

DATA SHEET



Ascom Myco™ 3 Wi-Fi and Cellular

Features

- Android™ 9 Pie¹
- Medical grade
- Supports third-party apps
- Ascom telephony over Wi-Fi, with direct PBX integration
- Supports networks: GSM/ 3G / LTE
- Google™ certification²
- Google™ Mobile Services - GMS (Google apps and services)
- Shared phone capability
- Professional barcode scanner supporting 1D, 2D and Postal Codes
- Location services (Ascom IR, Wi-Fi)
- NFC support
- Easy replaceable battery to support long shifts
True hot swap
- Optimized for use in medical gloves
- Headset support
- Charging racks and desktop chargers

Physical Design

- Durable and robust
- IP67 dust and liquid resistant
- Configurable Multifunction buttons, e.g personal alarm and bar code scanning
- Multi-color top LED
- Chemical resistant
- 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

- Over-the-air administration via MDM

1. Android is a trademark of Google LLC
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™ 9 Pie
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: Chinese (simplified), 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

Specifications are subject to change without notice

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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)
Audio	
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
Battery	
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)
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
	Headset connector for Android compatible headsets, CTIA pinout

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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. inc. Bluetooth Low Energy (BLE)
Radio Spectrum:	ISM 2.4000 — 2.4835 GHz
Output Power:	Class 1, maximum 10dBm
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, 5 (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

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Supported Barcodes

1D Symbolologies:	UPC / EAN	Code 93
	Bookland EAN	Code 11
	UCC Coupon Code	MSI
	ISSN EAN	GS1 DataBar
	Trioptic Code 39	Code 128
	Code 32	GS1-128
	Composite Codes	Code 39
	Codabar	Chinese 2 of 5
	Inverse 1D	Korean 3 of 5
2D Symbolologies:	PDF417	Aztec Inverse
	MicroPDF417	Data Matrix
	Maxicode	Data Matrix Inverse
	Aztec	QR Inverse
	QR Code	Han Xin Inverse
	MicroQR	Han Xin
Postal Codes:	US Postnet	Australian Postal
	UK Postal	Netherlands KIX Code
	Japan Postal	USPS 4CB / One Code / Intelligent Mail
	US Planet	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
Maximum output power:	GSM/GPRS/EGPRS (EDGE) Class 4
	UMTS: (CS) Class 3
	UMTS: (PS) Class 3
	HSPA: Class 3
	LTE: Class 3

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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
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 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
Maximum Output Power:	100 mW / 20 dBm

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SIP Telephony

Protocols:	SIP supporting RFC3550, RFC4566, RFC4733, RFC4734, RFC3261, RFC3264, RFC6665, and RFC3515
Voice Codecs:	G.711 A-law (EU), G.711 u-law (US), G.722, G.729

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

Ascom Myco 3 Cellular Wi-Fi	SH2-ACAA
Ascom Myco 3 Cellular Wi-Fi EU	SH2-ACBA

Environmental

Operating Temperature:	-20° to 60° C (-4° to 140° F)
Storage Temperature ¹ :	-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%, 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 ² :	IEC 60068-2-31, procedure 1, dropped 12 times from 1.2 meter 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



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Compliance with European Regulations and Standards

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: D044287
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:	  BT QD: D044287
EMC/Radio:	AS/NZS 4268, EN 55032 AS/CA S042 FCC part 22
Audio:	AS/ACIF S004
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

1. Note that storing Li-ion batteries at high temperature dramatically reduces their capacity. See the [Battery Storage and Maintenance Guidelines](#).
2. IEC 60068-2-31 supersedes IEC 60068-2-32 and requirements are equivalent in free fall test.

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