

BC95-G Release Notes

NB-IoT Module Series

Rev. BC95-G-JB_LGU_Firmware_Release_Notes_V0203

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1. Preamble

This document provides the Release Notes for BC95-G firmware version **BC95GJBR02A03_LGU**. It describes major changes compared to BC95-G firmware version **BC95GJBR02A02_LGU**. For a detailed listing of all changes, refer to the BC95-G AT Command Set.

2. Matters Needing Attention

SN	Brief Description
1	The lifetime function of lwm2m is turned off by default. If need to use the lifetime feature, please use AT command to turn it on.
2	The feature of LwM2M self-cure is turned off by default.

3. New Features

Item /Category	Brief Description	Since
NETWORK	Supported TWO HARQ.	R02A02
NETWORK	Supported RRC CONNECTION SUSPEND/RESUME procedure.	R02A02
NETWORK	Supported user plane of NB-IoT.	R02A02
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	Supported secure PCO function.	R02A02
NETWORK	Supported T3396 timer process.	R02A02
NETWORK	Added AT+CGEQOS/CGCMOD commands to implement for user plane.	R02A02
NETWORK	Supported multi NON-IP PDN.	R02A02
NETWORK	Added AT+NSOSTATUS/NCIDSTATUS commands to get the socket and PDN status and back-off time.	R02A02

NETWORK	Add AT+NGACTR command to report activate and deactivate PDP context result.	R02A02
NETWORK	Supported to attach in NON-IP PDN without SMS.	R02A02
NONIP	Added AT+NSNPD/NRNPDM/NQPNPD commands for Non-IP sending and receiving data through UP or CP	R02A02
SMS	Added the SMS switch to AT+NCONFIG command.	R02A02
SMS	Supported multiple concatenated SMS.	R02A02
TCP	Added AT+QTCPIND command to control whether the URC is reported when the TCP connection is made.	R02A02
GENERAL	Added AT+CCIOPT command to configure CIoT optimization.	R02A02
GENERAL	Added AT+CSIM/CRSM/CCHO/CCHC/CGLA commands for UICC logical channel.	R02A02
GENERAL	Supported baud rate 2400/921600.	R02A02
LwM2M	Added AT+QCFG="LWM2M/PNP" command to configure LwM2M self-cure feature mode, the feature is turned off by default.	R02A03

4. Improved Features

Item/Category	Brief Description	Since
NETWORK	Updated background search to correctly identify and use cells with different raster offsets.	R02A02
NETWOEK	Updated the unit of SIB16 synchronization cycle from hour to minute.	R02A02
PSM	Fixed the bug that AT+NPSMR report the wrong PSM state during RRC cell selecting after exit PSM.	R02A02
GENERAL	Fixed the bug that domain names that begin with a number cannot be parsed correctly.	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
LwM2M	Modified the default Lifetime to 0.	R02A02
GENERAL	Improved the AT+QDNS command to allow configure the max retry times and the value of timeout.	R02A02
LwM2M	Fixed the problem that module does not trigger the bootstrap process under abnormal conditions.	R02A03

5. Known Issues

Item/Category	Brief Description
CoAP	The CoAP function is not stable and exists occasionally crashes.
NETWORK	The 320-hour extended TAU period is not supported.

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6. Functions

Basic Function

SMS

Y

Protocol 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.