

# EG25-G-GB Release Notes

## LTE Standard Module Series

Rev. EG25-G-GB\_Firmware\_Release\_Notes\_V0708\_30.007.30.007

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## 1. Preamble

This document provides the Release Notes for EG25-G-GB firmware version **EG25GGBR07A08M2G\_30.007.30.007**. It describes major changes compared to for EG25-G-GB firmware version **EG25GGBR07A08M2G\_30.006.30.006**.

## 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                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| DFOTA         | Added AT command <b>AT+QFOTATIMECFG</b> to set DFOTA expiration time.                                                                                                                                                                                                                                                                                                                                                                  | R07A08_30.0<br>07.30.007 |
| DTMF          | Added <b>AT+QAUDCFG="voltedtmfcfg"</b> to configure local playback time and interval time of VoLTE DTMF.                                                                                                                                                                                                                                                                                                                               | R07A08_30.0<br>07.30.007 |
| FILE          | Added <b>AT+QFMov</b> command to support moving a file.                                                                                                                                                                                                                                                                                                                                                                                | R07A08_30.0<br>07.30.007 |
| NETWORK       | Added <b>AT+QNWCFG="rej_cause_7_mapping"</b> command to control whether to map the network rejection reason value #7.                                                                                                                                                                                                                                                                                                                  | R07A08_30.0<br>07.30.007 |
| SIMCARD       | Added AT command <b>AT+QSIMCFG="disable_physim"</b> to enable or disable SIM card.                                                                                                                                                                                                                                                                                                                                                     | R07A08_30.0<br>07.30.007 |
| WIFI          | Added AT commands <b>AT+QWIFICFG="datarate"</b> and <b>AT+QWIFICFG="traffictransf"</b> to query WIFI rate and traffic respectively.                                                                                                                                                                                                                                                                                                    | R07A08_30.0<br>07.30.007 |
| WIFI          | 1. Added <b>AT+QFILTER="mode"</b> to set the black and white list in WIFI AP mode.<br>2. Added <b>AT+QFILTER="add"</b> to add the filtering addresses of black and white list in WIFI AP mode.<br>3. Added <b>AT+QFILTER="del"</b> to delete the filtering addresses of black and white list in WIFI AP mode.<br>4. Added <b>AT+QFILTER="list"</b> to list the configured filtering addresses of black and white list in WIFI AP mode. | R07A08_30.0<br>07.30.007 |

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|           | 5. Added <b>AT+QTRANSDOMAIN</b> to set domain name conversion.<br>6. Added <b>AT+QFLOWCOUNT</b> to count the uplink and downlink traffic data of WIFI AP.                                                            |                          |
| GENERAL   | Extended <b>AT+QCFG="ledmode"</b> 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<br>07.30.007 |
| GENERAL   | Added <b>AT+QUICKSHUTDOWN</b> command to set the fast shutdown.                                                                                                                                                      | R07A08_30.0<br>07.30.007 |
| GENERAL   | Added <b>AT+QCFG="gatewayset"</b> and <b>AT+QCFG="netmaskset"</b> to set gateway address and subnet mask.                                                                                                            | R07A08_30.0<br>07.30.007 |
| GENERAL   | Supported T-Mobile SIM card (311-882).                                                                                                                                                                               | R07A08_30.0<br>05.30.005 |
| GENERAL   | Supported ES8311 codec driver.                                                                                                                                                                                       | R07A08_30.0<br>05.30.005 |
| NETWORK   | 1. Extended the <b>AT+QOPSCFG="displaybw"</b> command to control whether <b>AT+QOPS</b> displays the bandwidth under LTE.<br>2. Extended the <b>AT+QOPS</b> command to support displaying bandwidth under LTE.       | R07A08_30.0<br>04.30.004 |
| TCP/UDP   | Added the AT command <b>AT+QCFG="TCP/SendMode"</b> to configure TCP sending mode.                                                                                                                                    | R07A08_30.0<br>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<br>04.30.004 |
| AUDIO     | Extended the AT command <b>AT+QCFG="tone/incoming"</b> to support playing the specified ringtone when a call came in.                                                                                                | R07A08_30.0<br>03.30.003 |
| DFOTA     | Added AT command <b>AT+QFOTADL=&lt;url&gt;,"down_to_ufs",&lt;local_file_name&gt;[,&lt;usrname&gt;,&lt;password&gt;]</b> to download the FTP file to local UFS directory.                                             | R07A08_30.0<br>03.30.003 |
| MMS       | Added AT command <b>AT+QCFG="mms_rec_control"</b> to control whether to save the received MMS.                                                                                                                       | R07A08_30.0<br>03.30.003 |
| MQTT      | Added AT command <b>AT+QMTCFG="protocol/check"</b> to configure whether to check MQTT header information.                                                                                                            | R07A08_30.0<br>03.30.003 |
| NETWORK   | Added AT command <b>AT+QCFG="cops_control"</b> to control <b>AT+COPS</b> to scan band, not affecting the band scan of <b>AT+QCFG="nwscanmodeex"</b> .                                                                | R07A08_30.0<br>03.30.003 |
| QuecThing | Supported QuecThing.                                                                                                                                                                                                 | R07A08_30.0<br>03.30.003 |
| SMS       | Extended AT command <b>AT+QCFG="ltesms/format"</b> to send SMS in 3GPP2 format only and receive SMS in 3GPP2 and 3GPP format at the same time.                                                                       | R07A08_30.0<br>03.30.003 |
| UAC       | Supported 16K sampling rate by UAC.                                                                                                                                                                                  | R07A08_30.0<br>03.30.003 |

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| Voice Call     | Added DSCI report in emergency call.                                                                                                 | R07A08_30.0<br>03.30.003 |
| WIFI           | Supported LTE and WIFI coexistence mechanism.                                                                                        | R07A08_30.0<br>03.30.003 |
| GENERAL        | Supported Optus MBN.                                                                                                                 | R07A08_30.0<br>03.30.003 |
| GENERAL        | Extended AT command <b>AT+QCFG="cmux/urcport"</b> to support turning off CMUX port to report URC.                                    | R07A08_30.0<br>03.30.003 |
| GENERAL        | Supported outputting \$PQXMI NMEA sentences, and not outputting \$PQXMI sentences by default.                                        | R07A08_30.0<br>03.30.003 |
| GENERAL        | Added <b>AT+QCFG="usbauto"</b> command to control USB network card to automatically adapt to Windows, Linux, macOS without a driver. | R07A08_30.0<br>03.30.003 |
| GENERAL        | Added AT command <b>AT+QFORMATUSRDATA</b> to format usrdata ubi.                                                                     | R07A08_30.0<br>03.30.003 |
| GENERAL        | Added AT command <b>AT+QCFG="secbootstat"</b> to get whether the secboot is enabled.                                                 | R07A08_30.0<br>03.30.003 |
| GENERAL        | Added AT command <b>AT+QGPSPAI</b> to obtain GNSS positioning assistance information.                                                | R07A08_30.0<br>03.30.003 |
| GENERAL        | Supported Hong Kong Telecom SIM card, with ICCID 8985231 and PLMN 45431.                                                             | R07A08_30.0<br>03.30.003 |
| GENERAL        | Supported STC MBN.                                                                                                                   | R07A08_30.0<br>03.30.003 |
| GENERAL        | Added <b>AT+QCFG="enable_GEA1"</b> to enable GPRS Encryption algorithm GEA/1.                                                        | R07A08_30.0<br>03.30.003 |
| GENERAL        | Supported Rogers MBN.                                                                                                                | R07A08_30.0<br>03.30.003 |
| GENERAL        | Added <b>AT+QCFG="lanip"</b> to modify the range of LAN IP.                                                                          | R07A08_30.0<br>03.30.003 |
| GENERAL        | Supported LGU MBN.                                                                                                                   | R07A08_01.0<br>03.01.003 |
| GENERAL        | Supported RPM configuration for DT MBN.                                                                                              | R07A08_01.0<br>03.01.003 |
| GENERAL        | Added <b>AT+QGSN</b> to get module GSN number and <b>AT+QIMI</b> to get IMEI number.                                                 | R07A08_01.0<br>03.01.003 |
| DTMF           | Added AT command <b>AT+QWDTMF</b> to play DTMF files or send it to Far-end.                                                          | R07A08_01.0<br>03.01.003 |
| GENERAL        | Supported SKT MBN with version 202007071.                                                                                            | R07A08_01.0<br>03.01.003 |
| GENERAL        | Optimized Telstra MBN related configuration.                                                                                         | R07A08_01.0<br>03.01.003 |
| QuecLocator2.0 | Added AT command <b>AT+QLBSCFG="contextid"</b> to configure the QuecLocator context ID.                                              | R07A08_01.0<br>03.01.003 |

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| GENERAL         | Supported USCC MBN.                                                                                                   | R07A08_01.0<br>03.01.003 |
| DFOTA           | Added HTTP DFOTA to parse URL with type of http://user:password@www.baidu.com.                                        | R07A08_01.0<br>02.01.002 |
| GENERAL         | Added AT command <b>AT+QCFG="fast/poweroff"</b> to enable/disable fast power off function.                            | R07A08_01.0<br>02.01.002 |
| NETWORK         | Added AT command <b>AT+QCFG="qoos"</b> to optimize network search power consumption in sleep mode.                    | R07A08_01.0<br>02.01.002 |
| SMS             | Added <b>AT+QCFG="sms_control"</b> to control SMS sending and reception.                                              | R07A08_01.0<br>02.01.002 |
| Voice Call      | Added <b>AT+QCFG="call_control"</b> command to control voice MO and MT functions.                                     | R07A08_01.0<br>02.01.002 |
| TCP SSL         | Added AT command <b>AT+QSSLRECV</b> to read the remaining data.                                                       | R07A08_01.0<br>02.01.002 |
| GENERAL         | Supported to report URC to MCU when thermal mitigate level was up to 3.                                               | R07A08_01.0<br>02.01.002 |
| NETWORK         | Added AT command <b>AT+QEGPAPN</b> to query the actual APN and the configured APN.                                    | R07A08_01.0<br>02.01.002 |
| QuecLocator 2.0 | Added AT command <b>AT+QLBSEX</b> to enter the cell parameter for positioning.                                        | R07A08_01.0<br>02.01.002 |
| MBIM            | Added MBIM function.                                                                                                  | R07A08_01.0<br>02.01.002 |
| NETWORK         | Added the function of preferential registration to the network for the specified LTE band.                            | R07A08_01.0<br>02.01.002 |
| GENERAL         | Imported domestic operators.                                                                                          | R07A08_01.0<br>02.01.002 |
| NETWORK         | Added jamming detection function.                                                                                     | R07A08_01.0<br>02.01.002 |
| Voice Call      | Added AT command <b>AT+QCFG="voice_busytone"</b> to enable/disable busytone playback.                                 | R07A08_01.0<br>02.01.002 |
| GENERAL         | Added class 6 APN for Verizon.                                                                                        | R07A08_01.0<br>02.01.002 |
| TCP SSL         | Added AT command <b>AT+QSSLCFG="alpn"</b> to set SSL alpn.                                                            | R07A08_01.0<br>02.01.002 |
| GENERAL         | Added AT command <b>AT+QCFG="wakepin/level"</b> Set the wake-up pin level and whether to enable the wake-up function. | R07A08_01.0<br>02.01.002 |
| TCP SSL         | Added <b>AT+QSSLCFG="session_cache"</b> command to optimize TCP SSL connection.                                       | R07A08_01.0<br>02.01.002 |
| AUDIO           | Supported recording and playing audio in AMR format.                                                                  | R07A08_01.0<br>02.01.002 |
| GENERAL         | Added AT command <b>AT+QOPS</b> to scan band.                                                                         | R07A08_01.0<br>02.01.002 |
| SIMCARD         | Added AT command <b>AT+QSIMCHK</b> to send UIM_AUTHENTICATE_REQ (UIM authentication).                                 | R07A08_01.0              |

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|                       |                                                                                                                                                                                    | 02.01.002                |
| <b>SIMCARD</b>        | Added AT commands <b>AT+QSIMWRFREQ</b> to record the frequency of EF files written to SIM card and <b>AT+QSIMVOL</b> to configure SIM card supply voltage.                         | R07A08_01.0<br>02.01.002 |
| <b>NETWORK</b>        | Added AT commands <b>AT+QOPSCFG="scancontrol"</b> to configure bands to be scanned under 2G/3G/4G and <b>AT+QOPSCFG="displayrssi"</b> to enable/disable to display RSSI under LTE. | R07A08_01.0<br>02.01.002 |
| <b>FILE</b>           | Added File SFS function.                                                                                                                                                           | R07A08_01.0<br>02.01.002 |
| <b>TCP/UDP</b>        | Added AT command <b>AT+QICFG="tcp/keepalive"</b> to configure whether to enable TCP keepalive function.                                                                            | R07A08_01.0<br>02.01.002 |
| <b>GENERAL</b>        | Added Bluetooth function (SPP, BLE, HFG) and AT command <b>AT+QCFG="spi/set"</b> to write a mark in rawdata to control the initialization of SPI6/UART6.                           | R07A08_01.0<br>02.01.002 |
| <b>WIFI</b>           | Added <b>AT+QWIFICFG="dongle_mac"</b> to get the MAC address connecting to the ECM/RNDIS device.                                                                                   | R07A08_01.0<br>02.01.002 |
| <b>GENERAL</b>        | Supported using <b>AT+CSCS</b> command with no SIM card inserted.                                                                                                                  | R07A08_01.0<br>02.01.002 |
| <b>QuecLocator2.0</b> | Added AT command <b>AT+QLBSCFG="latOrder"</b> .                                                                                                                                    | R07A08_01.0<br>01.01.001 |
| <b>GENERAL</b>        | Added AT command <b>AT+QMBNCFG="list"</b> .                                                                                                                                        | R07A08_01.0<br>01.01.001 |
| <b>TCP/UDP</b>        | Added AT command <b>AT+QCFG="tcp/windowsize"</b> .                                                                                                                                 | R07A08_01.0<br>01.01.001 |
| <b>PPP</b>            | Added AT command <b>AT+QCFG="ppp/sleep_ri"</b> .                                                                                                                                   | R07A08_01.0<br>01.01.001 |
| <b>GENERAL</b>        | Added AT command <b>AT+QCFG="iprulectl"</b> .                                                                                                                                      | R07A08_01.0<br>01.01.001 |
| <b>GENERAL</b>        | Added TF_Spain_VoLTE and TF_Germany_VoLTE MBN.                                                                                                                                     | R07A08_01.0<br>01.01.001 |
| <b>NETWORK</b>        | Added AT command <b>AT+QGPAPN</b> .                                                                                                                                                | R07A08_01.0<br>01.01.001 |
| <b>WIFI</b>           | Added AT command <b>AT+QWIFICFG="version"</b> .                                                                                                                                    | R07A08_01.0<br>01.01.001 |
| <b>NETWORK</b>        | Added AT command <b>AT+QRRCCONSTATE</b> .                                                                                                                                          | R07A08_01.0<br>01.01.001 |
| <b>NETWORK</b>        | Added AT command <b>AT+QICSGPEH</b> .                                                                                                                                              | R07A08_01.0<br>01.01.001 |
| <b>GENERAL</b>        | Supported to report all URC via command <b>AT+QURCCFG="urcport","all"</b> .                                                                                                        | R07A08_01.0<br>01.01.001 |
| <b>DTMF</b>           | Added AT command <b>AT+QVTS</b> .                                                                                                                                                  | R07A08_01.0<br>01.01.001 |
| <b>PPP</b>            | Added AT command <b>AT+QCFG="ppp/v4v6"</b> .                                                                                                                                       | R07A08_01.0<br>01.01.001 |



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| NETWORK    | Added AT command <b>AT+QDISABLERETRY</b> .                                                                                                                                               | R07A08_01.0<br>01.01.001 |
| TCP SSL    | Added command of <b>AT+QSSSEND=0,0</b> to query the cache status of the <b>AT+QSSSEND</b> .                                                                                              | R07A07_01.0<br>02.01.002 |
| GENERAL    | Added AT command <b>AT+QCFG="bip/auth"</b> .                                                                                                                                             | R07A07_01.0<br>02.01.002 |
| GENERAL    | Supported socket data forward and added related AT commands:<br><b>AT+QFWDCLIENT</b> ,<br><b>AT+QFWDSEVER</b> ,<br><b>AT+QFWDCLOSE</b> ,<br><b>AT+QFWDSEND</b> ,<br><b>AT+QFWDRECV</b> . | R07A07_01.0<br>02.01.002 |
| AUDIO      | Added UAC function.                                                                                                                                                                      | R07A07_01.0<br>02.01.002 |
| GENERAL    | Added TUNER function.                                                                                                                                                                    | R07A07_01.0<br>02.01.002 |
| GENERAL    | Added Commercial-DT MBN.                                                                                                                                                                 | R07A07_01.0<br>02.01.002 |
| NETWORK    | Added AT command <b>AT+QCFG="fast_dormancy"</b> .                                                                                                                                        | R07A07_01.0<br>02.01.002 |
| GENERAL    | Added AT command <b>AT+CCHO</b> , <b>AT+CCHC</b> and <b>AT+CGLA</b> .                                                                                                                    | R07A07_01.0<br>02.01.002 |
| GENERAL    | Added URC for fumo pkg checking.                                                                                                                                                         | R07A07_01.0<br>02.01.002 |
| HTTP       | Added the following AT commands:<br><b>AT+QHHTTSEND</b> , <b>AT+QHHTPCFGEX</b> , <b>AT+QHHTTTPUT</b> and<br><b>AT+QHHTTTPUTFILE</b> .                                                    | R07A07_01.0<br>02.01.002 |
| GENERAL    | Added Reliance MBN.                                                                                                                                                                      | R07A07_01.0<br>02.01.002 |
| Voice Call | Added AT commands<br><b>AT+QIMSACT</b> ,<br><b>AT+QDIAL</b> ,<br><b>AT+QCHLDIPMPTY</b> .                                                                                                 | R07A07_01.0<br>01.01.001 |
| Voice Call | Added AT command <b>AT+QECBM</b> only for Verizon.                                                                                                                                       | R07A07_01.0<br>01.01.001 |
| AUDIO      | Added AT command <b>AT+QAUDCFG="nau8810/config"</b> .                                                                                                                                    | R07A05_01.0<br>01.01.001 |
| AUDIO      | Optimized AT command <b>AT+QAUDCFG="encgain"</b> .                                                                                                                                       | R07A04_01.0<br>01.01.001 |



## 4. Improved Features

| Item/Category | Brief Description                                                                                                                            | Since                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| FILE          | Solved the problem that when uploading files by executing <b>AT+QFUPL</b> , the module would restart if the file name contained "\" and "/". | R07A08_30.0<br>07.30.007 |
| HTTP          | Solved the problem that error code 702 was returned at <b>AT+QHTTPPOSTFILE</b> to upload files.                                              | R07A08_30.0<br>07.30.007 |
| HTTP          | Fixed the problem that the module was unstable after receiving RST during HTTPS handshake.                                                   | R07A08_30.0<br>07.30.007 |
| SMS/BT        | Solved the problem that SMS was abnormal after Bluetooth was turned on.                                                                      | R07A08_30.0<br>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<br>07.30.007 |
| TCP SSL       | Solved the problem of SSL server connection failure due to incorrect SSL verification server certificate items.                              | R07A08_30.0<br>07.30.007 |
| Voice Call    | Solved the problem that the previous call number returned by <b>AT+CLIP</b> may be abnormally sometimes.                                     | R07A08_30.0<br>07.30.007 |
| WIFI          | Solved the problem of network priority conflict when WIFI and LTE coexisted.                                                                 | R07A08_30.0<br>07.30.007 |
| GENERAL       | Solved the problem that <b>AT+QGPSCFG="gpsnmeatype"</b> returned an error after MBN was switched.                                            | R07A08_30.0<br>07.30.007 |
| GENERAL       | Optimized Full Reg and Reg Update solutions for Verizon.                                                                                     | R07A08_30.0<br>07.30.007 |
| GENERAL       | Solved the problem that USB DM port may be abnormal sometimes.                                                                               | R07A08_30.0<br>07.30.007 |
| GENERAL       | Modified IMS configuration parameters for Rogers MBN                                                                                         | R07A08_30.0<br>07.30.007 |
| GENERAL       | For STK authentication requirements, modified the MTU value to 1440.                                                                         | R07A08_30.0<br>07.30.007 |
| GENERAL       | Solved the problem that there was an extra \r in the NMEA sentence after <b>AT+CFUN=1,1</b> was executed.                                    | R07A08_30.0<br>07.30.007 |
| GENERAL       | Solved the problem that AT performance port could not work normally after AT+COPS execution.                                                 | R07A08_30.0<br>07.30.007 |
| GENERAL       | Fixed the problem that cannot be queried and set normally through <b>AT+ODIS</b> and <b>AT+QLWCFG="hostdevice"</b> .                         | R07A08_30.0<br>07.30.007 |
| GENERAL       | Fixed the problem that <b>AT+CPOL?</b> could not be used normally on the main serial port.                                                   | R07A08_30.0<br>07.30.007 |
| GENERAL       | Optimized the problem of frequent reading and writing of LWM2M EFS.                                                                          | R07A08_30.0<br>07.30.007 |
| DFOTA         | Solved the problem that error code 502 was reported during DFOTA upgrade.                                                                    | R07A08_30.0<br>06.30.006 |

|         |                                                                                                                                                                                                                              |                          |
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| TCP SSL | Solved the problem of no RI pin pulling when data reported in SSL client transparent transmission mode.                                                                                                                      | R07A08_30.0<br>06.30.006 |
| WIFI    | Updated WIFI firmware.                                                                                                                                                                                                       | R07A08_30.0<br>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<br>06.30.006 |
| GENERAL | Solved the problem of CVE-2021-31698.                                                                                                                                                                                        | R07A08_30.0<br>06.30.006 |
| GENERAL | Set voice centric for Verizon MBN.                                                                                                                                                                                           | R07A08_30.0<br>06.30.006 |
| GENERAL | Modified the attach APN to telstra.internet for Telstra operator.                                                                                                                                                            | R07A08_30.0<br>06.30.006 |
| GENERAL | Set the ROW MBN profile1 to null and profile3 APN name to sos apn name.                                                                                                                                                      | R07A08_30.0<br>06.30.006 |
| DFOTA   | Solved the problem of error code 701 returned in URC after DFOTA HTTPS download failure.                                                                                                                                     | R07A08_30.0<br>05.30.005 |
| GENERAL | Fixed CVE-2021-31698.                                                                                                                                                                                                        | R07A08_30.0<br>05.30.005 |
| GENERAL | Integrated Verizon SUPL Certificates in Verizon MBN.                                                                                                                                                                         | R07A08_30.0<br>05.30.005 |
| GENERAL | Removed the configuration of default MTU 1430 in DCM MBN.                                                                                                                                                                    | R07A08_30.0<br>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<br>04.30.004 |
| GENERAL | Solved the problem that <b>AT+QDAI</b> failed to set long and short frames.                                                                                                                                                  | R07A08_30.0<br>04.30.004 |
| GENERAL | Solved the problem that <b>AT+QCFG="qcautoconnect"</b> could not enable the automatic connection in ECM or RNDIS mode.                                                                                                       | R07A08_30.0<br>04.30.004 |
| GENERAL | Solved the problem that after switching <b>AT+CFUN=0</b> and <b>AT+CFUN=1</b> , the APN type of "atm2mglobal" was changed from IPV4V6 to IPV4 after ATT was activated and the module registered to the network successfully. | R07A08_30.0<br>04.30.004 |
| AUDIO   | Solved the problem that the following commands returned ERROR and CME ERROR at the same time:<br>1. <b>AT+QAUDRD</b><br>2. <b>AT+QAUDPLAY</b><br>3. <b>AT+QPSND</b><br>4. <b>AT+QWTTTS</b><br>5. <b>AT+QLDTMF</b>            | R07A08_30.0<br>03.30.003 |
| AUDIO   | Solved the problem that the ACDB file imported by <b>AT+QACDBLOAD</b> could not take effect.                                                                                                                                 | R07A08_30.0<br>03.30.003 |
| AUDIO   | Solved the problem the audio recording could not work normally after <b>AT+QMIC</b> set gain of MIC.                                                                                                                         | R07A08_30.0<br>03.30.003 |

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| <b>DFOTA</b>      | Supported using the fixed baud rate set before the upgrade during DFOTA upgrade.                                                                                                                               | R07A08_30.0<br>03.30.003 |
| <b>DFOTA</b>      | 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<br>03.30.003 |
| <b>FTP</b>        | Solved the problem of timeout error (error code 609 returned) when executing <b>AT+QFTPOPEN</b> to log in to the FTP(S) server.                                                                                | R07A08_30.0<br>03.30.003 |
| <b>HTTP</b>       | Solved the problem that the module automatically rebooted when <b>AT+QHTTPPOSTFILE</b> sends a POST request to HTTP(S) server through a file larger than 1M.                                                   | R07A08_30.0<br>03.30.003 |
| <b>MQTT</b>       | Solved the problem that the MQTT disconnected when receiving the message with QoS level 2 subscribed successfully.                                                                                             | R07A08_30.0<br>03.30.003 |
| <b>MQTT</b>       | Solved the problem that when <b>AT+QIDEACT</b> was executed immediately after <b>AT+QMTOPEN</b> execution for the first time, +QMTSTAT: 0,2 was reported continuously after <b>AT+QMTOPEN</b> execution again. | R07A08_30.0<br>03.30.003 |
| <b>MQTT</b>       | Solved the problem of failure to connect to some servers caused by the inability to enable MQTT SNI.                                                                                                           | R07A08_30.0<br>03.30.003 |
| <b>NETWORK</b>    | Change the range of SINR value returned by <b>AT+QENG="SERVINGCELL"</b> from (0~250) to (-20~30).                                                                                                              | R07A08_30.0<br>03.30.003 |
| <b>PPP</b>        | Solved the problem that AT port may not work normally after executing <b>AT+CGACT=1,1</b> to activate the first PDP context which has been activated by default again.                                         | R07A08_30.0<br>03.30.003 |
| <b>Voice Call</b> | Solved the problem that there may be no busy tone displayed when the call was hung up after enabling busy tone playing via <b>AT+QCFG="voice_busytone"</b> .                                                   | R07A08_30.0<br>03.30.003 |
| <b>WIFI</b>       | Solved the problem that without SIM card, ECM could not work normally while FC20 was in the WIFI STA mode.                                                                                                     | R07A08_30.0<br>03.30.003 |
| <b>WIFI</b>       | Solved the problem that after setting <b>AT+QWSSIDHEX=1</b> , rebooting the module, 0 was always returned by <b>AT+QWSSIDHEX?</b> .                                                                            | R07A08_30.0<br>03.30.003 |
| <b>WIFI</b>       | Solved the problem that WIFI could not work normally after WIFI SSID was set via <b>AT+QWIFICFG="ssid"</b> .                                                                                                   | R07A08_30.0<br>03.30.003 |
| <b>WIFI</b>       | Solved the problem that IPv6 information could not be returned by <b>AT+QWIFICFG="stainfo"</b> .                                                                                                               | R07A08_30.0<br>03.30.003 |
| <b>GENERAL</b>    | Updated LGU MBN version to 202103101.                                                                                                                                                                          | R07A08_30.0<br>03.30.003 |
| <b>GENERAL</b>    | Fixed the problem that Telus VoLTE could not make VoLTE Call.                                                                                                                                                  | R07A08_30.0<br>03.30.003 |
| <b>GENERAL</b>    | Changed the MCFG_version version of USCC MBN from 0x05040D2 to 0x0504FC40.                                                                                                                                     | R07A08_30.0<br>03.30.003 |
| <b>GENERAL</b>    | Solved the problem that ACDB files could not be obtained by <b>AT+QACDBLOAD?</b> .                                                                                                                             | R07A08_30.0<br>03.30.003 |

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| GENERAL | Changed KDDI configurations below:<br>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<br>03.30.003 |
| GENERAL | For TMO, modified the voipMinSessionExpires to 90.                                                                                                          | R07A08_30.0<br>03.30.003 |
| GENERAL | Solved the problem that the usrd data ubi may be mounted abnormally in a short time after the module was powered off by executing <b>AT+QPOWD=0</b> .       | R07A08_30.0<br>03.30.003 |
| GENERAL | Optimized the jamming detection algorithm to improve the accuracy.                                                                                          | R07A08_30.0<br>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<br>03.30.003 |
| GENERAL | Updated SE13 TABLE date to 2020/12/21.                                                                                                                      | R07A08_30.0<br>03.30.003 |
| GENERAL | Solved the problem that the module could not work normally when executing <b>AT+QGPGNMEA="GSV"</b> after searching for multiple satellites.                 | R07A08_30.0<br>03.30.003 |
| GENERAL | Solved the problem that <b>AT+QCFG="PCMCLK",0</b> could not turn off PCM clock.                                                                             | R07A08_30.0<br>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<br>03.30.003 |
| GENERAL | Modified the third and fourth APN profile for SKT and updated SKT MBN version to 202103121.                                                                 | R07A08_30.0<br>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<br>03.30.003 |
| GENERAL | When peer IP address length was more than 50 chars, silently truncated the string to 50 chars.                                                              | R07A08_30.0<br>03.30.003 |
| GENERAL | Not triggered card power-down if EF-DIR read fails.                                                                                                         | R07A08_30.0<br>03.30.003 |
| GENERAL | Populated file attributes for EST file when card did not return FCP data.                                                                                   | R07A08_30.0<br>03.30.003 |
| GENERAL | No sim E911 call for specific operators should not be blocked.                                                                                              | R07A08_30.0<br>03.30.003 |
| GENERAL | Solved the problem that the Verizon OMA server could not be connected using IPv6.                                                                           | R07A08_30.0<br>03.30.003 |
| GENERAL | Modified the first APN to IPV6 only for TMO.                                                                                                                | R07A08_30.0<br>03.30.003 |
| GENERAL | Solved the problem that the uploaded ATT APN name of Object 11 instance 0 is null.                                                                          | R07A08_30.0<br>03.30.003 |
| GENERAL | Solved the problem URC broadcast could not work normally after enabling CMUX feature.                                                                       | R07A08_30.0<br>03.30.003 |

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| GENERAL | Set the default MTU to 1430 for ATT.                                                                                                                                         | R07A08_30.0<br>03.30.003 |
| GENERAL | Updated Telstra MBN version to 202105192.                                                                                                                                    | R07A08_30.0<br>03.30.003 |
| GENERAL | Modified the configuration of the 2nd profile (IMS) for TMO to change the OVRIDEHOPDP to IPV6.                                                                               | R07A08_30.0<br>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<br>03.30.003 |
| GENERAL | Fixed the problem of incorrect RTC time synchronized from NITZ in some time zones.                                                                                           | R07A08_30.0<br>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<br>03.30.003 |
| GENERAL | Modified 2nd, 3rd, and 4th APN for KT MBN, and updated the KT MBN version to 202106221.                                                                                      | R07A08_30.0<br>03.30.003 |
| GENERAL | Disabled fast dormancy feature for TMO.                                                                                                                                      | R07A08_30.0<br>03.30.003 |
| GENERAL | Updated ROW MBN version number to 202108022.                                                                                                                                 | R07A08_30.0<br>03.30.003 |
| GENERAL | Limited LTE band to B4&B13 for Verizon.                                                                                                                                      | R07A08_30.0<br>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<br>03.01.003 |
| AUDIO   | Optimized <b>AT+QLTONE</b> to play tone.                                                                                                                                     | R07A08_01.0<br>03.01.003 |
| GENERAL | For non-Chinese operators, turned on the AGPS function.                                                                                                                      | R07A08_01.0<br>03.01.003 |
| GENERAL | Solved the problem that pcmclk could not be enabled by <b>AT+QCFG="PCMCLK"</b> .                                                                                             | R07A08_01.0<br>03.01.003 |
| GENERAL | Modified RF parameters to update the CEFS version to "EG25_G", 00011, 202006301.                                                                                             | R07A08_01.0<br>03.01.003 |
| DTMF    | Extended <b>AT+QTONEDT=1</b> to support soft decode feature.                                                                                                                 | R07A08_01.0<br>03.01.003 |
| TCP/UDP | Increased the length of domain name returned by <b>AT+QSSLOPEN</b> from 40 bytes to 256 bytes.                                                                               | R07A08_01.0<br>03.01.003 |
| GENERAL | Updated Telstra MBN version to 202007141.                                                                                                                                    | R07A08_01.0<br>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<br>03.01.003 |
| GENERAL | Updated KT MBN version to 202007211.                                                                                                                                         | R07A08_01.0<br>03.01.003 |
| GENERAL | Solved the problem that the incorrect value (0, indicating that RNDIS is not automatically connected) returned by <b>AT+QCFG="QCAUTOCONNECT"</b> after RNDIS mode was set by | R07A08_01.0<br>03.01.003 |



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| <b>AT+QCFG="usbnet",3.</b> |                                                                                                                                                                                                                                                      |                          |
| <b>TCP SSL</b>             | Solved the problem that memory leak occurred when unilateral and mutual authentication connection with SSL was performed.                                                                                                                            | R07A08_01.0<br>03.01.003 |
| <b>DFOTA</b>               | Solved the problem that DFOTA upgrade failed when special characters included in the HTTP URL.                                                                                                                                                       | R07A08_01.0<br>03.01.003 |
| <b>GENERAL</b>             | Fixed the problem that <b>AT+QWSSIDHEX</b> could not set SSID encoding mode to default text mode.                                                                                                                                                    | R07A08_01.0<br>03.01.003 |
| <b>TCP/UDP</b>             | Extended <b>AT+QICFG="window/scale"</b> to configure TCP Window scale.                                                                                                                                                                               | R07A08_01.0<br>03.01.003 |
| <b>GENERAL</b>             | Solved the problem that the default values of HSDPA returned by <b>AT+QCFG="hsdpacat"</b> and HSUPA returned by <b>AT+QCFG="hsupacat"</b> were incorrect.                                                                                            | R07A08_01.0<br>03.01.003 |
| <b>Voice Call</b>          | Fixed the problem that <b>AT+CPBR</b> could not read emergency calls from SIM card.                                                                                                                                                                  | R07A08_01.0<br>03.01.003 |
| <b>SMS</b>                 | Solved the problem that <b>AT+QCFG="urcport/sms"</b> could not set SMS reporting port to debug port.                                                                                                                                                 | R07A08_01.0<br>03.01.003 |
| <b>WIFI</b>                | Solved the problem that WIF could not connect to the hidden SSID.                                                                                                                                                                                    | R07A08_01.0<br>03.01.003 |
| <b>TCP/UDP</b>             | 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<br>03.01.003 |
| <b>GENERAL</b>             | Solved the problem that after QBI service closed, MBIM could not work normally when it was repeatedly opened or closed.                                                                                                                              | R07A08_01.0<br>03.01.003 |
| <b>SMS</b>                 | Solved the problem that the AT port could not work normally due to the execution of the <b>AT+QCFG="sms/listmsgmap"</b> command.                                                                                                                     | R07A08_01.0<br>03.01.003 |
| <b>FTP</b>                 | Solved the problem that error code 627 returned when data was downloaded discontinuously through FTP.                                                                                                                                                | R07A08_01.0<br>03.01.003 |
| <b>MQTT</b>                | Corrected the response format of <b>AT+QMTUNS=?</b> from +QMTSUB to +QMTUNS.                                                                                                                                                                         | R07A08_01.0<br>03.01.003 |
| <b>FTP</b>                 | Solved the problem that error code 619 may be returned when PUT file via FTP.                                                                                                                                                                        | R07A08_01.0<br>03.01.003 |
| <b>FILE</b>                | Solved the problem that the module may not work when uploading 10K files to the SFS via <b>AT+QFUPL="SFS:10K.txt",10240</b> .                                                                                                                        | R07A08_01.0<br>03.01.003 |
| <b>HTTP</b>                | Solved the problem that after connecting HTTP(S) server successfully with wrong URL and sending GET request through <b>AT+QHTTPGET</b> , executing <b>AT+QHTTPSTOP</b> to cancel HTTP(S) request before URC reported, AT port may not work normally. | R07A08_01.0<br>03.01.003 |
| <b>HTTP</b>                | Solved the problem that an extra +QHTTPURC: "closed" reported when enabling HTTP(S) session closing reporting through <b>AT+QHTTPCFG="closed/ind"</b> .                                                                                              | R07A08_01.0<br>03.01.003 |
| <b>HTTP</b>                | Solved the problem that <b>AT+QHTTPGET</b> may not send the GET request to HTTP(S) server and there may be no timeout occurred.                                                                                                                      | R07A08_01.0<br>03.01.003 |
| <b>GENERAL</b>             | Fixed the deadlock occurred when loading/unloading Mac driver.                                                                                                                                                                                       | R07A08_01.0<br>03.01.003 |
| <b>GENERAL</b>             | Updated goldenbin to QL_FC20_V05 for customer requirement.                                                                                                                                                                                           | R07A08_01.0<br>03.01.003 |

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| TCP/UDP | Solved the problem that after connecting to TCP server through <b>AT+QIOPEN</b> for 60 seconds, the module did not send TCP disconnection wave after <b>AT+QICLOSE</b> was executed.                                                       | R07A08_01.0<br>03.01.003 |
| GENERAL | Disabled VICE feature for Verizon.                                                                                                                                                                                                         | R07A08_01.0<br>03.01.003 |
| GENERAL | Modified the value of voipMinSessionExpires to 90 for Commercial-TMO_VoLTE MBN.                                                                                                                                                            | R07A08_01.0<br>03.01.003 |
| BT      | Solved the problem that some device information could not include in the scan result returned by <b>AT+QBTSCAN</b> .                                                                                                                       | R07A08_01.0<br>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<br>03.01.003 |
| WIFI    | Solved the problems below:<br>1. OK was unexpectedly returned when the password length configured by <b>AT+QWIFICFG="auth"</b> is out of range (greater than 63 bytes).<br>2. The return value of <b>AT+QWIFICFG="auth"</b> was incorrect. | R07A08_01.0<br>03.01.003 |
| TCP SSL | Solved the problem that there was one more empty line on the "cacertex" certificate path returned by <b>AT+QSSLCFG="cacertex"</b> .                                                                                                        | R07A08_01.0<br>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<br>03.01.003 |
| GENERAL | Solved the problem that special character 7bit 0x00f1 could not be displayed.                                                                                                                                                              | R07A08_01.0<br>02.01.002 |
| GENERAL | Updated mmgsdi_se13_table.h.                                                                                                                                                                                                               | R07A08_01.0<br>02.01.002 |
| HTTP    | Optimized the feature of HTTP after enabling rspout/auto.                                                                                                                                                                                  | R07A08_01.0<br>02.01.002 |
| GENERAL | Optimized AT command <b>AT+QCFG="DIVCTL"</b> to solve the problem of incorrect length of <b>"/nv/item_files/modem/lte/ML1/rx_tuning_chan"</b> .                                                                                            | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem of error occurred when executing <b>AT+QFWDCLIENT=1,3,"IP","TCP","220.180.239.212",8007</b> without dialing.                                                                                                            | R07A08_01.0<br>02.01.002 |
| GENERAL | Optimized <b>AT+QGPSCFG="outport","uartdebug"</b> to solve the problem that the GPS URC could not output from debug port.                                                                                                                  | R07A08_01.0<br>02.01.002 |
| GENERAL | Optimized <b>AT+QWWAN</b> command to solve the problem of file storage path error.                                                                                                                                                         | R07A08_01.0<br>02.01.002 |
| GENERAL | Update Telecom MBN version number to 202001161.                                                                                                                                                                                            | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem that WCDMA Band 4 and Band 8 diversity were opened unexpectedly by <b>AT+QCFG="diversity",1</b> .                                                                                                                       | R07A08_01.0<br>02.01.002 |
| GENERAL | Optimized the history call record function.                                                                                                                                                                                                | R07A08_01.0<br>02.01.002 |
| SIMCARD | Enabled FEATURE_MMGSDI_IGNORE_INIT_ERRO configuration to identify invalid SIM card.                                                                                                                                                        | R07A08_01.0<br>02.01.002 |
| MQTT    | Solved the problem that after setting willmessage with a length of 256 bytes through <b>AT+QMTCFG="WILLEX"</b> , willtopic will also be returned after willmessage in URC.                                                                 | R07A08_01.0<br>02.01.002 |



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| WIFI            | Solved the problem of failed to enable WIFI after configuring WIFI dual AP (AP0 + AP1) mode.                                                                                            | R07A08_01.0<br>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<br>02.01.002 |
| Queclocator 2.0 | Modified parameter format for AT commands related to base station positioning locator/LBS 2.0 as <b>AT+QLBSCFG?</b> , <b>AT+QLBSCFG=?</b> and <b>AT+QLBSCFG="token"</b> .               | R07A08_01.0<br>02.01.002 |
| Queclocator 2.0 | Solved the problem that the error code returned incorrectly after executing <b>AT+QLBS</b> .                                                                                            | R07A08_01.0<br>02.01.002 |
| NETWORK         | Optimized <b>AT+QRRCCONSTATE</b> command.                                                                                                                                               | R07A08_01.0<br>02.01.002 |
| FTP             | Optimized FTP upload and download processes.                                                                                                                                            | R07A08_01.0<br>02.01.002 |
| NETWORK         | Optimized <b>AT+QCFG="fast_dormancy"</b> to support fast dormancy mode 3.                                                                                                               | R07A08_01.0<br>02.01.002 |
| NETWORK         | Optimized AT command <b>AT+QCFG="lte/preferfre"</b> to solve the problem of incorrect value of bandwidth parameter.                                                                     | R07A08_01.0<br>02.01.002 |
| MQTT            | Optimized AT command <b>AT+QMT PUBEX</b> 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<br>02.01.002 |
| Voice Call      | Optimized the three-party call function.                                                                                                                                                | R07A08_01.0<br>02.01.002 |
| FTP             | Supported multiple server response parsing in FTP mode.                                                                                                                                 | R07A08_01.0<br>02.01.002 |
| GENERAL         | Solved the problem that the computer could not connect to the network after executing <b>AT+QWWAN=1</b> .                                                                               | R07A08_01.0<br>02.01.002 |
| NETWORK         | Optimized Telecom LTE ONLY IoT card network registration.                                                                                                                               | R07A08_01.0<br>02.01.002 |
| Voice Call      | Reported DSCI when making an emergency call.                                                                                                                                            | R07A08_01.0<br>02.01.002 |
| GENERAL         | Solved the problem of reporting error code 707 (HTTP (S) network open failed) when using <b>AT+QLBS</b> for positioning under AUTO or fixed 4G mobile network.                          | R07A08_01.0<br>02.01.002 |
| GENERAL         | Update ROW MBN version to 201905141.                                                                                                                                                    | R07A08_01.0<br>02.01.002 |
| GENERAL         | Update the ID of Profile5 in VERIZON MBN.                                                                                                                                               | R07A08_01.0<br>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<br>02.01.002 |
| GENERAL         | Optimized <b>AT+QCFG="DISRPLMN"</b> command to support disabling RPLMN and RPLMNACT.                                                                                                    | R07A08_01.0<br>02.01.002 |
| GENERAL         | Extended <b>AT+QFOTADL</b> command to increase DFOTA upgrade path length.                                                                                                               | R07A08_01.0<br>02.01.002 |
| MMS             | Solve the problem that MMS proxy addresses starting with 0 could be set with <b>AT+QMMSCFG="proxy"</b> .                                                                                | R07A08_01.0<br>02.01.002 |

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| FTP     | Solved the problem that the module could not work normally after executing <b>AT+CFUN=0</b> on other AT ports during FTP upload or download.                      | R07A08_01.0<br>02.01.002 |
| GENERAL | Updated reliance MBN version to 202003251.                                                                                                                        | R07A08_01.0<br>02.01.002 |
| TCP/UDP | Solved the problem that after activating PDP, the AT port may not work normally after executing <b>AT+QIDEACT</b> command immediately without response.           | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem of error returned when querying NV553 after activating ATT MBN.                                                                                | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem that the default server port (80) could not be obtained by <b>AT+QLBSCFG?</b> .                                                                | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem that the SMS reporting port could not be set as the debug port by <b>AT+QCFG="urcport/sms"</b> .                                               | R07A08_01.0<br>02.01.002 |
| GENERAL | Updated AT command <b>AT+CGSN</b> to support querying IMEI number and SN number.                                                                                  | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem of incorrect default value of <b>ATX</b> queried by <b>AT&amp;V</b> .                                                                          | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem that the IPV6 domain name address resolved by <b>AT+QIDNSGIP</b> was incorrect.                                                                | R07A08_01.0<br>02.01.002 |
| GENERAL | Update KDDI MBN version to 202004041.                                                                                                                             | R07A08_01.0<br>02.01.002 |
| GENERAL | Updated the SBM MBN version to 202004211.                                                                                                                         | R07A08_01.0<br>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<br>02.01.002 |
| GENERAL | Changed the number of attachment returned by <b>AT+QCFG="siminvalirecovery"</b> from 208 to (0-1).                                                                | R07A08_01.0<br>02.01.002 |
| GENERAL | Changed the range value returned by <b>AT+QDAI=?</b> from (1-4) to (1-6).                                                                                         | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem of an error returned when setting SGMIID by <b>AT+QSGMIIDCFG="config"</b> .                                                                    | R07A08_01.0<br>02.01.002 |
| GENERAL | Updated Verizon MBN version to 202004091.                                                                                                                         | R07A08_01.0<br>02.01.002 |
| MQTT    | Fixed module RI changed but no URC reported when sending data via MQTT protocol.                                                                                  | R07A08_01.0<br>02.01.002 |
| GENERAL | Updated TF_Germany_VoLTE to support VoLTE.                                                                                                                        | R07A08_01.0<br>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<br>02.01.002 |
| GENERAL | Registered to the network with APN1 for CMCC.                                                                                                                     | R07A08_01.0<br>02.01.002 |
| GENERAL | Optimized the <b>AT+QCFG="airplanecontrol"</b> command to support setting QMI not to exit the flight mode when pulling w_disable to low.                          | R07A08_01.0<br>02.01.002 |

|         |                                                                                                                                                          |                          |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| GENERAL | Solved the problem that the local time queried by <b>AT+CCLK</b> was inconsistent with the local time synchronized by <b>AT+CTZU=3</b> from the network. | R07A08_01.0<br>02.01.002 |
| GENERAL | Solved the problem of USB disconnection.                                                                                                                 | R07A08_01.0<br>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<br>02.01.002 |
| GENERAL | Optimized AT command <b>AT+QCFG="ppp/sleep_ri"</b> to solve the problem of no sleep_ri jitter after receiving PPP data.                                  | R07A08_01.0<br>02.01.002 |
| NETWORK | Optimized China Telecom B5 to search frequency 2452 in priority.                                                                                         | R07A08_01.0<br>02.01.002 |
| FILE    | Optimized SFS data resume upload function.                                                                                                               | R07A08_01.0<br>02.01.002 |
| NETWORK | Optimized AT command <b>AT+QNETINFO</b> .                                                                                                                | R07A08_01.0<br>01.01.001 |
| NETWORK | Optimized IMEI backup protection mechanism.                                                                                                              | R07A08_01.0<br>01.01.001 |
| DFOTA   | Improved the feature of DFOTA.                                                                                                                           | R07A08_01.0<br>01.01.001 |
| HTTP    | Changed the number of the parameter <index> of AT command <b>AT+QHHTPCFGEX</b> to be 40 from 12.                                                         | R07A08_01.0<br>01.01.001 |
| NETWORK | Improved the module stability when failed to encode with ANS1.                                                                                           | R07A08_01.0<br>01.01.001 |
| AUDIO   | Solved the problem that two sessions would be opened during a call.                                                                                      | R07A08_01.0<br>01.01.001 |
| NETWORK | Optimized AT command <b>AT+QCOPS</b> to search nearby PLMN information as many as possible.                                                              | R07A08_01.0<br>01.01.001 |
| HTTP    | Updated the encode_buffer size from 1024 to 2048 bytes for supporting long URL.                                                                          | R07A08_01.0<br>01.01.001 |
| ECM     | Solved the problem that the ECM could not be mounted in Linux kernel with later version.                                                                 | R07A08_01.0<br>01.01.001 |
| AUDIO   | Optimized AT command <b>AT+QLTONE</b> .                                                                                                                  | R07A08_01.0<br>01.01.001 |
| GENERAL | Solved the problem that the positioning mode always be 2D after positioning.                                                                             | R07A08_01.0<br>01.01.001 |
| GENERAL | Changed the default value of appid for Verizon of AT command <b>AT+QGPSCFG="appidname"</b> .                                                             | R07A08_01.0<br>01.01.001 |
| AUDIO   | Solved the problem that the AT performance port would not work after executing <b>AT+QRXIIR?</b> .                                                       | R07A08_01.0<br>01.01.001 |
| NETWORK | Updated Verizon MBN.                                                                                                                                     | R07A08_01.0<br>01.01.001 |
| DTMF    | Optimized the feature of DTMF.                                                                                                                           | R07A08_01.0<br>01.01.001 |

|         |                                                                                                                                                                                                                                                                       |                          |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| FTP     | Improved FTP feature under IPv6.                                                                                                                                                                                                                                      | R07A08_01.0<br>01.01.001 |
| HTTP    | Improved HTTP feature under IPv6.                                                                                                                                                                                                                                     | R07A08_01.0<br>01.01.001 |
| AUDIO   | Solved the problem that UAC has no sound during a call.                                                                                                                                                                                                               | R07A08_01.0<br>01.01.001 |
| GENERAL | Solved the problem of USB disconnection.                                                                                                                                                                                                                              | R07A08_01.0<br>01.01.001 |
| TCP SSL | Optimized the reuse logic of SSL session.                                                                                                                                                                                                                             | R07A08_01.0<br>01.01.001 |
| HTTP    | Solved the problem that the file pointer could not be closed normally when sending files with <b>AT+QHTTPSEND</b> .                                                                                                                                                   | R07A08_01.0<br>01.01.001 |
| MQTT    | Optimized the feature of MQTT.                                                                                                                                                                                                                                        | R07A08_01.0<br>01.01.001 |
| TCP SSL | Optimized the feature of SSL.                                                                                                                                                                                                                                         | R07A08_01.0<br>01.01.001 |
| GENERAL | Solved the problem that the first sentence of command <b>AT+QGPSGNMEA="GSV"</b> would be messed if the number of GSV sentence is more than 4.                                                                                                                         | R07A08_01.0<br>01.01.001 |
| GENERAL | Updated TELUS MBN to 0x05800C43.                                                                                                                                                                                                                                      | R07A08_01.0<br>01.01.001 |
| GENERAL | Updated VoLTE-ATT MBN to version 0x0501033C.                                                                                                                                                                                                                          | R07A07_01.0<br>02.01.002 |
| NETWORK | Solved the problem that when executing <b>AT+QCFG="nwscanmode"</b> to fix 2G network in the case of auto registering network, no CREG reporting and no cell information of CGREG reporting after setting <b>AT+CREG=2</b> , <b>AT+CGREG=2</b> and <b>AT+CEREG=2</b> . | R07A07_01.0<br>02.01.002 |
| NETWORK | Solved the problem that there was no LTE result when executing <b>AT+QCOPS=7,0</b> and <b>AT+QCOPS=4,0</b> .                                                                                                                                                          | R07A07_01.0<br>02.01.002 |
| DFOTA   | Solved the problem that the module would reboot and restore repeatedly after DFOTA upgrade.                                                                                                                                                                           | R07A07_01.0<br>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<br>02.01.002 |
| GENERAL | Removed the function of APN Disable/Enable.                                                                                                                                                                                                                           | R07A07_01.0<br>02.01.002 |
| GENERAL | Updated the default address of dmacc to 4g2.vzw.com.                                                                                                                                                                                                                  | R07A07_01.0<br>02.01.002 |
| AUDIO   | Solved the problem of low WB downlink volume.                                                                                                                                                                                                                         | R07A07_01.0<br>02.01.002 |
| AUDIO   | Solved the problem that DTMF playing without sound when answering a call.                                                                                                                                                                                             | R07A07_01.0<br>02.01.002 |
| AUDIO   | Solved the problem that voice over USB feature was not available.                                                                                                                                                                                                     | R07A07_01.0<br>02.01.002 |
| DFOTA   | Solved the problem that the error code and DELTA_UPDATE_CHECK_FILE_FAILED                                                                                                                                                                                             | R07A07_01.0              |

|                |                                                                                                                                                                            |                          |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                | IP_PREVIOUS_UPDATE_FAILED of US VERIZON were not reported after DFOTA upgrade.                                                                                             | 02.01.002                |
| <b>MMS</b>     | Solved the small probability problem that MMS could not be received.                                                                                                       | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Improved the capability of FGI bit20.                                                                                                                                      | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Solved the problem that client could not connect to network after executing <b>AT+QWWAN=1</b> .                                                                            | R07A07_01.0<br>02.01.002 |
| <b>DFOTA</b>   | Optimized DFOTA upgrade.                                                                                                                                                   | R07A07_01.0<br>02.01.002 |
| <b>TCP SSL</b> | Extended the command <b>AT+QSSLCFG="cacertex"</b> to add multiple CA certificates.                                                                                         | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Solved the problem that the partition of usrdta and data would be formatted unexpectedly.                                                                                  | R07A07_01.0<br>02.01.002 |
| <b>MQTT</b>    | Corrected the MSG_ID that reported when MQTT sending message timeout.                                                                                                      | R07A07_01.0<br>02.01.002 |
| <b>DFOTA</b>   | Solved the DFOTA upgrade failure.                                                                                                                                          | R07A07_01.0<br>02.01.002 |
| <b>QMI</b>     | Solved the problem that error occurred after executing command <b>AT\$QCRMCall</b> .                                                                                       | R07A07_01.0<br>02.01.002 |
| <b>NETWORK</b> | Changed the maximum band number to be searched by command <b>AT+QCOPS</b> .                                                                                                | R07A07_01.0<br>02.01.002 |
| <b>TCP/UDP</b> | Supported to report DATA LENGTH within TCPIP URC reported under the buffer mode.                                                                                           | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Optimized GPS performance.                                                                                                                                                 | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | 1. Controlled SAR on and off through GPIO pins.<br>2.Optimized <b>AT+QCFG="sarcfg"</b> to configure SAR power maximum and falling gradient for specific band of LTE/WCDMA. | R07A07_01.0<br>02.01.002 |
| <b>FILE</b>    | Optimized FILE related commands to support one more file type.                                                                                                             | R07A07_01.0<br>02.01.002 |
| <b>DFOTA</b>   | Solved the problem that there was SDCARDSTART and SDCARDEND URC reported unexpectedly when executing <b>AT+QFOTADL</b> .                                                   | R07A07_01.0<br>02.01.002 |
| <b>FTP</b>     | Solved the problem that an error would be reported unexpectedly when the FTP transmission was not continuous.                                                              | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Solved the probability problem that modules rebooting failed when the modem loaded MBN.                                                                                    | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Solved the problem that subcommands <b>AT+QSSLCFG="dtls"</b> and <b>AT+QSSLCFG="dtlsversion"</b> was lacked when executing <b>AT+QSSLCFG=?</b> .                           | R07A07_01.0<br>02.01.002 |
| <b>WIFI</b>    | Solved the problem that WIFI configuration lost after modules rebooted.                                                                                                    | R07A07_01.0<br>02.01.002 |
| <b>GENERAL</b> | Solved the problem that AT command <b>AT+QFWDCLIENT</b> could not link to Qserver successfully.                                                                            | R07A07_01.0<br>02.01.002 |

|         |                                                                                                                                                                                                                     |                          |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| DFOTA   | Fixed the problem of URC message return error during DFOTA upgrade.                                                                                                                                                 | R07A07_01.0<br>02.01.002 |
| GENERAL | Disabled the module to retry SIM card detecting after the UICC card was mismatched.                                                                                                                                 | R07A07_01.0<br>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<br>02.01.002 |
| FTP     | Solved the problem of serial port abnormality while returned ERROR directly after returning CONNECT via commands <b>AT+QFTPPUT</b> , <b>AT+QFTPGET</b> , <b>AT+QFTPLIST</b> and <b>AT+QFTPNLST</b> under PORT mode. | R07A07_01.0<br>02.01.002 |
| HTTP    | Solved the problem of returning +CME ERROR: 702 when executing AT commands <b>AT+QHTTPPOST</b> and <b>AT+QHTTPPUT</b> .                                                                                             | R07A07_01.0<br>02.01.002 |
| GENERAL | Optimized the file system backup restore mechanism.                                                                                                                                                                 | R07A07_01.0<br>02.01.002 |
| NETWORK | Supported WCDMA BAND19 for AT command <b>AT+QCFG="BAND"</b> .                                                                                                                                                       | R07A07_01.0<br>01.01.001 |
| GENERAL | Optimized parameter partition restore mechanism.                                                                                                                                                                    | R07A07_01.0<br>01.01.001 |
| GENERAL | Solved the problem that no response returned or URC for manufacturer when executing <b>AT+CMEE=0</b> .                                                                                                              | R07A07_01.0<br>01.01.001 |
| NTP     | Solved the problem of format error when executing AT command <b>AT+QCFG="NTP"</b> .                                                                                                                                 | R07A07_01.0<br>01.01.001 |
| GENERAL | Solved the problem of returned format error when executing AT command <b>AT+CCLK?</b> .                                                                                                                             | R07A07_01.0<br>01.01.001 |
| GENERAL | Solved the problem that when set the parameter of <b>AT+CTZU</b> to illegal value 2, it would be set and take effect unexpectedly, not fail.                                                                        | R07A07_01.0<br>01.01.001 |
| GENERAL | Set that when the SIM card was locked in PUK2, allowed to execute <b>AT+CPIN=&lt;PUK2&gt;,&lt;new PIN2&gt;</b> to unlock PUK2.                                                                                      | R07A07_01.0<br>01.01.001 |
| TCP/UDP | Supported to report the data length also when TCPIP reporting URC.                                                                                                                                                  | R07A07_01.0<br>01.01.001 |
| GENERAL | Solved the problem that thermal engine isn't working.                                                                                                                                                               | R07A07_01.0<br>01.01.001 |
| GENERAL | Updated the TS25 PLMN list.                                                                                                                                                                                         | R07A07_01.0<br>01.01.001 |
| AUDIO   | Solved the problem of no sound on pcm slave mode.                                                                                                                                                                   | R07A07_01.0<br>01.01.001 |
| AUDIO   | Supported pcm slot to be configurable.                                                                                                                                                                              | R07A07_01.0<br>01.01.001 |
| TCP/UDP | Solved the problem that if TCP half-closed, error returned when executing <b>AT+QISEND=0,0</b> .                                                                                                                    | R07A07_01.0<br>01.01.001 |
| GENERAL | Optimized single image upgrade.                                                                                                                                                                                     | R07A07_01.0<br>01.01.001 |
| DFOTA   | Solved the DFOTA upgrade failure.                                                                                                                                                                                   | R07A07_01.0<br>01.01.001 |



|                |                                                                                                            |                          |
|----------------|------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>MQTT</b>    | Solved the problem that the module could not receive more than 1024 bytes of data sent by the MQTT server. | R07A07_01.0<br>01.01.001 |
| <b>PPP</b>     | Solved the problem that the host could not establish PPP under the GSM network.                            | R07A06_01.0<br>01.01.001 |
| <b>AUDIO</b>   | Fixed the problem that the incoming call has no ringtone.                                                  | R07A06_01.0<br>01.01.001 |
| <b>TCP/UDP</b> | Solved the problem that when established multiple TCP connection, it was abnormally to loop QIRD quickly.  | R07A05_01.0<br>01.01.001 |
| <b>NETWORK</b> | Added cell blacklist function when RRC access failure reached a certain condition.                         | R07A05_01.0<br>01.01.001 |
| <b>GENERAL</b> | Optimized file system protection mechanism.                                                                | R07A05_01.0<br>01.01.001 |
| <b>NETWORK</b> | Solved the issue that scanning flag was not cleared when executing <b>AT+QCOPS</b> returned error.         | R07A04_01.0<br>01.01.001 |
| <b>DFOTA</b>   | Optimized DFOTA process.                                                                                   | R07A04_01.0<br>01.01.001 |
| <b>AUDIO</b>   | Optimized below AT commands<br><b>AT+QAUDCFG="alc5616/dlgain",</b><br><b>AT+QAUDCFG="alc5616/ulgain".</b>  | R07A04_01.0<br>01.01.001 |
| <b>TCP SSL</b> | Modified SSL to support<br>TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384.                                          | R07A04_01.0<br>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 <sup>1)</sup> |
| Y                 | Y          | N                              | N        | N     | Y                | N         | Y                  | Y                  |
| Protocol Function |            |                                |          |       |                  |           |                    |                    |
| QMI               | TCP/UDP    | PPP                            | FTP      | HTTP  | NITZ             | NTP       | TCP SSL            | MMS <sup>2)</sup>  |
| 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 <sup>3)</sup> | ECM      | MBIM  | Dual UART        | TTS       | DTMF <sup>4)</sup> | UAC                |
| Y                 | Y          | Y                              | Y        | Y     | Y                | Y         | Y                  | Y                  |
| RNDIS             | WIFI       | SD                             | LowPower | RMNET | BT <sup>5)</sup> | 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.
- <sup>1)</sup> Supports RAM FILE only.
- <sup>2)</sup> Supports MMS sending only.
- <sup>3)</sup> 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.
- <sup>4)</sup> Supports DTMF decoding only.
- <sup>5)</sup> Supports BLE, 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,

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

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