

DATA SHEET



Ascom Myco 3 Wi-Fi and Cellular

Features

- Android™ 10¹
- Android™ Enterprise Recommended rugged device with Android security updates until December 2026
- Support for Ascom apps and third-party apps
- Ascom telephony over Wi-Fi, embedded in Android and with direct PBX integration
- Supports networks: GSM / 3G / LTE
- Google Mobile Services (Google apps and services)²
- Shared phone capability
- Professional barcode scanner supporting 1D, 2D, and Postal Codes
Barcode scanning preview (Viewfinder)
- Man-Down and No-Movement detection
- Location services: Ascom IR, BLE, and Wi-Fi with AiRISTA Flow
- Zone location with IR for Automated nurse presence
- Optimized for use in medical gloves
- Headset support
- Charging racks and desktop chargers
- PTT functionality using one of Ascom Myco 3 multifunction buttons or the BlueParrott Button™ 4

1. Android is a trademark of Google LLC.

2. Google and other related marks are trademarks of Google LLC.

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

4. BlueParrott Button is a trademark of GN Audio A/S.

Physical Design

- Durable and robust
- Easy replaceable battery to support long shifts
True hot-swappable battery
- IP67 dust and liquid resistant
- Configurable multifunction buttons, e.g personal alarm and barcode scanning
- Multi-color top LED
- Built-in carrying clip (removable)
- Disinfection-ready for daily cleaning
- Corning® Gorilla® Glass 3³

Network

- Supports Wi-Fi 802.11 a/b/g/n/ac
- Excellent voice quality with 802.11 k/r/v fast transition roaming

Administration

- Easy large scale deployment via Zero-touch, QR code, and NFC
- Managed configuration (OEMConfig app)
- Over-the-air administration via EMM (Enterprise Mobility Management)

Technical Specifications

Overview

Operating System:	Android™ 10
CPU:	2.3/1.8 GHz Octa-core
GPU:	3D Hardware accelerated graphics
Internal Memory:	64 GB Flash, 4 GB RAM
External Connections:	Micro USB v2.0 or higher (charging and data transfer/configuration) 3.5 mm headset jack
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: Chinese (simplified), 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

Specifications are subject to change without notice

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)
Audio	
Voice Quality:	Wideband audio, HD 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
Battery	
Type:	Main easily replaceable Li-ion 2935 mAh battery Built-in Li-ion 200 mAh battery for uninterrupted operation during swap of the main battery
System Stand-by Time:	Up to 140 hours
Speech Time:	Up to 22 hours
Charging Time ¹ :	Approx. 5 hours in CR7 Charging Rack and CR8 Battery Pack Charger Approx. 5 hours in DC5 Desktop Charger Up to 4 hours using Micro USB cable connected to a power outlet Up to 6.5 hours using Micro USB cable connected to a PC
Headset	
660515	Headset adapter with QD 3.5 mm
660508	Headset "mic on boom" with QD, BIZ 2400 II (requires adapter 660515)

1. Note that using bad cables and not following environmental conditions can prolong charging time.

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	Any Android compatible 3.5 mm headset
	Headset connector for Android compatible headsets, CTIA pinout
Accessories	
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
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
Bluetooth	
Supported Version:	4.1 with Bluetooth Low Energy (BLE)
Radio Spectrum:	ISM 2.4000 — 2.4835 GHz
Output Power:	Class 1, maximum 10dBm
BLE Beacon Protocols:	iBeacon
NFC	
Modes & Supported Standards:	<p>Read/write:</p> <ul style="list-style-type: none"> 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) <p>Peer-to-peer:</p> <ul style="list-style-type: none"> NFCIP-1 (ISO 18092) LLCP 1.1 SDP 1.0 NDEF Push Protocol SNEP 1.0 <p>Host Card Emulation</p>

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Supported Barcodes		
1D Symbologies:	UPC / EAN Bookland EAN UCC Coupon Code ISSN EAN Trioptic Code 39 Code 32 Composite Codes Codabar Inverse 1D Discrete 2 of 5	Code 93 Code 11 MSI GS1 DataBar Code 128 GS1-128 Code 39 Chinese 2 of 5 Korean 3 of 5
2D Symbologies:	PDF417 MicroPDF417 Maxicode Aztec QR Code MicroQR Composite TLC-39	Aztec Inverse Data Matrix Data Matrix Inverse QR Inverse Han Xin Inverse Han Xin
Postal Codes:	US Postnet UK Postal Japan Postal US Planet	Australian Postal Netherlands KIX Code USPS 4CB / One Code / Intelligent Mail UPU FICS Postal
Decode Ranges Examples:	Code 128 (barcode size 5 mil) (near 2.0 in / 5.1 cm; far 4.8 in / 12.2 cm) Code 39 (barcode size 5 mil) (near 1.7 in / 4.3 cm; far 5.8 in / 14.7 cm) PDF417 (barcode size 6.6 mil) (near 1.6 in / 4.1 cm; far 4.9 in / 12.4 cm) Data Matrix (barcode size 10 mil) (near 1.2 in / 3.0 cm; far 4.9 in / 12.4 cm) QR (barcode size 10 mil) (near 1.1 in / 2.8 cm; far 5.2 in / 13.2 cm) UPCA (barcode size 100%) (near 2.0 in / 5.1 cm; far 10.6 in / 26.9 cm) Code 39 (barcode size 20 mil) (near 2.1 in / 5.3 cm; far 13.6 in / 34.5 cm)	
Cellular		
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	

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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:	GPS, GLONASS, Beidou
Wi-Fi	
Supported Standards:	Wi-Fi 802.11 a/b/g/n/ac Wi-Fi 802.11 k/r/v fast transition roaming
Frequency Range:	EU (ETSI): b/g: 2.4–2.483 GHz (Ch 1-13) a: 5.15–5.35 GHz (Ch 36-64), 5.47–5.725 GHz (Ch 100-140) USA (FCC): b/g: 2.4–2.473 GHz (Ch 1–11) a: 5.15–5.35 GHz (Ch 36-64), 5.47–5.835 GHz (Ch 96-165) Canada (IC): b/g: 2.4–2.473 GHz (Ch 1–11) a: 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.
Maximum Output Power:	100 mW/20 dBm
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
Encryption Protocols:	TLS 1.1, 1.2, and 1.3 for Wi-Fi

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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 for excellent voice quality and uninterrupted app use for mobile workers
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
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
Connectivity:	WiFi, 3G, LTE
Ascom Infrared 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
Ascom Myco Article Numbers	
SH2-ACAA	Ascom Myco 3 Wi-Fi and Cellular
SH2-ACBA	Ascom Myco 3 Wi-Fi and Cellular EU
Environmental	
Operating Temperature:	-20° to 60° C (-4° to 140° F)
Storage Temperature ² :	-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

2. Note that storing Li-ion batteries at high temperature dramatically reduces their capacity. See the [Battery Storage and Maintenance Guidelines](#).

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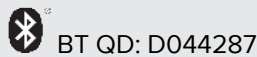
Disinfection Possibilities:	Daily up to five times with Ethanol 85%, VirkonS 1%, and also Isopropyl/ Isopropanol 85% Sporadic up to one time a week with Ethanol 85%, and also Chlorhexidin 0.5 mg/ml
Medical Gloves:	The device is verified for use in the following gloves: Nitrile gloves with the thickness of 0.05 mm Vinyl gloves with the thickness of 0.035 mm
Immunity to Electrostatic Discharge (ESD):	8 kV contact discharge and 15 kV air discharge (EN61000-4-2)
Free Fall Test ³ :	IEC 60068-2-31, procedure 1, dropped 12 times from 1.2 meters IEC 60068-2-31, procedure 2, dropped 1000 times from 0.5 meters
Drop Test (Shock test):	Multiple drops over a concrete block according to MIL-STD-810G

3. IEC 60068-2-31 supersedes IEC 60068-2-32 and requirements are equivalent in free fall test.

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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 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
 EN 60601-1

EMC:

EN 301489-1, EN 301489-3, EN 301489-17, EN 301489-19, EN 301489-52, EN 55032, EN 55035, EN 60601-1-2

GCF certification:

GCF CC v.3.74.0

Compliance with Australian and New Zealand Regulations and Standards

Product marking:



EMC/Radio:

AS/NZS 4268, EN 55032
 AS/CA S042
 FCC part 22

Audio:

AS/ACIF S004

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Safety:	AS/NZS 62368:2018
SAR (Specific Absorption Rate):	EN50360 (close to ear) 0.227 W/kg (10 g) EN50566 (handheld/body mounted) 0.558 W/kg (10 g) AS/NZS 2772.2 IEC 62479

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