

# DATA SHEET QUECTEL BC68 WIRELESS MODULE

## KEY BENEFITS

Compact-sized multi-band NB-IoT module
Ultra-low power consumption
Super high sensitivity
LCC package makes it easy for large volume manufacturing
Compatible with Quectel GSM/GPRS module, easy for future upgrading
Embedded with abundant Internet service protocols
Fast time-to-market: Reference designs, evaluation tools and timely technical support; minimize design-in time and development efforts

## NETWORK

<b>3GPP Protocol Stack Compliancy</b>	Release 13
<b>Support for TS.34 IoT Communication Efficiency</b>	None (RPM available starting from firmware B300)
<b>Wireless Protocol Support</b>	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
<b>Frequency Band Support</b>	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	B1/B3/B8/B5/B20
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1 (100 kbps, 100 kbps)
<b>Short Message Service (SMS)</b>	Text, PDU mode
<b>Speech Codecs</b>	None
<b>Protocol Support</b>	CoAP, UDP, IPv4/6
<b>Firmware Updates</b>	UART
<b>Integrated Positioning Technology</b>	

GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

## HARDWARE

Dimensions (L x W x H, mm)	17.7mm × 15.8mm × 2.0mm
Weight (g)	1.1g±0.2g
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.1 - 4.2 (3.6 typical)
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	3 V
Module ON/Reset	Supported
ADC and I2C	None
4-Wire HS Serial Interfaces SCA1	None
Analog Audio	None
Digital Audio	None



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## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	19.10.2018 (BC68JAR01A07)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	<b>Limited certification</b> (GCF certification outstanding; resolution of chipset-specific issues necessary, as per technical report)
<b>Deutsche Telekom Affiliate Country Codes</b>	
AL	Telekom Albania
AT	T-Mobile Austria GmbH
CZ	T-Mobile Czech Republic a.s.
DE	Telekom Deutschland GmbH
GR	COSMOTE Mobile Telecommunications S.A.
HR	Hrvatski Telekom d.d.
HU	Magyar Telekom Telecommunications plc
ME	Comorgski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.B.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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