

BC95-G Release Notes

NB-IoT Module Series

Rev. BC95-G-JB_Firmware_Release_Notes_V0203

Date: 2020-08-10



1. Preamble

This document provides the Release Notes for BC95-G firmware version **BC95GJBR02A03**. It describes major changes compared to BC95-G firmware version **BC95GJBR02A02**. For a detailed listing of all changes, refer to the BC95-G AT Command Set.

2. Matters Needing Attention

SN	Brief Description
1	The feature of LwM2M self-cure is turned off by default.

3. New Features

Item /Category	Brief Description	Since
NETWORK	Supported secure PCO function.	R02A01
NETWORK	Supported T3396 timer process.	R02A01
NETWORK	Added AT+CGEQOS/CGCMOD commands to implement for user plane.	R02A01
NONIP	Added AT+NSNPD/NRNPDM/NQPND commands for Non-IP sending and receiving data through UP or CP.	R02A01
GENERAL	Added AT+CCIOTOPT command to configure CIoT optimization.	R02A01
NETWORK	Supported TWO HARQ.	R02A01
NETWORK	Supported RRC CONNECTION SUSPEND/RESUME procedure.	R02A01
GENERAL	Supported user plane of NB-IoT.	R02A01
NETWORK	Added AT+NSOSTATUS/NCIDSTATUS commands to get the socket and PDN status and back-off time.	R02A01
NETWORK	Add AT+NGACTR command to report activate and deactivate PDP context result.	R02A01
NETWORK	Supported to attach in NON-IP PDN without SMS.	R02A01
GENERAL	Added AT+CSIM/CRSM/CCHO/CCHC/CGLA commands for UICC logical channel.	R02A01
GENERAL	Supported baud rate 2400/921600.	R02A01

SMS	Added the SMS switch to AT+NCONFIG command.	R02A01
SMS	Supported multiple concatenated SMS.	R02A01
NETWORK	Supported OTDOA and ECID positioning technology.	R02A02
NETWORK	Supported Category NB2.	R02A02
NETWORK	Supported Power Class 6.	R02A02
NETWORK	Supported non-anchor carriers.	R02A02
NETWORK	Supported Rel-14 RRC release assistance indication (RAI).	R02A02
NETWORK	Added AT+NCIDSTATUS command to query back-off state when back-off timer is running.	R02A02
NETWORK	Supported multi NON-IP PDN.	R02A02
GENERAL	Supported to power down UICC in PSM mode when SIM PIN is enabled.	R02A02
GENERAL	Added AT+QTCPIND command to control whether the URC is reported when the TCP connection is made.	R02A02
LwM2M	Supported instance 19/1 for LwM2M.	R02A02
LwM2M	Added AT+QCFG="LWM2M/EndpointName" command to configure the Endpoint Name of LwM2M.	R02A02
LwM2M	Added AT+QCFG="LWM2M/BindingMode" command to configure Binding Mode of LwM2M.	R02A02
LwM2M	Added AT+QLWEVTIND command to set whether +QLWEVTIND URC is output. +QLWEVTIND URC prompt is enabled by default.	R02A02
NETWORK	Added the HPLMN background search switch option to the AT+NCONFIG command. The configuration is saved and takes effect after reboot.	R02A02
GENERAL	Added AT+QDNS=2,<hostname> command to allow send DNS request immediately without using history records.	R02A02
GENERAL	Added error codes 533 ~ 537.	R02A02
LWM2M	Added AT+QCFG="LWM2M/PNP" command to configure LwM2M self-cure feature mode, the feature is turned off by default.	R02A03
UDP	Added AT+NSOSTEX/NSOSTFEX commands to support sending UDP data in data mode.	R02A03
TCP	Added AT+NSOSDEX command to support sending TCP data in data mode.	R02A03

4. Improved Features

Item/Category	Brief Description	Since
NETWORK	Updated background search to correctly identify and use cells with different raster offsets.	R02A01
NETWOEK	Updated the unit of SIB16 synchronization cycle from hour to minute.	R02A01
PSM	Fixed the bug that AT+NPSMR report the wrong PSM state during RRC cell selecting after exit PSM.	R02A01
MQTT	Fixed the bug that the data output was abnormal when special characters were received.	R02A01
CoAP	Improved the AT+QCOAPSEND command to allow data to be sent in hex string format.	R02A01
CoAP	Improved the mechanism for frequently creating CoAP communication.	R02A01
LwM2M	Modified the default Lifetime to 0.	R02A02
GENERAL	Fixed the bug that domain names that begin with a number cannot be parsed correctly.	R02A02
GENERAL	Improved the AT+QDNS command to allow configure the max retry count and the value of timeout.	R02A02
NETWOEK	Modified the RLF_UPDATE parameter in the AT+NCONFIG command to TRUE by default.	R02A02
LwM2M	Fixed the problem that remote setting of Lifetime could not take effect in time.	R02A02
LwM2M	Fixed the problem of receiving an empty message from the non-registered platform's downlink data reply.	R02A02

5. Known Issues

Item/Category	Brief Description
NETWORK	The 320-hour extended TAU period is not supported.

6. Functions

Basic Function

SMS

Y

Special Function

NITZ	PING	CoAP	NONIP	TCP/UDP	MQTT	LwM2M
Y	Y	Y	Y	Y	Y	Y

Special Function

DFOTA	PSM
Y	Y

NOTES

1. Y means the firmware supports this function.
2. N means the firmware does not support this function.