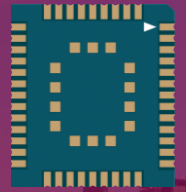# Quectel BC65

Compact NB-IoT Module with

Ultra-low Power Consumption

BC65-PB Release Notes

NB-IoT Module Series

Rev. BC65-PB_Firmware_Release_Notes_V0202_01.200.01.200

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Our aim is to provide customers with timely and comprehensive service. For any assistance, please contact our company headquarters:

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Or our local office. For more information, please visit:
http://www.quectel.com/support/sales.htm.

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http://www.quectel.com/support/technical.htm
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Contents

1. Release Content

This document provides the Release Notes for BC65-PB. The current release includes the following firmware package.

Package	Version
Firmware	BC65PBR02A02_01.200.01.200

2. Matters Needing Attention

SN	Item
/	/

3. Release History

3.1. Firmware Release History

Firmware Version	Description
BC65PBR02A02_01.200.01.200	Mass Production
BC65PBR02A02	Mass Production

3.2. New Features

BC65PBR02A02_01.200.01.200	
Item	**Brief Description**
NETWORK	Relevant technical controls have been carried out to restrict normal network registration in regions such as RUS and IRN, thus ensuring that the module can be used only for civilian applications.
GENERAL	Added **AT+CGSN=3** to query module SVN.
GENERAL	The new firmware version cannot be downgraded to previous versions, otherwise the module will not be able to work normally.
GENERAL	Added **AT+QUESTAT** to query UE status and report URC actively when the specific PLMN was disabled.
BC65PBR02A02	
Item	**Brief Description**
MQTT	Added feature of MQTTS.
MQTT	Extended **AT+QMTPUB** command to support data transmitting with JSON format.
GENERAL	Added feature of RF forced Tx/Rx in non-signaling mode.
GENERAL	Added **AT+QNBPOWERCLASS** command to configure the power class of radio in NB-IoT mode.
GENERAL	Added **AT+CGSN=2** command to query the IMEISV information of module.
NETWORK	Added **AT+QEMMESM** command to query the EMM/ESM cause code when module is rejected by MME.

HTTP	Added feature of HTTP and HTTPS.
TLS/DTLS	Added feature of TLS and DTLS.
COAP	Added feature of CoAP and CoAPS.

3.3. Improved Features

BC65PBR02A02_01.200.01.200	
Item	**Brief Description**
QuecOpen	Solved the problem that the URC of **CLOSE OK** would be missing with a certain probability in SDK.
QuecOpen	Solved the problem of small pulse during module initialization.
QuecOpen	Solved the problem that when you sent **AT+QRFTEST=1** over RIL, the QuecOpen feature did not run after the module was rebooted.
GENERAL	Solved the problem of abnormal power consumption under DRX.

BC65PBR02A02	
Item	**Brief Description**
NETWORK	Enable the roaming mechanism in default.
NETWORK	Fixed the bug that the configuration of default EPS bearer in flight mode via **AT+QCGDEFCONT** command cannot take effect after CFUN mode switch to 1.
NETWORK	Fixed the bug that the queried RSRP value probability indicates -141dbm via **AT+QENG=0** command after module exited deep sleep mode and back to RRC connected mode.
NTP	Fixed the bug that the wrong URC result is returned when using **AT+QNTP** command to synchronization network time in dedicated time period(00:00:00-08:00:00)

3.4. Known Issues

Item	Bug Description
/	/

NOTE

Verification Environment is shown below. For more details, please contact Quectel technical support.
For Windows.
Qflash Tool: QFlash_V5.9_EN

4. Functions List

Category	Item	Supported Version (Since)	Note
Basic Function	FILE	BC65PBR02A02	Supports RAM/UFS FILE only
Protocol Function	TCP/UDP	BC65PBR02A02	/
	DTLS/TLS	BC65PBR02A02	/
	MQTT	BC65PBR02A02	/
	MQTTS	BC65PBR02A02	/
	COAP	BC65PBR02A02	/
	COAPS	BC65PBR02A02	/
	HTTP	BC65PBR02A02	/
	HTTPS	BC65PBR02A02	/
	NONIP	BC65PBR02A02	/
	PPP	BC65PBR02A02	/
	PING	BC65PBR02A02	/
	NTP	BC65PBR02A02	/
	NITZ	BC65PBR02A02	/
Special Function	DFOTA	BC65PBR02A02	Supports DFOTA over HTTP only
	PSM	BC65PBR02A02	/

About Quectel

Quectel Wireless Solutions is the leading global supplier of cellular and GNSS modules, with a broad product portfolio covering the most recent wireless technologies of 5G, LTE/LTE-A, NB-IoT/LTE-M, UMTS/HSPA(+), GSM/GPRS and GNSS. As a professional IoT (Internet of Things) technology developer and cellular module supplier, Quectel is able to provide one-stop services for IoT cellular modules. Quectel products have been widely applied in IoT/M2M fields including smart payment, telematics and transport, smart energy, smart cities, security, wireless gateways, industry, healthcare, agriculture, and environment monitoring.