

DATA SHEET QUECTEL BC95-B20 WIRELESS MODULE

KEY BENEFITS

High-performance NB-IoT module with ultra-low power consumption
Compact-sized LCC package makes it easy for large volume manufacturing
Compatible with Quectel GSM/GPRS module, easy for future upgrading
Multiple serial ports
Embedded with abundant Internet Service Protocols
Quectel enhanced AT commands
Extended temperature range: -40 °C to +85 °C

NETWORK

3GPP Protocol Stack Compliancy	Release 13
Support for TS.34 IoT Communication Efficiency	None
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)	800
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 (100 kbps, 100 kbps)
Short Message Service (SMS)	Text, PDU
Speech Codecs	None
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)	19.9 x 23.6 x 2.2
Weight (g)	1.8
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.1 - 4.2
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 SCA1	None
Analog Audio	None
Digital Audio	None



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	10.09.2018 (BC95B20HBR01A06W16)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Full certification (AZ, CZ, DE, HR, NL, PL, SK)
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.



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