

DATA SHEET, Ascom Myco™ 3 Wi-Fi and Cellular

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

Specifications are subject to change without notice



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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

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

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