

BG96 Release Notes

LTE Module Series

Rev. BG96 Firmware_Release_Notes_V0207.01.009.01.009

Date: 2018-11-19



1. Preamble

This document provides the Release Notes for BG96 firmware version **BG96MAR02A07M1G_01.009.01.009**. It describes major changes compared to BG96 firmware version **BG96MAR02A07M1G_01.008.01.008**. All changes are on the APP side, and do not affect protocols of the Modem. We maintain the A07 version number unchanged. Do upgrade on the APP side. For a detailed listing of all changes, please refer to the BG96 AT Command Set.

Before:

ATI

Quectel

BG96

Revision: BG96MAR02A07M1G

After:

ATI

Quectel

BG96

Revision: BG96MAR02A07M1G

AT+QGMR

BG96MAR02A07M1G_01.009.01.009 //Added new AT to query the full version information;

AT+QAPPVER

+QAPPVER: 01.009.01.009 //Added new AT to query the application version information;

2. New Features

2.1 New Features of Modem Protocol

No update.

2.2 New Features of Modem APP

Item /Category	Brief description	Since
GENERAL	Added AT Command AT+QGMR to query the full version information, including the protocol version number and application version number of modem.	R02A07_01.007.01.007
GENERAL	Added AT Command AT+QCFG="airplanecontrol" to enable/disable airplane mode.	R02A07_01.007.01.007

GENERAL	Added AT Command AT+QCFG="gpio" for configuration of some GPIOs.	R02A07_01.007.01.007
LwM2M	Added AT Command AT+QLWM2M="psk" to enable automatic generation of PSK data.	R02A07_01.007.01.007
GENERAL	Added USB suspend function.	R02A07_01.007.01.007
GENERAL	Added AT Command AT+QICFG="recvind" to control whether to append the received data length in the URC.	R02A07_01.008.01.008
GENERAL	Added AT Command AT+QCFG="simeffect" .	R02A07_01.008.01.008
GENERAL	Added AT Command AT+CSIM .	R02A07_01.008.01.008
GENERAL	Added AT Command AT+QAPPVER .	R02A07_01.008.01.008
GENERAL	Added AT Command AT+QCFGEXT="fota_apn" to set APN for FOTA thread.	R02A07_01.009.01.009
GENERAL	Fix the bug that wrong order of power down URCs reporting when module power off.	R02A07_01.009.01.009
CMUX	Fixed the bug that CMUX works abnormally when set the CMUX frame size over 127.	R02A07_01.009.01.009
GENERAL	Added AT Command AT+QCFGEXT="disusb" to enable/disable USB port function.	R02A07_01.009.01.009
GENERAL	Added URC " APP RDY " for prompt ATFWD command ready.	R02A07_01.009.01.009
SSL	Add AT Command AT+QSSLCFG="sni" to support SNI feature.	R02A07_01.009.01.009

3. Improved Features

3.1 Improved Features of Modem Protocol

No update.

3.2 Improved Features of Modem APP

Item/Category	Brief description	Since
MQTT	Optimized AT+QMTPUB to enable specifying the load length.	R02A07_01.007.01.007
GENERAL	Fixed the bug that DTR pin has no internal pull up when module powers on.	R02A07_01.007.01.007

GENERAL	Fixed the bug that DCD pin cannot be controlled by AT&C command.	R02A07_01.0 07.01.007
MQTT	Fixed the bug that data transmission sometime fails when sending data with a long time interval.	R02A07_01.0 07.01.007
GENERAL	Optimized the file system performance.	R02A07_01.0 07.01.007
GENERAL	Optimized AT+QCFGEXT="nipdr" to support display the returned data in hexadecimal format.	R02A07_01.0 08.01.008
GENERAL	Optimized AT+QLWM2M commands.	R02A07_01.0 08.01.008
GENERAL	Fixed the bug that incorrect format when execute AT+QPSMCFG=?/AT+QPSMEXTCFG=? .	R02A07_01.0 08.01.008
TCP/IP	Fixed the bug that TCP handshake failed when set TCP window scale option with 14.	R02A07_01.0 08.01.008
LwM2M	Fixed the bug that reporting firmware version number includes compiling timestamp when client connects to server.	R02A07_01.0 09.01.009
LwM2M	Fixed the bug that reporting Error#506 when module starts FOTA progress.	R02A07_01.0 09.01.009
LwM2M	Add URCs for prompt DFOTA package download start and completely of In-Band.	R02A07_01.0 09.01.009
LwM2M	Fixed the bug that in case of server has an invalid/mismatch DFOTA package, LwM2M client cannot perform the firmware package download when execute motive case#11.01 repeatedly.	R02A07_01.0 09.01.009
FILE	Fixed the bug that cannot use "+++" exit from data mode when downloading file over 1MB from module.	R02A07_01.0 09.01.009
GENERAL	Fixed the bug that incorrect response returned when execute AT+QENG="servingcell" .	R02A07_01.0 09.01.009
GENERAL	Fixed the bug that AT+CFUN=1,1 cannot be executed after set module enter into FTM mode.	R02A07_01.0 07.01.007
CMUX	Fixed the bug that CMUX works abnormally when set the CMUX frame size over 127.	R02A07_01.0 09.01.009

4. Functions

Basic Function								
SMS	Voice Call	Data Call	Fax	USSD	PHB	STK	CMUX	Dual UART
Y	N	N	N	Y	N	N	Y	N
FILE ¹⁾	Triple UART							
Y	N							
Protocol Function								
TCP/UDP	PPP	FTP	HTTP	NITZ	PING	HTTPS	TCP SSL	FTPS ²⁾
Y	Y	Y	Y	Y	Y	Y	Y	Y
MQTT								
Y								
Special Function								
GNSS	PSM	DFOTA						
Y	Y	Y						

NOTES

1. Y means the firmware supports this function.
2. N means the firmware does not support this function.
3. ¹⁾ Supports UFS FILE only.
4. ²⁾ Supports FTPS-Implicit SSL only.