

EG25-G-GB Release Notes

LTE Standard Module Series

Rev. EG25-G-GB_Firmware_Release_Notes_V0708_30.004.30.004

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1. Preamble

This document provides the Release Notes for EG25-G-GB firmware version **EG25GGBR07A08M2G_30.004.30.004**. It describes major changes compared to for EG25-G-GB firmware version **EG25GGBR07A08M2G_30.003.30.003**.

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
NETWORK	<ol style="list-style-type: none"> Extended the AT+QOPSCFG="displaybw" command to control whether AT+QOPS displays the bandwidth under LTE. Extended the AT+QOPS command to support displaying bandwidth under LTE. 	R07A08_30.0 04.30.004
TCP/UDP	Added the AT command AT+QCFG="TCP/SendMode" to configure TCP sending mode.	R07A08_30.0 04.30.004
WIFI	Added URC +QWIFIAUTHFAIL to report a device(STA) fails to connect to the module (configured as AP) for authorization failure.	R07A08_30.0 04.30.004
AUDIO	Extended the AT command AT+QCFG="tone/incoming" to support playing the specified ringtone when a call came in.	R07A08_30.0 03.30.003
DFOTA	Added AT command AT+QFOTADL=<url>,"down_to_ufs" to download the FTP file to local UFS directory.	R07A08_30.0 03.30.003
MMS	Added AT command AT+QCFG="mms_rec_control" to control whether to save the received MMS.	R07A08_30.0 03.30.003
MQTT	Added AT command AT+QMTCFG="protocol/check" to configure whether to check MQTT header information.	R07A08_30.0 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+QGSPAI 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
GENERAL	Added AT+QCFG="usage/apmem" to get device memory usage.	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@www.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
TCP/UDP	Added AT command AT+QIKALIVE to change to the minimum keepalive value to 1 second.	R07A08_01.0 02.01.002
FILE	Added File SFS function.	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+QSSSEND=0,0 to query the cache status of the AT+QSSSEND .	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+QFWDSEVER , 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
GENERAL	Added Sprint-VoLTE MBN.	R07A07_01.0 02.01.002
HTTP	Added the following AT commands: AT+QHTTPSEND , AT+QTTPCFGEX , AT+QHTTTPUT and AT+QHTTTPUTFILE .	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 , AT+QCHLDIPMPY .	R07A07_01.0 01.01.001
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
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=0/1 , the APN type of "attn2mgloba" 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+QWTTT 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 usdata 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 network search.	R07A08_30.0 03.30.003
GENERAL	When peer IP address length was more than 50 chars, silently truncated the string to 50 chars.	R07A08_30.0 03.30.003
GENERAL	Not triggered card power-down if EF-DIR read fails.	R07A08_30.0 03.30.003
GENERAL	Populated file attributes for EST file when card did not return FCP data.	R07A08_30.0 03.30.003
GENERAL	No sim E911 call for specific operators should not be blocked.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that the Verizon OMA server could not be connected using IPv6.	R07A08_30.0 03.30.003
GENERAL	Modified the first APN to IPV6 only for TMO.	R07A08_30.0 03.30.003
GENERAL	Solved the problem that the uploaded ATT APN name of Object 11 instance 0 is null.	R07A08_30.0 03.30.003
GENERAL	Solved the problem URC broadcast could not work normally after enabling CMUX feature.	R07A08_30.0 03.30.003
GENERAL	Set the default MTU to 1430 for ATT and to 1342 for FirstNet.	R07A08_30.0 03.30.003
GENERAL	Updated Telstra MBN version to 202105192.	R07A08_30.0 03.30.003
GENERAL	Modified the configuration of the 2nd profile (IMS) for TMO to change the OVRIDEHOPDP to IPV6.	R07A08_30.0 03.30.003
GENERAL	Not to send UPDATE messages to the server immediately after the module was booted and registered to LwM2M successfully.	R07A08_30.0 03.30.003
GENERAL	Fixed the problem of incorrect RTC time synchronized from NITZ in some time zones.	R07A08_30.0 03.30.003

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_30.0 03.30.003
GENERAL	Modified 2nd, 3rd, and 4th APN for KT MBN, and updated the KT MBN version to 202106221.	R07A08_30.0 03.30.003
GENERAL	Disabled fast dormancy feature for TMO.	R07A08_30.0 03.30.003
GENERAL	Updated ROW MBN version number to 202108022.	R07A08_30.0 03.30.003
GENERAL	Limited LTE band to B4&B13 for Verizon.	R07A08_30.0 03.30.003
GENERAL	Fixed the problem that the USB could not work normally when the module rebooted for the first time after DFOTA upgrade.	R07A08_01.0 03.01.003
AUDIO	Optimized AT+QLTONE to play tone.	R07A08_01.0 03.01.003
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+QTONEDT=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	R07A08_01.0

	AT+QCFG="hsupacat" were incorrect.	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+QFUP="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 "/nv/item_files/modem/lte/ML1/rx_tuning_chan" .	R07A08_01.0 02.01.002
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	Solved the problem of incorrect 7bit_alphabet printed by AT+QGPSURC .	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+QGPSONMEA="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 registering network, no CREG reporting and no cell information of CGREG reporting after setting AT+CREG=2 , AT+CGREG=2 and AT+CEREG=2 .	R07A07_01.0 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 usrdta 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\$QCRM_CALL .	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+QHTTPOST and AT+QHTTTPUT .	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

- Y means the firmware supports this function.
- N means the firmware does not support this function.
- ¹⁾ Supports RAM FILE only.
- ²⁾ Supports MMS sending only.
- 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.
- ⁴⁾ Supports DTMF decoding only.
- ⁵⁾ Supports BL, SPP and HFG.
- 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,

QFlash Tool: LTE<E-A_QFlash_Linux&Android_V2.0
QFirehose Tool: Quectel_LTE&5G_QFirehose_Linux&Android_V1.4.6
USB Driver: Quectel_LTE&5G_Linux_USB_Driver_V1.0
QMI_WWAN Driver: Quectel_Linux&Android_QMI_WWAN_Driver_V1.2.0.14
GobiNet Driver: Quectel_Linux&Android_GobiNet_Driver_V1.6.2.9
Quectel-CM Tool: Quectel_QConnectManager_Linux_V1.6.0.15
QLog Tool: Quectel_QLog_Linux&Android_V1.4.17

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