Message beeps Notification sounds
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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>• Composite Codes</li> <li>• Codabar</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>
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>

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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
Microphone:	Speech microphone on the bottom side Noise canceling microphone on the top side
Sound Pressure Level Range: – Medium Priority Alarm (1 beep) – High Priority Alarm (siren) – Adjustable Auditory Signals	IEC60601-1-8 , 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)

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660578	Battery Pack SH2 (incl. Battery cover)
660579	Color stickers for clip SH2
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:	Up to 120 hours
Speech Time:	Up to 20 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
<b>Headset</b>	
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
	Headset connector for Android compatible headsets, CTIA pinout
<b>Ascom IR Location Receiver</b>	
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

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<b>Wi-Fi</b>	
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
<b>NFC</b>	
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, 5 (defined by the NFC Forum)

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	Peer-to-peer: NFCIP-1 (ISO 18092) LLCP 1.1 SDP 1.0 NDEF Push Protocol SNEP 1.0
	Host Card Emulation
<b>Cellular</b>	
Frequency bands:	LTE : FDD B1, B3, B5, B7, B8, B20 LTE : TDD B38, B40, B41 3G: WCDMA (B1, B5, B8) GSM: 850/900/1800/1900
SIM card type:	Nano- SIM
Antenna:	Internal integral
Maximum output power:	GSM/GPRS/EGPRS (EDGE) Class 4 UMTS: (CS) Class 3 UMTS: (PS) Class 3 HSPA: Class 3 LTE: Class 3
Data rates:	LTE Cat 7 Cat 24 HSPDA Cat 7 HSUPA Cat 14 TD-HSDPA Cat 6 TD-HSUPA Class 12 GPRS, EDGE
GNSS:	A-GPS GLONASS
<b>Environmental</b>	
Operating Temperature:	-20° to 60° C (-4° to 140° F)
Storage Temperature: <sup>1</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

- 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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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)
Free Fall Test:	IEC 60068-2-32, procedure 1, dropped 12 times from 1.2 meter IEC 60068-2-32, procedure 2, dropped 1000 times from 0.5 meters
<b>Ascom Myco Article Numbers</b>	
Ascom Myco 3 Cellular Wi-Fi	SH2-ACAA
Ascom Myco 3 Cellular Wi-Fi EU	SH2-ACBA
<b>Compliance with European Regulations and Standards</b>	
EU directives and regulations:	2014/53/EU (RED), 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: 129526
Radio:	EN 301908-1, EN 301908-2, EN 301908-13, EN 301511, EN300328, EN 301 893, EN303 413, EN300440, EN300330
SAR (Specific Absorption Rate):	EN50360 (close to ear) 0.227 W/kg (10 g) EN50566 (handheld/body mounted) 0.558 W/kg (10 g)
Safety:	EN 62368-1
EMC:	EN 301489-1, EN 301489-3, EN 301489-17, EN 301489-19, EN 301489-52, EN 55032, EN 55035
GCF certification:	GCF CC v.3.73.0
<b>Compliance with Australian and New Zealand Regulations and Standards</b>	
Product marking:	   BT QD: 129526
EMC/Radio:	AS/NZS 4268, EN 55032 AS/CA S042 FCC part 22
Audio:	AS/ACIF S004

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