EG25-G-GB Release Notes

LTE Standard Module Series

Rev. EG25-G-GB_Firmware_Release_Notes_V0708_30.006.30.006

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1. Preamble

This document provides the Release Notes for EG25-G-GB firmware version **EG25GGBR07A08M2G_30.006.30.006**. It describes major changes compared to for EG25-G-GB firmware version **EG25GGBR07A08M2G_30.005.30.005**.

2. Matters Needing Attention

SN	Brief Description
[1]	Multiple PDN is not supported by MBIM.
[2]	In AP mode, due to memory limitations, WIFI supports 10 clients at most.

3. New Features

Item/Category	Brief Description	Since
GENERAL	Supported T-Mobile SIM card (311-882).	R07A08_30.005.30.005
GENERAL	Supported ES8311 codec driver.	R07A08_30.005.30.005
NETWORK	1. Extended the **AT+QOPSCFG="displaybw"** command to control whether **AT+QOPS** displays the bandwidth under LTE. 2. Extended the **AT+QOPS** command to support displaying bandwidth under LTE.	R07A08_30.004.30.004
TCP/UDP	Added the AT command **AT+QCFG="TCP/SendMode"** to configure TCP sending mode.	R07A08_30.004.30.004
WIFI	Added URC +QWIFIAUTHFAIL to report a device(STA) fails to connect to the module (configured as AP) for authorization failure.	R07A08_30.004.30.004
AUDIO	Extended the AT command **AT+QCFG="tone/incoming"** to support playing the specified ringtone when a call came in.	R07A08_30.003.30.003
DFOTA	Added AT command **AT+QFOTADL=<url>,"down_to_ufs",<local_file_name>[,<usrname>,<password>]** to download the FTP file to local UFS directory.	R07A08_30.003.30.003
MMS	Added AT command **AT+QCFG="mms_rec_control"** to control whether to save the received MMS.	R07A08_30.003.30.003
MQTT	Added AT command **AT+QMTCFG="protocol/check"** to configure	R07A08_30.0

	whether to check MQTT header information.	03.30.003
NETWORK	Added AT command **AT+QCFG="cops_control"** to control **AT+COPS** to scan band, not affecting the band scan of **AT+QCFG="nwscanmodeex"**.	R07A08_30.0 03.30.003
QuecThing	Supported QuecThing.	R07A08_30.0 03.30.003
SMS	Extended AT command **AT+QCFG="ltesms/format"** to send SMS in 3GPP2 format only and receive SMS in 3GPP2 and 3GPP format at the same time.	R07A08_30.0 03.30.003
UAC	Supported 16K sampling rate by UAC.	R07A08_30.0 03.30.003
Voice Call	Added DSCI report in emergency call.	R07A08_30.0 03.30.003
WIFI	Supported LTE and WIFI coexistence mechanism.	R07A08_30.0 03.30.003
GENERAL	Supported Optus MBN.	R07A08_30.0 03.30.003
GENERAL	Extended AT command **AT+QCFG="cmux/urcport"** to support turning off CMUX port to report URC.	R07A08_30.0 03.30.003
GENERAL	Supported outputting $PQXMI NMEA sentences, and not outputting $PQXMI sentences by default.	R07A08_30.0 03.30.003
GENERAL	Added **AT+QCFG="usbauto"** command to control USB network card to automatically adapt to Windows, Linux, macOS without a driver.	R07A08_30.0 03.30.003
GENERAL	Added AT command **AT+QFORMATUSRDATA** to format usrdata ubi.	R07A08_30.0 03.30.003
GENERAL	Added AT command **AT+QCFG="secbootstat"** to get whether the secboot is enabled.	R07A08_30.0 03.30.003
GENERAL	Added AT command **AT+QGPSPAI** to obtain GNSS positioning assistance information.	R07A08_30.0 03.30.003
GENERAL	Supported Hong Kong Telecom SIM card, with ICCID 8985231 and PLMN 45431.	R07A08_30.0 03.30.003
GENERAL	Supported STC MBN.	R07A08_30.0 03.30.003
GENERAL	Added **AT+QCFG="enable_GEA1"** to enable GPRS Encryption algorithm GEA/1.	R07A08_30.0 03.30.003
GENERAL	Supported Rogers MBN.	R07A08_30.0 03.30.003
GENERAL	Added **AT+QCFG="lanip"** to modify the range of LAN IP.	R07A08_30.0 03.30.003
GENERAL	Supported LGU MBN.	R07A08_01.0 03.01.003

GENERAL	Supported RPM configuration for DT MBN.	R07A08_01.0 03.01.003
GENERAL	Added **AT+QGSN** to get module GSN number and **AT+QIMI** to get IMEI number.	R07A08_01.0 03.01.003
DTMF	Added AT command **AT+QWDTMF** to play DTMF files or send it to Far-end.	R07A08_01.0 03.01.003
GENERAL	Supported SKT MBN with version 202007071。	R07A08_01.0 03.01.003
GENERAL	Optimized Telstra MBN related configuration.	R07A08_01.0 03.01.003
QuecLocator2.0	Added AT command **AT+QLBSCFG="contextid"** to configure the QuecLocator context ID.	R07A08_01.0 03.01.003
GENERAL	Supported USCC MBN.	R07A08_01.0 03.01.003
DFOTA	Added HTTP DFOTA to parse URL with type of http://user:password@wwww.baidu.com.	R07A08_01.0 02.01.002
GENERAL	Added AT command **AT+QCFG="fast/poweroff"** to enable/disable fast power off function.	R07A08_01.0 02.01.002
NETWORK	Added AT command **AT+QCFG="qoos"** to optimize network search power consumption in sleep mode.	R07A08_01.0 02.01.002
SMS	Added **AT+QCFG="sms_control"** to control SMS sending and reception.	R07A08_01.0 02.01.002
Voice Call	Added **AT+QCFG="call_control"** command to control voice MO and MT functions.	R07A08_01.0 02.01.002
TCP SSL	Added AT command **AT+QSSLRECV** to read the remaining data.	R07A08_01.0 02.01.002
GENERAL	Supported to report URC to MCU when thermal mitigate level was up to 3.	R07A08_01.0 02.01.002
NETWORK	Added AT command **AT+QEGPAPN** to query the actual APN and the configured APN.	R07A08_01.0 02.01.002
QuecLocator 2.0	Added AT command **AT+QLBSEX** to enter the cell parameter for positioning.	R07A08_01.0 02.01.002
MBIM	Added MBIM function.	R07A08_01.0 02.01.002
NETWORK	Added the function of preferential registration to the network for the specified LTE band.	R07A08_01.0 02.01.002
GENERAL	Imported domestic operators.	R07A08_01.0 02.01.002
NETWORK	Added jamming detection function.	R07A08_01.0 02.01.002
Voice Call	Added AT command **AT+QCFG="voice_busytone"** to enable/disable busytone playback.	R07A08_01.0 02.01.002
GENERAL	Added class 6 APN for Verizon。	R07A08_01.0

		02.01.002
TCP SSL	Added AT command **AT+QSSLCFG="alpn"** to set SSL alpn.	R07A08_01.0 02.01.002
GENERAL	Added AT command **AT+QCFG="wakeupin/level"** Set the wake-up pin level and whether to enable the wake-up function.	R07A08_01.0 02.01.002
TCP SSL	Added **AT+QSSLCFG="session_cache"** command to optimize TCP SSL connection.	R07A08_01.0 02.01.002
AUDIO	Supported recording and playing audio in AMR format.	R07A08_01.0 02.01.002
GENERAL	Added AT command **AT+QOPS** to scan band.	R07A08_01.0 02.01.002
SIMCARD	Added AT command **AT+QSIMCHK** to send UIM_AUTHENTICATE_REQ (UIM authentication).	R07A08_01.0 02.01.002
SIMCARD	Added AT commands **AT+QSIMWRFREQ** to record the frequency of EF files written to SIM card and **AT+QSIMVOL** to configure SIM card supply voltage.	R07A08_01.0 02.01.002
NETWORK	Added AT commands **AT+QOPSCFG="scancontrol"** to configure bands to be scanned under 2G/3G/4G and **AT+QOPSCFG="displayrssi"** to enable/disable to display RSSI under LTE.	R07A08_01.0 02.01.002
FILE	Added File SFS funciton.	R07A08_01.0 02.01.002
TCP/UDP	Added AT command **AT+QICFG="tcp/keepalive"** to configure whether to enable TCP keepalive function.	R07A08_01.0 02.01.002
GENERAL	Added Bluetooth function (SPP, BLE, HFG) and AT command **AT+QCFG="spi/set"** to write a mark in rawdata to control the initialization of SPI6/UART6.	R07A08_01.0 02.01.002
WIFI	Added AT command **AT+QWIFICFG="bridgemode"** to support WIFI dongle function.	R07A08_01.0 02.01.002
WIFI	Added **AT+QWIFICFG="dongle_mac"** to get the MAC address connecting to the ECM/RNDIS device.	R07A08_01.0 02.01.002
GENERAL	Supported using **AT+CSCS** command with no SIM card inserted.	R07A08_01.0 02.01.002
QuecLocator2.0	Added AT command **AT+QLBSCFG="latOrder"**.	R07A08_01.0 01.01.001
GENERAL	Added AT command **AT+QMBNCFG="list"**.	R07A08_01.0 01.01.001
TCP/UDP	Added AT command **AT+QCFG="tcp/windowsize"**.	R07A08_01.0 01.01.001
PPP	Added AT command **AT+QCFG="ppp/sleep_ri"**.	R07A08_01.0 01.01.001
GENERAL	Added AT command **AT+QCFG="iprulectl"**.	R07A08_01.0 01.01.001
GENERAL	Added TF_Spain_VoLTE and TF_Germany_VoLTE MBN.	R07A08_01.0 01.01.001

NETWORK	Added AT command **AT+QGPAPN**.	R07A08_01.0 01.01.001
WIFI	Added AT command **AT+QWIFICFG="version"**.	R07A08_01.0 01.01.001
NETWORK	Added AT command **AT+QRRCCONSTATE**.	R07A08_01.0 01.01.001
NETWORK	Added AT command **AT+QICSGPEH**.	R07A08_01.0 01.01.001
GENERAL	Supported to report all URC via command **AT+QURCCFG="urcport","all"**.	R07A08_01.0 01.01.001
DTMF	Added AT command **AT+QVTS**.	R07A08_01.0 01.01.001
PPP	Added AT command **AT+QCFG="ppp/v4v6"**.	R07A08_01.0 01.01.001
NETWORK	Added AT command **AT+QDISABLERETRY**.	R07A08_01.0 01.01.001
TCP SSL	Added command of **AT+QSSLSEND=0,0** to query the cache status of the **AT+QSSLSEND**.	R07A07_01.0 02.01.002
GENERAL	Added AT command **AT+QCFG="bip/auth"**.	R07A07_01.0 02.01.002
GENERAL	Supported socket data forward and added related AT commands: **AT+QFWDCLIENT**, **AT+QFWDSERVER**, **AT+QFWDCLOSE**, **AT+QFWDSEND**, **AT+QFWDRECV**.	R07A07_01.0 02.01.002
AUDIO	Added UAC function.	R07A07_01.0 02.01.002
GENERAL	Added TUNER function.	R07A07_01.0 02.01.002
GENERAL	Added Commercial-DT MBN.	R07A07_01.0 02.01.002
NETWORK	Added AT command **AT+QCFG="fast_dormancy"**.	R07A07_01.0 02.01.002
GENERAL	Added AT command **AT+CCHO**, **AT+CCHC** and **AT+CGLA**.	R07A07_01.0 02.01.002
GENERAL	Added URC for fumo pkg checking.	R07A07_01.0 02.01.002
HTTP	Added the following AT commands: **AT+QHTTPSEND**, **AT+QHTTPCFGEX**, **AT+QHTTPPUT** and **AT+QHTTPPUTFILE**.	R07A07_01.0 02.01.002
GENERAL	Added Reliance MBN.	R07A07_01.0 02.01.002
Voice Call	Added AT commands **AT+QIMSACT**, **AT+QDIAL**,	R07A07_01.0 01.01.001

	AT+QCHLDIPMPTY.	
Voice Call	Added AT command **AT+QECBM** only for Verizon.	R07A07_01.0 01.01.001
AUDIO	Added AT command **AT+QAUDCFG="nau8810/config"**.	R07A05_01.0 01.01.001
AUDIO	Optimized AT command **AT+QAUDCFG="encgain"**.	R07A04_01.0 01.01.001

4. Improved Features

Item/Category	Brief Description	Since
DFOTA	Solved the problem that error code 502 was reported during DFOTA upgrade.	R07A08_30.0 06.30.006
TCP SSL	Solved the problem of no RI pin pulling when data reported in SSL client transparent transmission mode.	R07A08_30.0 06.30.006
WIFI	Updated WIFI firmware.	R07A08_30.0 06.30.006
GENERAL	Optimized the dual serial port function to solve the problem of abnormal serial communication when AT commands is used for large data transmission.	R07A08_30.0 06.30.006
GENERAL	Solved the problem of CVE-2021-31698.	R07A08_30.0 06.30.006
GENERAL	Set voice centric for Verizon MBN.	R07A08_30.0 06.30.006
GENERAL	Modified the attach APN to telstra.internet for Telstra operator.	R07A08_30.0 06.30.006
GENERAL	Set the ROW MBN profile1 to null and profile3 APN name to sos apn name.	R07A08_30.0 06.30.006
DFOTA	Solved the problem of error code 701 returned in URC after DFOTA HTTPS download failure.	R07A08_30.0 05.30.005
GENERAL	Fixed CVE-2021-31698.	R07A08_30.0 05.30.005
GENERAL	Integrated Verizon SUPL Certificates in Verizon MBN.	R07A08_30.0 05.30.005
GENERAL	Removed the configuration of default MTU 1430 in DCM MBN.	R07A08_30.0 05.30.005
GENERAL	Solved the problem that AT commands may be blocked due to powering on and off the module repeatedly.	R07A08_30.0 04.30.004
GENERAL	Solved the problem that **AT+QDAI** failed to set long and short frames.	R07A08_30.0 04.30.004

GENERAL	Solved the problem that **AT+QCFG="qcautoconnect"** could not enable the automatic connection in ECM or RNDIS mode.	R07A08_30.0 04.30.004
GENERAL	Solved the problem that after switching **AT+CFUN=0** and **AT+CFUN=1**, the APN type of "attm2mglobal" was changed from IPV4V6 to IPV4 after ATT was activated and the module registered to the network successfully.	R07A08_30.0 04.30.004
AUDIO	Solved the problem that the following commands returned ERROR and CME ERROR at the same time: 1. **AT+QAUDRD** 2. **AT+QAUDPLAY** 3. **AT+QPSND** 4. **AT+QWTTS** 5. **AT+QLDTMF**	R07A08_30.0 03.30.003
AUDIO	Solved the problem that the ACDB file imported by **AT+QACDBLOAD** could not take effect.	R07A08_30.0 03.30.003
AUDIO	Solved the problem the audio recording could not work normally after **AT+QMIC** set gain of MIC.	R07A08_30.0 03.30.003
DFOTA	Supported using the fixed baud rate set before the upgrade during DFOTA upgrade.	R07A08_30.0 03.30.003
DFOTA	Solved the problem that the module could not report the DFOTA upgrade result to the Verizon server after the OMA-DM DFOTA upgrade ended.	R07A08_30.0 03.30.003
FTP	Solved the problem of timeout error (error code 609 returned) when executing **AT+QFTPOPEN** to log in to the FTP(S) server.	R07A08_30.0 03.30.003
HTTP	Solved the problem that the module automatically rebooted when **AT+QHTTPPOSTFILE** sends a POST request to HTTP(S) server through a file larger than 1M.	R07A08_30.0 03.30.003
MQTT	Solved the problem that the MQTT disconnected when receiving the message with QoS level 2 subscribed successfully.	R07A08_30.0 03.30.003
MQTT	Solved the problem that when **AT+QIDEACT** was executed immediately after **AT+QMTOPEN** execution for the first time, +QMTSTAT: 0,2 was reported continuously after **AT+QMTOPEN** execution again.	R07A08_30.0 03.30.003
MQTT	Solved the problem of failure to connect to some servers caused by the inability to enable MQTT SNI.	R07A08_30.0 03.30.003
NETWORK	Change the range of SINR value returned by **AT+QENG="SERVINGCELL"** from (0~250) to (-20~30).	R07A08_30.0 03.30.003
PPP	Solved the problem that AT port may not work normally after executing **AT+CGACT=1,1** to activate the first PDP context which has been activated by default again.	R07A08_30.0 03.30.003
Voice Call	Solved the problem that there may be no busy tone displayed when the call was hung up after enabling busy tone playing via **AT+QCFG="voice_busytone"**.	R07A08_30.0 03.30.003

WIFI	Solved the problem that without SIM card, ECM could not work normally while FC20 was in the WIFI STA mode.	R07A08_30.0 03.30.003
WIFI	Solved the problem that after setting **AT+QWSSIDHEX=1**, rebooting the module, 0 was always returned by **AT+QWSSIDHEX?**.	R07A08_30.0 03.30.003
WIFI	Solved the problem that WIFI could not work normally after WIFI SSID was set via **AT+QWIFICFG="ssid"**.	R07A08_30.0 03.30.003
WIFI	Solved the problem that IPv6 information could not be returned by **AT+QWIFICFG="stainfo"**.	R07A08_30.0 03.30.003
GENERAL	Updated LGU MBN version to 202103101.	R07A08_30.0 03.30.003
GENERAL	Fixed the problem that Telus VoLTE could not make VoLTE Call.	R07A08_30.0 03.30.003
GENERAL	Changed the MCFG_version version of USCC MBN from 0x05040D2 to 0x0504FC40.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that ACDB files could not be obtained by **AT+QACDBLOAD?**.	R07A08_30.0 03.30.003
GENERAL	Changed KDDI configurations below: The first APN to au.au-net.ne.jp, user name to user@au.au-net.ne.jp, password to au, and authentication type to CHAP.	R07A08_30.0 03.30.003
GENERAL	For TMO, modified the voipMinSessionExpires to 90.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that the usrdata ubi may be mounted abnormally in a short time after the module was powered off by executing **AT+QPOWD=0**.	R07A08_30.0 03.30.003
GENERAL	Optimized the jamming detection algorithm to improve the accuracy.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that Host could not obtain the IP from MBIM if the network only allocated IP without DNS address.	R07A08_30.0 03.30.003
GENERAL	Updated SE13 TABLE date to 2020/12/21.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that the module could not work normally when executing **AT+QGPSGNMEA="GSV"** after searching for multiple satellites.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that **AT+QCFG="PCMCLK",0** could not turn off PCM clock.	R07A08_30.0 03.30.003
GENERAL	Updated the ATT MBN version to 202102031 to use the MTU size allocated by the network and change ue_usage_setting to DATA Centric.	R07A08_30.0 03.30.003
GENERAL	Modified the third and fourth APN profile for SKT and updated SKT MBN version to 202103121.	R07A08_30.0 03.30.003
GENERAL	Updated DCM MBN version to 202104121 to solve the problem of unable to connect to TCP for data transmission after a successful	R07A08_30.0 03.30.003

	network search.	
GENERAL	When peer IP address length was more than 50 chars, silently truncated the string to 50 chars.	R07A08_30.003.30.003
GENERAL	Not triggered card power-down if EF-DIR read fails.	R07A08_30.003.30.003
GENERAL	Populated file attributes for EST file when card did not return FCP data.	R07A08_30.003.30.003
GENERAL	No sim E911 call for specific operators should not be blocked.	R07A08_30.003.30.003
GENERAL	Solved the problem that the Verizon OMA server could not be connected using IPv6.	R07A08_30.003.30.003
GENERAL	Modified the first APN to IPV6 only for TMO.	R07A08_30.003.30.003
GENERAL	Solved the problem that the uploaded ATT APN name of Object 11 instance 0 is null.	R07A08_30.003.30.003
GENERAL	Solved the problem URC broadcast could not work normally after enabling CMUX feature.	R07A08_30.003.30.003
GENERAL	Set the default MTU to 1430 for ATT.	R07A08_30.003.30.003
GENERAL	Updated Telstra MBN version to 202105192.	R07A08_30.003.30.003
GENERAL	Modified the configuration of the 2nd profile (IMS) for TMO to change the OVRRIDEHOPDP to IPV6.	R07A08_30.003.30.003
GENERAL	Not to send UPDATE messages to the server immediately after the module was booted and registered to LwM2M successfully.	R07A08_30.003.30.003
GENERAL	Fixed the problem of incorrect RTC time synchronized from NITZ in some time zones.	R07A08_30.003.30.003
GENERAL	Optimized the operator's 3G Sunset solution to solve the problem of no network in some scenarios (such as roaming) at AT&T 3G Sunset.	R07A08_30.003.30.003
GENERAL	Modified 2nd, 3rd, and 4th APN for KT MBN, and updated the KT MBN version to 202106221.	R07A08_30.003.30.003
GENERAL	Disabled fast dormancy feature for TMO.	R07A08_30.003.30.003
GENERAL	Updated ROW MBN version number to 202108022.	R07A08_30.003.30.003
GENERAL	Limited LTE band to B4&B13 for Verizon.	R07A08_30.003.30.003
GENERAL	Fixed the problem that the USB could not work normally when the module rebooted for the first time after DFOTA upgrade.	R07A08_01.003.01.003
AUDIO	Optimized **AT+QLTONE** to play tone.	R07A08_01.003.01.003

GENERAL	For non-Chinese operators, turned on the AGPS function.	R07A08_01.0 03.01.003
GENERAL	Solved the problem that pcmclk could not be enabled by **AT+QCFG="PCMCLK"**.	R07A08_01.0 03.01.003
GENERAL	Modified RF parameters to update the CEFS version to "EG25_G", 00011, 202006301.	R07A08_01.0 03.01.003
DTMF	Extended **AT+QTONEDET=1** to support soft decode feature.	R07A08_01.0 03.01.003
TCP/UDP	Increased the length of domain name returned by **AT+QSSLOPEN** from 40 bytes to 256 bytes.	R07A08_01.0 03.01.003
GENERAL	Updated Telstra MBN version to 202007141.	R07A08_01.0 03.01.003
GENERAL	Solved the problem that data sent and received by the module would lost after the module connected to the DTLS server.	R07A08_01.0 03.01.003
GENERAL	Updated KT MBN version to 202007211.	R07A08_01.0 03.01.003
GENERAL	Solved the problem that the incorrect value (0, indicating that RNDIS is not automatically connected) returned by **AT+QCFG="QCAUTOCONNECT"** after RNDIS mode was set by **AT+QCFG="usbnet",3**.	R07A08_01.0 03.01.003
TCP SSL	Solved the problem that memory leak occurred when unilateral and mutual authentication connection with SSL was performed.	R07A08_01.0 03.01.003
DFOTA	Solved the problem that DFOTA upgrade failed when special characters included in the HTTP URL.	R07A08_01.0 03.01.003
GENERAL	Fixed the problem that **AT+QWSSIDHEX** could not set SSID encoding mode to default text mode.	R07A08_01.0 03.01.003
TCP/UDP	Extended **AT+QICFG="window/scale"** to configure TCP Window scale.	R07A08_01.0 03.01.003
GENERAL	Solved the problem that the default values of HSDPA returned by **AT+QCFG="hsdpacat"** and HSUPA returned by **AT+QCFG="hsupacat"** were incorrect.	R07A08_01.0 03.01.003
Voice Call	Fixed the problem that **AT+CPBR** could not read emergency calls from SIM card.	R07A08_01.0 03.01.003
SMS	Solved the problem that **AT+QCFG="urcport/sms"** could not set SMS reporting port to debug port.	R07A08_01.0 03.01.003
WIFI	Solved the problem that WIF could not connect to the hidden SSID.	R07A08_01.0 03.01.003
TCP/UDP	Solved the problem that the number of actually connected clients did not match the set clients when the module was used as a TCP server.	R07A08_01.0 03.01.003
GENERAL	Solved the problem that after QBI service closed, MBIM could not work normally when it was repeatedly opened or closed.	R07A08_01.0 03.01.003
SMS	Solved the problem that the AT port could not work normally due to the execution of the **AT+QCFG="sms/listmsgmap"** command.	R07A08_01.0 03.01.003
FTP	Solved the problem that error code 627 returned when data was downloaded discontinuously through FTP.	R07A08_01.0 03.01.003

MQTT	Corrected the response format of **AT+QMTUNS=?** from +QMTSUB to +QMTUNS.	R07A08_01.0 03.01.003
FTP	Solved the problem that error code 619 may be returned when PUT file via FTP.	R07A08_01.0 03.01.003
FILE	Solved the problem that the module may not work when uploading 10K files to the SFS via **AT+QFUPL="SFS:10K.txt",10240**.	R07A08_01.0 03.01.003
HTTP	Solved the problem that after connecting HTTP(S) server successfully with wrong URL and sending GET request through **AT+QHTTPGET**, executing **AT+QHTTPSTOP** to cancel HTTP(S) request before URC reported, AT port may not work normally.	R07A08_01.0 03.01.003
HTTP	Solved the problem that an extra +QHTTPURC: "closed" reported when enabling HTTP(S) session closing reporting through **AT+QHTTPCFG="closed/ind"**.	R07A08_01.0 03.01.003
HTTP	Solved the problem that **AT+QHTTPGET** may not send the GET request to HTTP(S) server and there may be no timeout occurred.	R07A08_01.0 03.01.003
GENERAL	Fixed the deadlock occurred when loading/unloading Mac driver.	R07A08_01.0 03.01.003
GENERAL	Updated goldenbin to QL_FC20_V05 for customer requirement.	R07A08_01.0 03.01.003
TCP/UDP	Solved the problem that after connecting to TCP server through **AT+QIOPEN** for 60 seconds, the module did not send TCP disconnection wave after **AT+QICLOSE** was executed.	R07A08_01.0 03.01.003
GENERAL	Disabled VICE feature for Verizon.	R07A08_01.0 03.01.003
GENERAL	Modified the value of voipMinSessionExpires to 90 for Commercial-TMO_VoLTE MBN.	R07A08_01.0 03.01.003
BT	Solved the problem that some device information could not include in the scan result returned by **AT+QBTSCAN**.	R07A08_01.0 03.01.003
HTTP	Solved the problem of an error code 702 reported when there was no response from TCP server after HTTP PUT request was sent.	R07A08_01.0 03.01.003
WIFI	Solved the problems below: 1. OK was unexpectedly returned when the password length configured by **AT+QWIFICFG="auth"** is out of range (greater than 63 bytes). 2. The return value of **AT+QWIFICFG="auth"** was incorrect.	R07A08_01.0 03.01.003
TCP SSL	Solved the problem that there was one more empty line on the "cacertex" certificate path returned by **AT+QSSLCFG="cacertex"**.	R07A08_01.0 03.01.003
SMS	Optimized SMS feature to solve the problem that after the SMS is received, the abnormal URC +CMTI: ,0 was reported, and no content has been read.	R07A08_01.0 03.01.003
GENERAL	Solved the problem that special character 7bit 0x00f1 could not be displayed.	R07A08_01.0 02.01.002
GENERAL	Updated mmgsdi_se13_table.h.	R07A08_01.0 02.01.002
HTTP	Optimized the feature of HTTP after enabling rspout/auto.	R07A08_01.0 02.01.002
GENERAL	Optimized AT command **AT+QCFG="DIVCTL"** to solve the problem of incorrect length of	R07A08_01.0 02.01.002

"/nv/item_files/modem/lte/ML1/rx_tuning_chan".

GENERAL	Solved the problem of error occurred when executing **AT+QFWDCLIENT=1,3,"IP","TCP","220.180.239.212",8007** without dialing.	R07A08_01.0 02.01.002
GENERAL	Optimized **AT+QGPSCFG="outport","uartdebug"** to solve the problem that the GPS URC could not output from debug port.	R07A08_01.0 02.01.002
GENERAL	Optimized **AT+QWWAN** command to solve the problem of file storage path error.	R07A08_01.0 02.01.002
GENERAL	Update Telecom MBN version number to 202001161.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that WCDMA Band 4 and Band 8 diversity were opened unexpectedly by **AT+QCFG="diversity",1**.	R07A08_01.0 02.01.002
GENERAL	Optimized the history call record function.	R07A08_01.0 02.01.002
SIMCARD	Enabled FEATURE_MMGSDI_IGNORE_INIT_ERRO configuration to identify invalid SIM card.	R07A08_01.0 02.01.002
MQTT	Solved the problem that after setting willmessage with a length of 256 bytes through **AT+QMTCFG="WILLEX"**, willtopic will also be returned after willmessage in URC.	R07A08_01.0 02.01.002
WIFI	Solved the problem of failed to enable WIFI after configuring WIFI dual AP (AP0 + AP1) mode.	R07A08_01.0 02.01.002
SMS	Solved the problem that the current operator's SMS center number could not be displayed after enabling the SIM card hot-plugging function.	R07A08_01.0 02.01.002
Queclocator 2.0	Modified parameter format for AT commands related to base station positioning locator/LBS 2.0 as **AT+QLBSCFG?**, **AT+QLBSCFG=?** and **AT+QLBSCFG="token"**.	R07A08_01.0 02.01.002
Queclocator 2.0	Solved the problem that the error code returned incorrectly after executing **AT+QLBS**.	R07A08_01.0 02.01.002
NETWORK	Optimized **AT+QRRCCONSTATE** command.	R07A08_01.0 02.01.002
FTP	Optimized FTP upload and download processes.	R07A08_01.0 02.01.002
NETWORK	Optimized **AT+QCFG="fast_dormancy"** to support fast dormancy mode 3.	R07A08_01.0 02.01.002
NETWORK	Optimized AT command **AT+QCFG="lte/preferfre"** to solve the problem of incorrect value of bandwidth parameter.	R07A08_01.0 02.01.002
MQTT	Optimized AT command **AT+QMTPUBEX** to solve the problem of unstable module caused by the server disconnecting actively after entering data mode and Water Mark has been released.	R07A08_01.0 02.01.002
Voice Call	Optimized the three-party call function.	R07A08_01.0 02.01.002
FTP	Supported multiple server response parsing in FTP mode.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that the computer could not connect to the network after executing **AT+QWWAN=1**.	R07A08_01.0 02.01.002

NETWORK	Optimized Telecom LTE ONLY IoT card network registration.	R07A08_01.0 02.01.002
Voice Call	Reported DSCI when making an emergency call.	R07A08_01.0 02.01.002
GENERAL	Solved the problem of reporting error code 707 (HTTP (S) network open failed) when using **AT+QLBS** for positioning under AUTO or fixed 4G mobile network.	R07A08_01.0 02.01.002
GENERAL	Update ROW MBN version to 201905141.	R07A08_01.0 02.01.002
GENERAL	Update the ID of Profile5 in VERIZON MBN.	R07A08_01.0 02.01.002
NETWORK	Solved that problem of unable to re-initialize Home PLMN search when 313-100 SIM was registered on a 310-410 PLMN.	R07A08_01.0 02.01.002
GENERAL	Optimized **AT+QCFG="DISRPLMN"** command to support disabling RPLMN and RPLMNACT.	R07A08_01.0 02.01.002
GENERAL	Extended **AT+QFOTADL** command to increase DFOTA upgrade path length.	R07A08_01.0 02.01.002
MMS	Solve the problem that MMS proxy addresses starting with 0 could be set with **AT+QMMSCFG="proxy"**.	R07A08_01.0 02.01.002
FTP	Solved the problem that the module could not work normally after executing **AT+CFUN=0** on other AT ports during FTP upload or download.	R07A08_01.0 02.01.002
GENERAL	Updated reliance MBN version to 202003251.	R07A08_01.0 02.01.002
TCP/UDP	Solved the problem that after activating PDP, the AT port may not work normally after executing **AT+QIDEACT** command immediately without response.	R07A08_01.0 02.01.002
GENERAL	Solved the problem of error returned when querying NV553 after activating ATT MBN.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that the default server port (80) could not be obtained by **AT+QLBSCFG?**.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that the SMS reporting port could not be set as the debug port by **AT+QCFG="urcport/sms"**.	R07A08_01.0 02.01.002
GENERAL	Updated AT command **AT+CGSN** to support querying IMEI number and SN number.	R07A08_01.0 02.01.002
GENERAL	Solved the problem of incorrect default value of **ATX** queried by **AT&V**.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that the IPV6 domain name address resolved by **AT+QIDNSGIP** was incorrect.	R07A08_01.0 02.01.002
GENERAL	Update KDDI MBN version to 202004041.	R07A08_01.0 02.01.002
GENERAL	Updated the SBM MBN version to 202004211.	R07A08_01.0 02.01.002
FILE	Solved the problem that data may lost when upload files by sending FILE related commands on UART/debug ports.	R07A08_01.0 02.01.002

GENERAL	Changed the number of attachment returned by **AT+QCFG="siminvalirecovery"** from 208 to (0-1).	R07A08_01.0 02.01.002
GENERAL	Changed the range value returned by **AT+QDAI=?** from (1-4) to (1-6).	R07A08_01.0 02.01.002
GENERAL	Solved the problem of an error returned when setting SGMII by **AT+QSGMIICFG="config"**.	R07A08_01.0 02.01.002
GENERAL	Updated Verizon MBN version to 202004091.	R07A08_01.0 02.01.002
MQTT	Fixed module RI changed but no URC reported when sending data via MQTT protocol.	R07A08_01.0 02.01.002
GENERAL	Updated TF_Germany_VoLTE to support VoLTE.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that after setting the band to a fixed value, the band value would resume to the default value after the module rebooted twice or three times.	R07A08_01.0 02.01.002
GENERAL	Registered to the network with APN1 for CMCC.	R07A08_01.0 02.01.002
GENERAL	Optimized the **AT+QCFG="airplanecontrol"** command to support setting QMI not to exit the flight mode when pulling w_disable to low.	R07A08_01.0 02.01.002
GENERAL	Solved the problem that the local time queried by **AT+CCLK** was inconsistent with the local time synchronized by **AT+CTZU=3** from the network.	R07A08_01.0 02.01.002
GENERAL	Solved the problem of USB disconnection.	R07A08_01.0 02.01.002
DFOTA	Solved the problem of 502 and 520 error codes reported after rebooting the module due to powering down when DFOTA upgrade to 90%.	R07A08_01.0 02.01.002
GENERAL	Optimized AT command **AT+QCFG="ppp/sleep_ri"** to solve the problem of no sleep_ri jitter after receiving PPP data.	R07A08_01.0 02.01.002
NETWORK	Optimized China Telecom B5 to search frequency 2452 in priority.	R07A08_01.0 02.01.002
FILE	Optimized SFS data resume upload function.	R07A08_01.0 02.01.002
NETWORK	Optimized AT command **AT+QNETINFO**.	R07A08_01.0 01.01.001
NETWORK	Optimized IMEI backup protection mechanism.	R07A08_01.0 01.01.001
DFOTA	Improved the feature of DFOTA.	R07A08_01.0 01.01.001
HTTP	Changed the number of the parameter <index> of AT command **AT+QHTTPCFGEX** to be 40 from 12.	R07A08_01.0 01.01.001
NETWORK	Improved the module stability when failed to encode with ANS1.	R07A08_01.0 01.01.001
AUDIO	Solved the problem that two sessions would be opened during a call.	R07A08_01.0 01.01.001

NETWORK	Optimized AT command **AT+QCOPS** to search nearby PLMN information as many as possible.	R07A08_01.0 01.01.001
HTTP	Updated the encode_buffer size from 1024 to 2048 bytes for supporting long URL.	R07A08_01.0 01.01.001
ECM	Solved the problem that the ECM could not be mounted in Linux kernel with later version.	R07A08_01.0 01.01.001
AUDIO	Optimized AT command **AT+QLTONE**.	R07A08_01.0 01.01.001
WIFI	Solved the problem that TCP SERVER could not be established after executing **AT+QWTOCLIEN=1**.	R07A08_01.0 01.01.001
GENERAL	Solved the problem that the positioning mode always be 2D after positioning.	R07A08_01.0 01.01.001
GENERAL	Changed the default value of appid for Verizon of AT command **AT+QGPSCFG="appidname"**.	R07A08_01.0 01.01.001
AUDIO	Solved the problem that the AT performance port would not work after executing **AT+QRXIIR?**.	R07A08_01.0 01.01.001
NETWORK	Updated Verizon MBN.	R07A08_01.0 01.01.001
DTMF	Optimized the feature of DTMF.	R07A08_01.0 01.01.001
FTP	Improved FTP feature under IPv6.	R07A08_01.0 01.01.001
HTTP	Improved HTTP feature under IPv6.	R07A08_01.0 01.01.001
AUDIO	Solved the problem that UAC has no sound during a call.	R07A08_01.0 01.01.001
GENERAL	Solved the problem of USB disconnection.	R07A08_01.0 01.01.001
TCP SSL	Optimized the reuse logic of SSL session.	R07A08_01.0 01.01.001
HTTP	Solved the problem that the file pointer could not be closed normally when sending files with **AT+QHTTPSEND**.	R07A08_01.0 01.01.001
MQTT	Optimized the feature of MQTT.	R07A08_01.0 01.01.001
TCP SSL	Optimized the feature of SSL.	R07A08_01.0 01.01.001
GENERAL	Solved the problem that the first sentence of command **AT+QGPSGNMEA="GSV"** would be messed if the number of GSV sentence is more than 4.	R07A08_01.0 01.01.001
GENERAL	Updated TELUS MBN to 0x05800C43.	R07A08_01.0 01.01.001
GENERAL	Updated VoLTE-ATT MBN to version 0x0501033C.	R07A07_01.0 02.01.002
NETWORK	Solved the problem that when executing **AT+QCFG="nwscanmode"** to fix 2G network in the case of auto	R07A07_01.0

	registering network, no CREG reporting and no cell information of CGREG reporting after setting **AT+CREG=2**, **AT+CGREG=2** and **AT+CEREG=2**.	02.01.002
NETWORK	Solved the problem that there was no LTE result when executing **AT+QCOPS=7,0** and **AT+QCOPS=4,0**.	R07A07_01.0 02.01.002
DFOTA	Solved the problem that the module would reboot and restore repeatedly after DFOTA upgrade.	R07A07_01.0 02.01.002
NETWORK	Changed the roaming state to home service when 313-100 SIM was registered on a 310-410 PLMN.	R07A07_01.0 02.01.002
GENERAL	Removed the function of APN Disable/Enable.	R07A07_01.0 02.01.002
GENERAL	Updated the default address of dmacc to 4g2.vzw.com.	R07A07_01.0 02.01.002
AUDIO	Solved the problem of low WB downlink volume.	R07A07_01.0 02.01.002
AUDIO	Solved the problem that DTMF playing without sound when answering a call.	R07A07_01.0 02.01.002
AUDIO	Solved the problem that voice over USB feature was not available.	R07A07_01.0 02.01.002
DFOTA	Solved the problem that the error code DELTA_UPDATE_CHECK_FILE_FAILED and IP_PREVIOUS_UPDATE_FAILED of US VERIZON were not reported after DFOTA upgrade.	R07A07_01.0 02.01.002
MMS	Solved the small probability problem that MMS could not be received.	R07A07_01.0 02.01.002
GENERAL	Improved the capability of FGI bit20.	R07A07_01.0 02.01.002
GENERAL	Solved the problem that client could not connect to network after executing **AT+QWWAN=1**.	R07A07_01.0 02.01.002
DFOTA	Optimized DFOTA upgrade.	R07A07_01.0 02.01.002
TCP SSL	Extended the command **AT+QSSLCFG="cacertex"** to add multiple CA certificates.	R07A07_01.0 02.01.002
GENERAL	Solved the problem that the partition of usrdata and data would be formatted unexpectedly.	R07A07_01.0 02.01.002
MQTT	Corrected the MSG_ID that reported when MQTT sending message timeout.	R07A07_01.0 02.01.002
DFOTA	Solved the DFOTA upgrade failure.	R07A07_01.0 02.01.002
QMI	Solved the problem that error occurred after executing command **AT$QCRMCALL**.	R07A07_01.0 02.01.002
NETWORK	Changed the maximum band number to be searched by command **AT+QCOPS**.	R07A07_01.0 02.01.002
TCP/UDP	Supported to report DATA LENGTH within TCPIP URC reported under the buffer mode.	R07A07_01.0 02.01.002

GENERAL	Optimized GPS performance.	R07A07_01.0 02.01.002
GENERAL	1. Controlled SAR on and off through GPIO pins. 2.Optimized **AT+QCFG="sarcfg"** to configure SAR power maximum and falling gradient for specific band of LTE/WCDMA.	R07A07_01.0 02.01.002
FILE	Optimized FILE related commands to support one more file type.	R07A07_01.0 02.01.002
DFOTA	Solved the problem that there was SDCARDSTART and SDCARDEND URC reported unexpectedly when executing **AT+QFOTADL**.	R07A07_01.0 02.01.002
FTP	Solved the problem that an error would be reported unexpectedly when the FTP transmission was not continuous.	R07A07_01.0 02.01.002
GENERAL	Solved the probability problem that modules rebooting failed when the modem loaded MBN.	R07A07_01.0 02.01.002
GENERAL	Solved the problem that subcommands **AT+QSSLCFG="dtls"** and **AT+QSSLCFG="dtlsversion"** was lacked when executing **AT+QSSLCFG=?**.	R07A07_01.0 02.01.002
WIFI	Solved the problem that WIFI configuration lost after modules rebooted.	R07A07_01.0 02.01.002
GENERAL	Solved the problem that AT command **AT+QFWDCLIENT** could not link to Qserver successfully.	R07A07_01.0 02.01.002
DFOTA	Fixed the problem of URC message return error during DFOTA upgrade.	R07A07_01.0 02.01.002
GENERAL	Disabled the module to retry SIM card detecting after the UICC card was mismatched.	R07A07_01.0 02.01.002
DFOTA	Opened the serial port for URC output at the baud rate that the customer set during the recovery process.	R07A07_01.0 02.01.002
FTP	Solved the problem of serial port abnormality while returned ERROR directly after returning CONNECT via commands **AT+QFTPPUT**, **AT+QFTPGET**, **AT+QFTPLIST** and **AT+QFTPNLST** under PORT mode.	R07A07_01.0 02.01.002
HTTP	Solved the problem of returning +CME ERROR: 702 when executing AT commands **AT+QHTTPPOST** and **AT+QHTTPPUT**.	R07A07_01.0 02.01.002
GENERAL	Optimized the file system backup restore mechanism.	R07A07_01.0 02.01.002
NETWORK	Supported WCDMA BAND19 for AT command **AT+QCFG="BAND"**.	R07A07_01.0 01.01.001
GENERAL	Optimized parameter partition restore mechanism.	R07A07_01.0 01.01.001
GENERAL	Solved the problem that no response returned or URC for manufacturer when executing **AT+CMEE=0**.	R07A07_01.0 01.01.001
NTP	Solved the problem of format error when executing AT command **AT+QCFG="NTP"**.	R07A07_01.0 01.01.001
GENERAL	Solved the problem of returned format error when executing AT command **AT+CCLK?**.	R07A07_01.0 01.01.001
GENERAL	Solved the problem that when set the parameter of **AT+CTZU** to illegal value 2, it would be set and take effect unexpectedly, not fail.	R07A07_01.0

		01.01.001
GENERAL	Set that when the SIM card was locked in PUK2, allowed to execute **AT+CPIN=<PUK2>,<new PIN2>** to unlock PUK2.	R07A07_01.0 01.01.001
TCP/UDP	Supported to report the data length also when TCPIP reporting URC.	R07A07_01.0 01.01.001
GENERAL	Solved the problem that thermal engine isn't working.	R07A07_01.0 01.01.001
GENERAL	Updated the TS25 PLMN list.	R07A07_01.0 01.01.001
AUDIO	Solved the problem of no sound on pcm slave mode.	R07A07_01.0 01.01.001
AUDIO	Supported pcm slot to be configurable.	R07A07_01.0 01.01.001
TCP/UDP	Solved the problem that if TCP half-closed, error returned when executing **AT+QISEND=0,0**.	R07A07_01.0 01.01.001
GENERAL	Optimized single image upgrade.	R07A07_01.0 01.01.001
DFOTA	Solved the DFOTA upgrade failure.	R07A07_01.0 01.01.001
MQTT	Solved the problem that the module could not receive more than 1024 bytes of data sent by the MQTT server.	R07A07_01.0 01.01.001
PPP	Solved the problem that the host could not establish PPP under the GSM network.	R07A06_01.0 01.01.001
AUDIO	Fixed the problem that the incoming call has no ringtone.	R07A06_01.0 01.01.001
TCP/UDP	Solved the problem that when established multiple TCP connection, it was abnormally to loop QIRD quickly.	R07A05_01.0 01.01.001
NETWORK	Added cell blacklist function when RRC access failure reached a certain condition.	R07A05_01.0 01.01.001
GENERAL	Optimized file system protection mechanism.	R07A05_01.0 01.01.001
NETWORK	Solved the issue that scanning flag was not cleared when executing **AT+QCOPS** returned error.	R07A04_01.0 01.01.001
DFOTA	Optimized DFOTA process.	R07A04_01.0 01.01.001
AUDIO	Optimized below AT commands **AT+QAUDCFG="alc5616/dlgain"**, **AT+QAUDCFG="alc5616/ulgain"**.	R07A04_01.0 01.01.001
TCP SSL	Modified SSL to support TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384.	R07A04_01.0 01.01.001

5. Known Issues

Item/Category	Brief Description
/	/

6. Functions

Basic Function								
SMS	Voice Call	Data Call	Fax	USSD	PHB	STK	CMUX	FILE[1]
Y	Y	N	N	N	Y	N	Y	Y

Protocol Function								
QMI	TCP/ UDP	PPP	FTP	HTTP	NITZ	NTP	TCP SSL	MMS[2]
Y	Y	Y	Y	Y	Y	Y	Y	Y
SMTP	PING	SMTPS	HTTPS	MQTT				
Y	Y	Y	Y	Y				

Special Function								
SIM Detection	DFOTA	Quec Locator 2.0[3]	ECM	MBIM	Dual UART	TTS	DTMF[4]	UAC
Y	Y	Y	Y	Y	Y	Y	Y	Y
RNDIS	WIFI	SD	LowPower	RMNET	BT[5]	QuecThing		
Y	Y	Y	Y	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 RAM FILE only.
4. [2] Supports MMS sending only.
5. [3] QuecLocator 2.0 is an efficient location technology developed by Quectel, While it's not free, you need pay for it if you would like to use it.
6. [4] Supports DTMF decoding only.
7. [5] Supports BLE, SPP and HFG.
8. Verification Environment is shown below. For more details, please contact Quectel technical support.
   For Windows,
   USB Driver: Quectel_LTE_Windows_USB_Driver_V2.2.4
   Qflash Tool: QFlash_V5.5

   For Linux,

QFirehose Tool: Quectel_LTE&5G_QFirehose_Linux&Android_V1.4.8

USB Driver: Quectel_LTE&5G_Linux_USB_Driver_V1.0

QMI_WWAN Driver: Quectel_Linux&Android_QMI_WWAN_Driver_V1.2.1

GobiNet Driver: Quectel_Linux&Android_GobiNet_Driver_V1.6.3

Quectel-CM Tool: Quectel_QConnectManager_Linux_V1.6.1

QLog Tool: Quectel_QLog_Linux&Android_V1.5.8