

EG25-G-GB

Release Notes

LTE Standard Module Series

Rev: EG25-G-GB_Firmware_Release_Notes_V0708_30.200.30.200

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1. Preamble

This document provides the Release Notes for EG25-G-GB firmware version **EG25GGBR07A08M2G_30.200.30.200**. It describes major changes compared to for EG25-G-GB firmware version **EG25GGBR07A08M2G_30.007.30.007**.

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	Relevant technical controls have been carried out to restrict normal network registration in regions such as RUS and IRN, thus ensuring that the module can be used only for civilian applications.	R07A08_30.200.30.200
WIFI	Added AT+QWIFICON to query the network connection status of WIFI.	R07A08_30.200.30.200
GENERAL	Added AT+QDTMFDETSET to configure the DTMF detection parameter of ACDB.	R07A08_30.200.30.200
GENERAL	Sent URC +QODM: "DME",0,APN PROFILE 3,apnname to notify the host of 3rd APNs changes of Verizon OMADM.	R07A08_30.200.30.200
GENERAL	Enable SMSoIP feature capability.	R07A08_30.200.30.200
GENERAL	Added AT+QCPUSN to query CPU serial number.	R07A08_30.200.30.200
GENERAL	Added AT+QCFG="call_profile" to set profiles used by ql_manager.	R07A08_30.200.30.200
GENERAL	Added AT+QMAP="LANIP" to query or set the default DHCP address pool for LAN interface.	R07A08_30.200.30.200
GENERAL	The new firmware version cannot be downgraded to previous versions, otherwise the module will not be able to work normally.	R07A08_30.200.30.200
DFOTA	Added AT+QFOTATIMECFG to set DFOTA expiration time.	R07A08_30.07.30.007

DTMF	Added AT+QAUDCFG="voldtmfcfg" to configure local playback time and interval time of VoLTE DTMF.	R07A08_30.0 07.30.007
FILE	Added AT+QFMov command to support moving a file.	R07A08_30.0 07.30.007
NETWORK	Added AT+QNWCFG="rej_cause_7_mapping" command to control whether to map the network rejection reason value #7.	R07A08_30.0 07.30.007
SIMCARD	Added AT+QSIMCFG="disable_physim" to enable or disable SIM card.	R07A08_30.0 07.30.007
WIFI	Added AT+QWIFICFG="datarate" and AT+QWIFICFG="traffictr ansf" to query WIFI rate and traffic respectively.	R07A08_30.0 07.30.007
WIFI	<ol style="list-style-type: none"> 1. Added AT+QFILTER="mode" to set the black and white list in WIFI AP mode. 2. Added AT+QFILTER="add" to add the filtering addresses of black and white list in WIFI AP mode. 3. Added AT+QFILTER="del" to delete the filtering addresses of black and white list in WIFI AP mode. 4. Added AT+QFILTER="list" to list the configured filtering addresses of black and white list in WIFI AP mode. 5. Added AT+QTRANSDOMAIN to set domain name conversion. 6. Added AT+QFLOWCOUNT to count the uplink and downlink traffic data of WIFI AP. 	R07A08_30.0 07.30.007
GENERAL	Extended AT+QCFG="ledmode" command: When <mode>=3 , the NET_STATUS light outputs a high level when SIM card is not inserted or registered, and the NET_STATUS light is expected to flash in the network state.	R07A08_30.0 07.30.007
GENERAL	Added AT+QUICKSHUTDOWN command to set the fast shutdown.	R07A08_30.0 07.30.007
GENERAL	Added AT+QCFG="gatewayset" and AT+QCFG="netmaskset" to set gateway address and subnet mask.	R07A08_30.0 07.30.007
GENERAL	Supported T-Mobile SIM card (311-882).	R07A08_30.0 05.30.005
GENERAL	Supported ES8311 codec driver.	R07A08_30.0 05.30.005
NETWORK	<ol style="list-style-type: none"> 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_30.0 04.30.004
TCP/UDP	Added 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 AT+QCFG="tone/incoming" to support playing the specified ringtone when a call came in.	R07A08_30.0 03.30.003

DFOTA	Added AT+QFOTADL=<url>,"down_to_ufs",<local_file_name>[,<username>,<password>] to download the FTP file to local UFS directory.	R07A08_30.0 03.30.003
MMS	Added AT+QCFG="mms_rec_control" to control whether to save the received MMS.	R07A08_30.0 03.30.003
MQTT	Added AT+QMTCFG="protocol/check" to configure whether to check MQTT header information.	R07A08_30.0 03.30.003
NETWORK	Added 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+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+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+QFORMATUSRDATA to format usrdata ubi.	R07A08_30.0 03.30.003
GENERAL	Added AT+QCFG="secbootstat" to get whether the secboot is enabled.	R07A08_30.0 03.30.003
GENERAL	Added 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+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
QuecLocator 2.0	Added 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+QCFG="fast/poweroff" to enable/disable fast power off function.	R07A08_01.0 02.01.002
NETWORK	Added 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+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+QEGPAPN to query the actual APN and the configured APN.	R07A08_01.0 02.01.002
QuecLocator 2.0	Added 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+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+QSSLCFG="alpn" to set SSL alpn.	R07A08_01.0 02.01.002
GENERAL	Added AT+QCFG="wakepin/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+QOPS to scan band.	R07A08_01.0 02.01.002
SIMCARD	Added AT+QSIMCHK to send UIM_AUTHENTICATE_REQ (UIM authentication).	R07A08_01.0 02.01.002
SIMCARD	Added 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+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 function.	R07A08_01.0 02.01.002
TCP/UDP	Added 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+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+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
QuecLocator 2.0	Added AT+QLBSCFG="latOrder" .	R07A08_01.0 01.01.001
GENERAL	Added AT+QMBNCFG="list" .	R07A08_01.0 01.01.001
TCP/UDP	Added AT+QCFG="tcp/windowsize" .	R07A08_01.0 01.01.001
PPP	Added AT+QCFG="ppp/sleep_ri" .	R07A08_01.0 01.01.001
GENERAL	Added 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+QGPAPN .	R07A08_01.0 01.01.001
WIFI	Added AT+QWIFICFG="version" .	R07A08_01.0 01.01.001
NETWORK	Added AT+QRRCCONSTATE .	R07A08_01.0 01.01.001
NETWORK	Added 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+QVTS .	R07A08_01.0 01.01.001
PPP	Added AT+QCFG="ppp/v4v6" .	R07A08_01.0 01.01.001
NETWORK	Added 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+QCFG="bip/auth" .	R07A07_01.0 02.01.002
GENERAL	Supported socket data forward and added related AT commands: <ul style="list-style-type: none"> ● 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+QCFG="fast_dormancy" .	R07A07_01.0 02.01.002
GENERAL	Added 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: <ul style="list-style-type: none"> ● AT+QHHTTPSEND ● AT+QHHTTPCFGEX ● AT+QHHTTPPUT ● AT+QHHTTPPUTFILE 	R07A07_01.0 02.01.002

GENERAL	Added Reliance MBN.	R07A07_01.0 02.01.002
Voice Call	Added the following AT commands: <ul style="list-style-type: none"> ● AT+QIMSACT ● AT+QDIAL ● AT+QCHLDIPMPY 	R07A07_01.0 01.01.001
Voice Call	Added AT+QECBM only for Verizon.	R07A07_01.0 01.01.001
AUDIO	Added AT+QAUDCFG="nau8810/config" .	R07A05_01.0 01.01.001
AUDIO	Optimized AT+QAUDCFG="encgain" .	R07A04_01.0 01.01.001

4. Improved Features

Item/Category	Brief Description	Since
HTTP	Optimized the problem that the error code 702 was reported in a small probability when HTTPS files were uploaded.	R07A08_30.2 00.30.200
MQTT	Solved the problem that when data transmitted through the MQTT protocol, one byte more or one byte less would occur with low probability in the received data	R07A08_30.2 00.30.200
MQTT	Fixed the problem that MQTT PINGREQ packet will still be sent after AT+QMTCFG="keepalive",0 was set.	R07A08_30.2 00.30.200
MQTT	Fixed the problem that URC +QMTRECV could not be reported.	R07A08_30.2 00.30.200
NETWORK	Optimized China Telecom B5, and add frequency point 2452 to the historical frequency point (acq_db).	R07A08_30.2 00.30.200
NETWORK	Fixed the problem that the result returned by the AT+QCSQ was an invalid value.	R07A08_30.2 00.30.200
NETWORK	Fixed the problem that the network could not be attached to because AT+QICSGP repeatedly set the parameters for more than 32 times.	R07A08_30.2 00.30.200
SMTP	Solved the problem of slow sending 10 M files for SMTP.	R07A08_30.2 00.30.200
SMTP	Fixed the problem that an opened file descriptor attachment was not properly closed after the SMTP attachment was sent completely.	R07A08_30.2 00.30.200
TCP/UDP	Optimized UDP IPv6 addresses display.	R07A08_30.2 00.30.200
WIFI	Fixed the problem that AT+QWIFICFG="scan" scan information parsing was abnormal.	R07A08_30.2 00.30.200
GENERAL	Fixed the problem that <cellid> and <tac> would not be output by	R07A08_30.2

	AT+CGREG with low probability.	00.30.200
GENERAL	Optimized back-off algorithm of Rogers operator.	R07A08_30.2 00.30.200
GENERAL	Fixed the problem that ep could not send data when the USB phy is abnormal in low probability.	R07A08_30.2 00.30.200
GENERAL	Solved the problem that With a No-Volte SIM card, the Call waiting could not adapt to the network or was determined by the UE.	R07A08_30.2 00.30.200
GENERAL	Optimized AT+CUUSD .	R07A08_30.2 00.30.200
GENERAL	Fixed the device report the wrong emm_status cause for ptcrb tc44.2.5.2.	R07A08_30.2 00.30.200
GENERAL	Fixed the problem that no POWERED DOWN URC reported after AT+QPOWD=1 was executed to power off the module when AT+QCFG="urc/delay",1 was set.	R07A08_30.2 00.30.200
GENERAL	Fixed the supplementary service functions of DT operators under VoLTE and non-VoLTE.	R07A08_30.2 00.30.200
GENERAL	Solved the problem that AT+QTEMP may not respond sometimes.	R07A08_30.2 00.30.200
GENERAL	Modified the default Windows Size of TCP Client to 45 K bytes.	R07A08_30.2 00.30.200
GENERAL	Solved the problem of LGU VoLTE phone codec negotiation.	R07A08_30.2 00.30.200
GENERAL	Updated Korean operator requirements.	R07A08_30.2 00.30.200
GENERAL	Fixed the problem of 580-precondition failure when allowcate bearer appeared immediately after SIP183 message during IMS call.	R07A08_30.2 00.30.200
FILE	Solved the problem that when uploading files by executing AT+QFUPL , the module would restart if the file name contained "\" and "/".	R07A08_30.0 07.30.007
HTTP	Solved the problem that error code 702 was returned at AT+QHTTPPOSTFILE to upload files.	R07A08_30.0 07.30.007
HTTP	Fixed the problem that the module was unstable after receiving RST during HTTPS handshake.	R07A08_30.0 07.30.007
SMS/BT	Solved the problem that SMS was abnormal after Bluetooth was turned on.	R07A08_30.0 07.30.007
SMTP	Optimized the recipients display of SMTP, and fixed the problem that more contacts cannot be viewed in the content of sent emails.	R07A08_30.0 07.30.007
TCP SSL	Solved the problem of SSL server connection failure due to incorrect SSL verification server certificate items.	R07A08_30.0 07.30.007
Voice Call	Solved the problem that the previous call number returned by AT+CLIP may be abnormally sometimes.	R07A08_30.0 07.30.007

WIFI	Solved the problem of network priority conflict when WIFI and LTE coexisted.	R07A08_30.0 07.30.007
GENERAL	Solved the problem that AT+QGPSCFG="gpsnmeatype" returned an error after MBN was switched.	R07A08_30.0 07.30.007
GENERAL	Optimized Full Reg and Reg Update solutions for Verizon.	R07A08_30.0 07.30.007
GENERAL	Solved the problem that USB DM port may be abnormal sometimes.	R07A08_30.0 07.30.007
GENERAL	Modified IMS configuration parameters for Rogers MBN	R07A08_30.0 07.30.007
GENERAL	For STK authentication requirements, modified the MTU value to 1440.	R07A08_30.0 07.30.007
GENERAL	Solved the problem that there was an extra \r in the NMEA sentence after AT+CFUN=1,1 was executed.	R07A08_30.0 07.30.007
GENERAL	Solved the problem that AT performance port could not work normally after AT+COPS execution.	R07A08_30.0 07.30.007
GENERAL	Fixed the problem that cannot be queried and set normally through AT+ODIS and AT+QLWCFG="hostdevice" .	R07A08_30.0 07.30.007
GENERAL	Fixed the problem that AT+CPOL? could not be used normally on the main serial port.	R07A08_30.0 07.30.007
GENERAL	Optimized the problem of frequent reading and writing of LWM2M EFS.	R07A08_30.0 07.30.007
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 are 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: <ul style="list-style-type: none"> ● AT+QAUDRD ● AT+QAUDPLAY ● AT+QPSND ● AT+QWTTT ● 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+QGPGNMEA="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 AT&T 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.	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 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+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	R07A08_01.0 03.01.003

	content has been read.	
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+QCFG="DIVCTL" to solve the problem of incorrect length of <code>"/nv/item_files/modem/lte/ML1/rx_tuning_chan"</code> .	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	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+QCFG="lte/preferfre" to solve the problem of incorrect value of bandwidth parameter.	R07A08_01.0 02.01.002

MQTT	Optimized 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 AT&T 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+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+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+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 <index> of 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+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+QLTONE .	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+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+QHTTSEND .	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	R07A08_01.0 01.01.001

	sentence is more than 4.	
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+CREG=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 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	<ol style="list-style-type: none"> Controlled SAR on and off through GPIO pins. 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+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+QHHTTPPOST and AT+QHHTTPPUT .	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+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+QCFG="NTP" .	R07A07_01.0 01.01.001
GENERAL	Solved the problem of returned format error when executing 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 the following AT commands:	
	<ul style="list-style-type: none"> ● 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
/	/

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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	QuecLocator 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		

NOTE

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_V6.1

For Linux,

QFirehose Tool: QFirehose_Linux_Android_V1.4.11

USB Driver: Quectel_Linux_USB_Serial_Option_Driver_20220622

Quectel-CM Tool: Quectel_QConnectManager_Linux_V1.6.1

QLog Tool: QLog_Linux_Android_V1.5.16

QMI_WWAN Driver: Quectel_Linux&Android_QMI_WWAN_Driver_V1.2.2

GobiNet Driver: Quectel_Linux&Android_GobiNet_Driver_V1.6.3

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