

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

NETWORK

3GPP Protocol Stack Compliance	Release 13
Support for TS.34 IoT Communication Efficiency	Radio Policy Manager (RPM)
Wireless Protocol Support	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	B1/B3/B8/B5/B20
3GPP Classes / Categories	
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
Short Message Service (SMS)	Text, PDU
Speech Codecs	None
Protocol Support	CoAP, UDP, IPv4/6
Firmware Updates	UART
Integrated Positioning Technology	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
Regulatory	

eCall	None
Standalone / Assisted GNSS	None
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	17.7 x 15.8 x 2.0
Weight (g)	1.1 ±0.2
Operating Temperature - Extended Operation (°C)	-40 to +85
Supply Voltage Range (V)	3.1 - 4.2 (3.6 typical)

Interfaces

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 ASC1	None
Serial Interfaces 1.8 V (including automatic baud rate detection)	None
Digital Audio, prepared for Analog Audio	None



LIFE IS FOR SHARING.

DATA SHEET QUECTEL BC68 WIRELESS MODULE

CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	19.03.2019 (BC68JAR01A08)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	ITS-IVA
DT Certification Type (Conditions)	Full
Deutsche Telekom Affiliate Country Codes	
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.



CONTACT

Deutsche Telekom AG
Friedrich-Ebert-Allee 140
53113 Bonn
iot-device-support@telekom.de



LIFE IS FOR SHARING.