

EC25-EUX-GA

Release Notes

LTE Standard Module Series

Rev: EC25-EUX-GA_Firmware_Release_Notes_V0819_A0.302.A0.302

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1. Preamble

This document provides the Release Notes for EC25-EUX-GA firmware version **EC25EUXGAR08A19M1G** (Configuration version **A0.302.A0.302**). It describes major changes compared to EC25-EUX-GA firmware version **EC25EUXGAR08A19M1G** (Configuration version **A0.301.A0.301**).

2. Matters Needing Attention

Please strictly adhere to the following matters needing attention.

| SN | Brief Description |
|-----|---|
| [1] | Multiple PDN is not supported by MBIM. |
| [2] | The current firmware version supports Secure Boot and Secure Debugging, and the Quectel signature is included in the security firmware versions by default. Whether Secure Boot is enabled by default when the firmware version is shipped from the factory depends on the OC you select. Secure Debugging is disabled by default and you can enable it with AT commands as required. |
| [3] | The new firmware version cannot be downgraded to versions released before EC25EUXGAR08A13M1G_20.200.20.200, otherwise the module will not be able to work normally. |
| [4] | To extend the service life of flash, it is recommended that the total number of operations related to powering on/off the module, CFUN switching, SIM card hot swapping, dual-SIM switching, or repeated execution of NVM commands should not exceed 30 times per day. |
| [5] | It is not recommended to directly modify the pre-set APN profiles. Please create an APN profile after the existed CID number. Suppose you modify the APN profile of IMS, SOS, etc. with added specific attributes, these attributes are hidden after modification, causing the profile to still be unavailable. |
| [6] | <p>AT+QGDCNT=1 and AT+QPDPGDCNT=1 will write data to the flash. Therefore, please do not execute the AT commands frequently. AT+QAUGDCNT is used in conjunction with the above commands to automatically save the packet data counter.</p> <ol style="list-style-type: none"> If there is no mandatory need, it is not recommended to use these AT commands; The time interval set by the timer needs to be lengthened when you use these AT commands. |
| [7] | Cross-baseline software version update is not supported. For EC25EUXGAR08A19M1G, "R08" represents the baseline information. This Quectel module does not support updating to a firmware version other than R08. If you have any related requirements, please contact Quectel Technical Support. |

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| [8] | During the FOTA upgrade process, it is necessary to ensure the stable power supply of the module. If the power is disconnected during the upgrade, there is a small probability that the flash will be damaged. |
| [9] | It is not recommended to use non-mass production firmware versions for mass production. If necessary, please contact Quectel Technical Support for evaluation to mitigate risks. |
| [10] | Please perform thorough acceptance testing of firmware versions, covering both normal and abnormal scenarios. Please also confirm that the firmware version used in production matches the one that has been tested and accepted. |
| [11] | Please use only the features supported by the module as specified in the product specification and avoid using any unsupported features. For special requirements, please contact Quectel Technical Support for evaluation to mitigate risks. |
| [12] | When performing firmware flashing, ensure that the target firmware version matches the module hardware. Incompatibility may lead to various issues, such as degraded RF performance. |
| [13] | It is strongly recommended to integrate FOTA functionality. |
| [14] | Do not modify the contents of the FOTA upgrade package, recompress it after decompression, or perform other similar operations, because these may lead to upgrade failure. Renaming the FOTA package is currently supported. |
| [15] | Please strictly follow Quectel technical documentation when modifying partitions. If necessary, please contact Quectel Technical Support for evaluation. |

3. New Features

| Item/Category | Brief description | Since |
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| GENERAL | Supported AT+QUSBSPEED to set USB speed. | R08A19_A0.302.A0.302 |
| GENERAL | Added AT+QSIMCFG="disable_profile" to control URC reporting when the profile is disabled. | R08A19_A0.301.A0.301 |
| GENERAL | Added AT+QHTTPSIGN to configure whether to import the private key in the case of mutual authentication. | R08A19_A0.301.A0.301 |
| GENERAL | Added AT+QREDDAVN? to query the REDDA version. | R08A19_A0.300.A0.300 |
| AUDIO | Added the support for loop playback of amr files. | R08A19_A0.200.A0.200 |
| NETWORK | When performing AT+QICSGP to set APN to PAP or CHAP, the module can automatically switch the authentication type in order to register the network. | R08A19_A0.200.A0.200 |
| GENERAL | Added the following command: 1. AT+QSIMCFG="app_type" is used to query the application | R08A19_A0.200.A0.200 |

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| | type; | |
| | 2. AT+QSIMCFG="atr" is used to read the reset response; | |
| | 3. AT+QSIMCFG="eid" is used to query the eSIM ID. | |
| DFOTA | Supported setting the connection and download expiration time of FOTA download through AT+QFOTATIMECFG , and set the time to 600 seconds by default. | R08A18_A0.200.A0.200 |
| DFOTA | Supported downloading the delta package through HTTPS without skipping certificate verification in FOTA. | R08A18_A0.200.A0.200 |
| GENERAL | Added AT+QLEDFUNC to set or query the NET_STATUS and STATUS pins. | R08A18_A0.200.A0.200 |
| NETWORK | Added AT+QCFG="timeupdate" to configure whether the UE time can be updated from the network. | R08A17_A0.200.A0.200 |
| Security | Added Secure Boot and Secure Debugging. | R08A17_A0.200.A0.200 |
| GENERAL | Added AT+QUSBINTERFACE to control fixed USB port number. | R08A17_A0.200.A0.200 |
| SD | Added exFAET to support 128G SD card. | R08A16_20.200.20.200 |
| GENERAL | Supported setting AT+QCFG= "hplmn/search_timer",0 to turn off the LPLMN search timer. | R08A16_20.200.20.200 |
| GENERAL | Added AT+QAUDCFG= "callwaiting/tone" to control the call waiting tone. | R08A16_20.200.20.200 |
| GENERAL | Added AT+QVOLTEDTMFDET to control whether to detect URC reported form DTMF in-band in all networks. | R08A16_20.200.20.200 |
| GENERAL | Added AT+QCFG="LANIP" to query or modify DHCP address pool of the default LAN interface. | R08A16_20.200.20.200 |
| GENERAL | Added AT+QAUDCFG= "alc5616e/dlgain" to adjust the downlink gain for 5616e codec. | R08A16_20.200.20.200 |
| GENERAL | Added AT+QFOTAPKGCFG to set MV or CP mode for moving delta packages used for local upgrade. | R08A16_20.200.20.200 |
| NETWORK | Added Spain_VDF_VOLTE MBN to meet the IMS requirement of operators. | R08A15_20.200.20.200 |
| UAC | Supported UAC to play local ringback tone. | R08A15_20.200.20.200 |
| GENERAL | Added AT+QUARTCFG to configure main UART. | R08A15_20.200.20.200 |
| GENERAL | Added AT+QIMSCFG="qsiipc_enable" to configure URC to report SIP message sent by the network. | R08A15_20.200.20.200 |
| GENERAL | Disabled eDRX in ATTACH and TAU message when RRC SIB did not support eDRX. | R08A15_20.200.20.200 |
| GENERAL | Added AT+QCFG="clat" to enable CLAT. | R08A15_20.200.20.200 |
| GENERAL | Added AT+QNWCFG="reject_cause" to report the rejection reason issued by the network. | R08A15_20.200.20.200 |

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| GENERAL | Supported AT+QCFG="USBAUTO" to configure the host USBnet. | R08A15_20. 200.20.200 |
| GENERAL | Added AT+QMMSCFG="user_agent" and AT+QMMSCFG="x_wap_profile" to configure User-Agent and x-wap-profile respectively. | R08A15_20. 200.20.200 |
| GENERAL | Extended AT+QOPS to support the parameter ABORT to allow the module to be interrupted by external input during network searching. | R08A15_20. 200.20.200 |
| GENERAL | Added Ireland Vodafone MBN. | R08A15_20. 200.20.200 |
| GENERAL | Added the function of automatically downloading XTRA. | R08A14_20. 200.20.200 |
| GENERAL | Added AT+QTELEFONICA to control Telefonica retry mechanism and solved the problem of Telefonica lab certification. | R08A14_20. 200.20.200 |
| NETWORK | Relevant technical controls have been carried out to restrict normal network registration in regions such as RUS and IR, thus ensuring that the module can be used only for civilian applications. | R08A13_20. 200.20.200 |
| GENERAL | Added AT+QGPPPI to obtain positioning analysis data. | R08A13_20. 200.20.200 |
| GENERAL | Supported UK_Vodafone_IOT MBN. | R08A13_20. 200.20.200 |
| GENERAL | Added AT+QIMSCFG="ims_status" to enable IMS URC. | R08A13_20. 200.20.200 |
| GENERAL | The new firmware version cannot be downgraded to previous versions, otherwise the module will not be able to work normally. | R08A13_20. 200.20.200 |
| AUDIO | Supported recording 16K audio files in WAV format. | R08A11_20. 003.20.003 |
| GENERAL | Supported SecBoot. | R08A11_20. 003.20.003 |
| GENERAL | Added AT+QCFG="secbootstat" to get SecBoot status. | R08A11_20. 003.20.003 |
| GENERAL | Extended AT+QCFG="ledmode" : 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. | R08A11_20. 003.20.003 |
| GENERAL | Added the function of fast shutdown triggered by GPIO. | R08A11_20. 003.20.003 |
| HTTP | Added AT+QHTTPCFGEX , and AT+QHTTPCFGEX="send_add" can support the configuration of up to 36 parameters for POST multiple files to the server. | R08A09_20. 003.20.003 |
| NETWORK | Added AT+QNWCFG="rej_cause_7_mapping" to control whether to map the network rejection reason value #7. | R08A09_20. 003.20.003 |
| TCP SSL | Added AT+QSSLOPENEX to support the establishment of SSL connection in a short time. | R08A09_20. 003.20.003 |

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| TCP SSL | Enabled client renegotiation on the module through AT+QSSLCFG="renegotiation" . | R08A09_20.003.20.003 |
| GENERAL | Added AT+QCFG="cmux/flowctrl" to control hardware flow control in CMUX mode. | R08A09_20.003.20.003 |
| GENERAL | In SoftSIM SDK, supported the rollback function if the upgrade fails. | R08A09_20.003.20.003 |
| GENERAL | Added AT+QVOICECFG="enable_srvcc_cap_report" to control the module to report the SRVCC capability in ms_network_cap when 2G and 3G are not supported. | R08A09_20.003.20.003 |
| GENERAL | Added AT+QGPSSNRTEST to test CN of satellite signal. | R08A09_20.003.20.003 |
| AUDIO | Supported saving recording files to SD card. | R08A09_20.002.20.002 |
| TCP/UDP | Added commands below: 1. AT+QICFG="send/auto" to send specified data (heartbeat) regularly. 2. AT+QICFG="recv/ignore" to ignore the specified data (response) received. | R08A09_20.002.20.002 |
| TCP/UDP | Added AT+QCFG="TCP/SendMode" to control when to report SEND OK. | R08A09_20.002.20.002 |
| TCP/UDP | Added AT+QICFG="wakeup/data" to configure the content of the wakeup data packet. | R08A09_20.002.20.002 |
| GENERAL | Enabled Steering of Roaming feature for ROW. | R08A09_20.002.20.002 |
| GENERAL | Supported PA VC7912-61 and VC7916-62. | R08A09_20.002.20.002 |
| GENERAL | Added AT+QCFG="urc/ri/udp" and AT+QCFG="urc/ri/udp_enable" to control the RI of TCP/UDP. | R08A09_20.002.20.002 |
| MQTT | Added AT+QMTCFG="protocol/check" to configure whether to start checking the MQTT header. | R08A08_20.002.20.002 |
| NETWORK | Added AT+QLTENGBR to get LTE neighborhood information. | R08A08_20.002.20.002 |
| TCP SSL | Added AT+QSSLCFG="dtls" to support DTLS function. | R08A08_20.002.20.002 |
| TCP/UDP | Added AT+QICFG="sendpktsize" to set the size of data that can be sent by AT+QISEND . | R08A08_20.002.20.002 |
| GENERAL | Supported Telefonica Retry & Reboot solution. | R08A08_20.002.20.002 |
| GENERAL | Added AT+QWDNS to configure DNS server address. | R08A08_20.002.20.002 |
| GENERAL | Added AT+QCFG="freezeband" to allow/disable bandpref configuration. | R08A08_20.002.20.002 |
| GENERAL | Added AT+QCFG="hardcoded_ecc_list" . | R08A08_20.002.20.002 |

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| NETWORK | Added AT+QCOPSCFG to configure the performance of AT+QCOPS . | R08A08_20.002.20.002 |
| NETWORK | Added to control AT+COPS to scan band, not affecting the band scan of AT+QCFG="nwscanmodeex" . | R08A08_20.002.20.002 |
| NETWORK | Added AT+QCFG="netmaskset" to configure network card subnet mask. | R08A08_20.002.20.002 |
| GENERAL | Supported RDA PA. | R08A07_20.001.20.001 |
| GENERAL | Supported Telefonica MBN. | R08A07_01.001.01.001 |
| FTP | Added AT+QFTPCFG="restenable" to configure whether the support of REST command was required for FTP server. | R08A06_01.001.01.001 |
| Voice Call | Added AT+QCFG="call_control" to configure whether to automatically hang up a voice call. | R08A06_01.001.01.001 |
| FTP | Improved the operation of FTP related commands, optimized FTP server compatibility, and supported the certificate encryption function. | R08A06_01.001.01.001 |
| AUDIO | Supported le9641 slic. | R08A04_01.001.01.001 |
| GENERAL | Added AT+QCFG="defaultdns" to manually configure primary and secondary DNS address for PDP context, and the feature was disabled by default. | R08A04_01.001.01.001 |
| GENERAL | Added AT+QGPSCFG="gnssrawdata",<onoff> to control the output of GNSS raw data. | R08A03_01.001.01.001 |
| NETWORK | Added the feature of priority network registration with specified LTE frequency. | R08A03_01.001.01.001 |
| MBIM | Supported the feature of MBIM. | R08A03_01.001.01.001 |
| NETWORK | Added PDP activation request event, that is the reporting of URC +CGEV: PDN ACT1 after executing AT+CGEREP=1,0 and attaching LTE network. | R08A03_01.001.01.001 |
| GENERAL | Added AT+QCFG="urc_cause_support" to control the reporting of network rejection cause URC. | R08A03_01.001.01.001 |
| SIM Detection | Supported the feature of invalid SIM card detection. | R08A03_01.001.01.001 |
| GENERAL | Added AT+QADCDET to support ADC values periodic detection and report. | R08A03_01.001.01.001 |
| NETWORK | Extended the valid value of <op> of AT+QCFG="fast_dormancy" , the new value 3 means SCRI would be sent out at T323+1 second if there was no PS data transmission in the period of T323 timer. | R08A03_01.001.01.001 |
| NETWORK | Added AT+QCFG="roamserviceex" to disable network card dialing and voice call in roaming state. | R08A03_01.001.01.001 |

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| GENERAL | Added AT+QLOCI . | R08A03_01. 001.01.001 |
| NETWORK | Supported to lock PLMN without inserting a SIM card. | R08A03_01. 001.01.001 |
| AUDIO | Added AT+QCFG="frhrcodec" to control the EFR/HR/FR voice coding method of GSM. | R08A03_01. 001.01.001 |
| GENERAL | Added AT+QCFG="urc/ri/restart" . | R08A03_01. 001.01.001 |
| GENERAL | Added AT+QCFG="sim/poll_time_delay" . | R08A03_01. 001.01.001 |
| UAC | Supported to paly local music with UAC. | R08A03_01. 001.01.001 |
| NETWORK | 1. Added AT+QPDPTRYCFG to configure PDP activation request times and AT+QPDPTRYCHK to check request frequency and report request status via URC. 2.Supported to report URC +CGEV: ME ACT after executing AT\$QCRMCall successfully with +CGEV was enabled by AT+CGEREP under 3G/2G network. | R08A03_01. 001.01.001 |
| GENERAL | Added AT+QRRCCONSTATE . | R08A02_01. 001.01.001 |
| LowPower | Added AT+QCFG="wakeuin/level" . | R08A02_01. 001.01.001 |
| NETWORK | Added AT+QICSGPEH . | R08A02_01. 001.01.001 |
| GENERAL | Added Socket forward feature. | R08A02_01. 001.01.001 |
| HTTP | Added AT+QHTTTPUT and AT+QHTTTPUTFILE in HTTP and added AT+QHTTPCFG="CUSTOM_HEADER" for customers to define HTTP headers for themselves. | R08A02_01. 001.01.001 |
| TCP/UDP | Added AT+QCFG="tcp/windowsize" . | R08A02_01. 001.01.001 |
| GENERAL | Added AT+QCFG="iprulectl" . | R08A02_01. 001.01.001 |
| GENERAL | Solved the probabilistic problem of module instability when executing AT+QMIC? . | R08A02_01. 001.01.001 |
| GENERAL | Supported SGMII feature. | R08A02_01. 001.01.001 |
| GENERAL | Added TW_Mobile_China_VoLTE、Bouygues_France_VoLTE and Telstra-Commercial_VoLTE MBN. | R08A02_01. 001.01.001 |
| FTP | Added commands EPSV/EPRT to match IPv6 FTP. | R08A02_01. 001.01.001 |
| HTTP | Solved the problem of HTTP 400 error when URL is IPv6 IP in IPv6. | R08A02_01. 001.01.001 |

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| GENERAL | Changed the range of return value <io> of AT+QDAI=? to 1-6. | R08A02_01. 001.01.001 |
| GENERAL | Solved the problem that the return value format of AT+QCFG="usbcfg" had no \r\n. | R08A02_01. 001.01.001 |
| GENERAL | Added AT+QCFG="qoos" . | R08A02_01. 001.01.001 |
| GENERAL | Supported VoLTE for Smartfren. | R08A02_01. 001.01.001 |
| Voice Call | Added DSCI report in emergency call. | R08A02_01. 001.01.001 |
| TCP SSL | Added AT+QSSLRCV to read the remaining unread messages. | R08A02_01. 001.01.001 |
| GENERAL | Added AT+QEGPAPN to output the actual APN of the network and the APN that the user set. | R08A02_01. 001.01.001 |
| GENERAL | Added MBN STC_Saudi_VoLTE,0x0501FE01,201912231. | R08A02_01. 001.01.001 |

4. Improved Features

| Item/Category | Brief description | Since |
|----------------|---|--------------------------|
| AUDIO | Optimized the interface for recording downlink tone during calls. | R08A19_A0. 302.A0.302 |
| NETWORK | Optimized the problem of LTE network registration failure when the overseas operator's SIM card does not support IMS voice call. | R08A19_A0. 302.A0.302 |
| GENERAL | Fixed the issue that +CGEV: NW DEACT URC was not reported when the CS domain was rejected in 2G/3G roaming scenarios. | R08A19_A0. 302.A0.302 |
| GENERAL | Removed AT+QADBKEY . To enable ADB feature, you can execute AT+QSECCFG="adb_auth" and AT+QCFG="usbcfg" . | R08A19_A0. 302.A0.302 |
| GENERAL | Fixed the problem that the module with China Telecom SIM card inserted failed to send long text messages when executing AT+QCMGS . | R08A19_A0. 302.A0.302 |
| GENERAL | Fixed the problem that DFOTA upgrade affects ECM configuration in some scenarios. | R08A19_A0. 302.A0.302 |
| GENERAL | Fixed the problem that the configuration of AT+QCFG="USBMODE" could not be saved after the module is rebooted by changing the saved file path. | R08A19_A0. 301.A0.301 |
| DFOTA | Solved the problem that the delta package was not deleted after the FOTA upgrade failure. | R08A19_A0. 300.A0.300 |
| NETWORK | Optimized the abnormal issue of executing AT+CREG to query the network registration status. | R08A19_A0. 300.A0.300 |

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| GENERAL | Solved the module abnormality problem caused by the module LPA downloading profile using the activation code carrying the confirmation code. | R08A19_A0.300.A0.300 |
| GENERAL | Fixed the problem that an error was reported after the following commands were executed: <ul style="list-style-type: none"> ● AT+CCHO ● AT+CGLA ● AT+CCHC | R08A19_A0.300.A0.300 |
| AUDIO | Optimized the problem of local ring back tone playback in multi-party calls. | R08A19_A0.200.A0.200 |
| AUDIO | Optimized the problem that there may be no sound in special scenes for voice over ttyUSB. | R08A19_A0.200.A0.200 |
| NETWORK | Fixed the problem of SMS sending failure after the UK Vodafone IoT card was inserted into the module. | R08A19_A0.200.A0.200 |
| NETWORK | Solved the registration difficulty on the 6175 frequency point for the Rcell operator. | R08A19_A0.200.A0.200 |
| NETWORK | Updated the Bouygues operator policy to set the voice domain preference to Voice centric when the UE initiates an IMSI/GUTI attach request or PND connection request. | R08A19_A0.200.A0.200 |
| GENERAL | Fixed the problem that ERROR was reported after the execution of AT+CGLA due to the SIM card APDU return time being too long. | R08A19_A0.200.A0.200 |
| GENERAL | Updated the maximum value of <totallen> in AT+QESIM="trans" from 65535 to 204800. | R08A19_A0.200.A0.200 |
| GENERAL | Fixed the problem that CAT busy error was reported after eSIM command was used to configure the profile. | R08A19_A0.200.A0.200 |
| GENERAL | Fixed the problem that an error was reported after AT+CCHO execution. | R08A19_A0.200.A0.200 |
| GENERAL | Fixed the problem that the version number reading error occurred by executing AT+QGMR after the sound card was trimmed. | R08A19_A0.200.A0.200 |
| GENERAL | Fixed the failure issue of IPv6 compliance certification #35 test case. | R08A19_A0.200.A0.200 |
| GENERAL | Fixed the problem of small probability abnormality of ATFWDD process. | R08A19_A0.200.A0.200 |
| NETWORK | Fixed the problem that after the called party refused to answer, the caller could only hear the ringback tone, but could not hear the voice prompt sent by the network. | R08A18_A0.200.A0.200 |
| NETWORK | Optimized AT+QOPS to solve the band scanning issue. | R08A18_A0.200.A0.200 |
| MQTT | Solved the problem that when AT+QIDEACT was executed immediately after AT+QMTOPEN execution for the first time, +QMTSTAT: 0,2 was reported continuously after AT+QMTOPEN execution again. | R08A17_A0.200.A0.200 |
| NETWORK | Fixed the problem that the result related to LTE was not returned after AT+QCOPS=7,0 was executed. | R08A17_A0.200.A0.200 |

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| GENERAL | Solves the problem of abnormal SIM card recognition caused by module deleting SIMLock configuration file after Secure Boot was enabled. | R08A17_A0. 200.A0.200 |
| GENERAL | Removed support on AT+QIOT related commands. | R08A17_A0. 200.A0.200 |
| GENERAL | Upgraded the version of cURL to 7.42.0, the version of Dnsmasq to 2.89, and the version of Expat to 2.5.0. | R08A17_A0. 200.A0.200 |
| GENERAL | Supported modifying module DHCP server configuration via AT+QWDHCP . | R08A17_A0. 200.A0.200 |
| GENERAL | Fixed the problem that Error: 100 was returned after AT+CHLD=1x was executed. | R08A17_A0. 200.A0.200 |
| NETWORK | Solved the problem that when there was no CDMA network around, the module could not register on the network after the module was configured as Voice Centric and China Telecom card which did not support voice was inserted. | R08A17_20. 200.20.200 |
| SMS | Solved the problem of abnormal SMS sending in 2G network. | R08A17_20. 200.20.200 |
| GENERAL | Fixed the timing disparity issue between AT command XTRA injection and API XTRA injection. | R08A17_20. 200.20.200 |
| GENERAL | Fixed the problem that AT+CNUM did not get the number after the number was written and the module was rebooted. | R08A17_20. 200.20.200 |
| AUDIO | Fixed the problem that there was no network ring back tone in special scenes in UAC. | R08A16_20. 200.20.200 |
| AUDIO | Fixed the problem that the module could not enter sleep after software decoding was enabled. | R08A16_20. 200.20.200 |
| NETWORK | GEA1 and GEA2 were disabled, and GEA3 was enabled by default. | R08A16_20. 200.20.200 |
| NETWORK | For the Vodafone operator, GEA1 and GEA2 were disabled, and GEA3 and GEA4 were enabled by default. | R08A16_20. 200.20.200 |
| TCP SSL | Fixed the problem that data may be lost in case of retransmission when data was sent in SSL connection. | R08A16_20. 200.20.200 |
| GENERAL | Fixed the problem that eSIM returned 6A88 during some eSIM LPA usage. | R08A16_20. 200.20.200 |
| GENERAL | Fixed the problem of failure to send SMS in 3G network by selecting CS preference or PS preference through AT+CGSMS . | R08A16_20. 200.20.200 |
| GENERAL | Fixed the problem that the module did not report QMICTL_REVOKE_CLIENT_ID_IND, resulting in the RIL library not updating the dialing status. | R08A16_20. 200.20.200 |
| GENERAL | Fixed the problem that modem manager reported an error SIM missing in low power mode. | R08A16_20. 200.20.200 |
| AUDIO | Fixed the problem that there was no sound when Codec 5616e playing. | R08A15_20. 200.20.200 |
| GENERAL | Fixed the problem that error code 730 may be returned in a possibility after AT+QLBS was executed. | R08A15_20. 200.20.200 |

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| SMS | Fixed the problem of failure to send SMS in 3G network by selecting CS preference or PS preference through AT+CGSMS . | R08A15_20. 200.20.200 |
| SMS | Added the function of receiving CMAS broadcast SMS. | R08A15_20. 200.20.200 |
| SMTP | Modified the format of the "To" and "CC" fields in the mail header to conform to the RFC 5322 standard. | R08A15_20. 200.20.200 |
| GENERAL | Fixed the problem of network searching was limited due to the lack of EFACC files of some SIM cards. | R08A15_20. 200.20.200 |
| GENERAL | Restored AT+QLWCFG="startup" to configure the startup mode of LwM2M client. | R08A15_20. 200.20.200 |
| GENERAL | <ol style="list-style-type: none"> Fixed the problem that GALILEO satellite could not be obtained in the United States. Fixed the problem that QZSS could not be used for positioning after AT+QGPSCFG="gnssconfig" was executed. | R08A15_20. 200.20.200 |
| GENERAL | <ol style="list-style-type: none"> Fixed the module exception occurred after AT+QGPSCFG="nmeasrc",1 was executed. Fixed the module exception caused by frequent opening and closing of GPS. | R08A15_20. 200.20.200 |
| GENERAL | Fixed the problem that \r\n was missing in the return value after inputting AT+QCFG="bootup", wlan-services, 2 . | R08A15_20. 200.20.200 |
| GENERAL | Optimized the problem the obtained positioning information was incorrect after waking up from sleep. | R08A15_20. 200.20.200 |
| GENERAL | Fixed the problem that AT+QIDNSCFG failed to set IPv6 DNS. | R08A15_20. 200.20.200 |
| CMUX | Optimized CMUX channel. | R08A14_20. 200.20.200 |
| HTTP | Fixed the problem that the URC was not returned after executing AT+QHTTPPOST expired. | R08A14_20. 200.20.200 |
| GENERAL | Optimized the problem related to throughput. | R08A14_20. 200.20.200 |
| GENERAL | Updated the third APN in Telefonica MBN to SOS. | R08A14_20. 200.20.200 |
| GENERAL | Solved the problem that CREG URC did not report. | R08A14_20. 200.20.200 |
| GENERAL | Solved the problem that the configuration of AT+QCFG="call_control" was not saved after the module was rebooted. | R08A14_20. 200.20.200 |
| CMUX | Fixed the problem that channel four could not work normally after four CMUX virtual ports were enabled. | R08A13_20. 200.20.200 |
| HTTPS | Fixed the problem of error code 702 reported in low probability when HTTPS file uploaded. | R08A13_20. 200.20.200 |
| NETWORK | Fixed the problem that BSIC of the 2G frequency point scanned by AT+QOPS was empty. | R08A13_20. 200.20.200 |

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| NETWORK | Fixed the problem that the module could not camp on the network normally when AT+QICSGP set repeated parameters. | R08A13_20. 200.20.200 |
| SMTP | Solved the problem of slow data sending of SMTP. | R08A13_20. 200.20.200 |
| SMTP | Fixed the problem that SMTP could not properly close the attachment file descriptor after sending UFS attachments of certain sizes, causing USB subsequent uploads to UFS to report error 423. | R08A13_20. 200.20.200 |
| Voice Call | Solved the problem of system instability during the dialing process. | R08A13_20. 200.20.200 |
| GENERAL | Solved the problem that AT+QCSQ returned a positive number (expect a negative value). | R08A13_20. 200.20.200 |
| GENERAL | Modified the format of AT+EGMR=0,8 . | R08A13_20. 200.20.200 |
| GENERAL | Fixed the problem that the return value was abnormal when AT+QFLST queried. | R08A13_20. 200.20.200 |
| GENERAL | Resolved the problem of handshake failure caused by abnormal handshake time set by DTLS. | R08A13_20. 200.20.200 |
| GENERAL | Fixed the problem that MQTT pingreq packets would still be sent after executing AT+QMTCFG="keepalive",0 . | R08A13_20. 200.20.200 |
| GENERAL | Fixed the problem that the URC of +QMTRECV could not be reported. | R08A13_20. 200.20.200 |
| FILE | Solved the problem of system instability caused by using AT+QFUPL to upload files whose file name or path contained "/". | R08A11_20. 003.20.003 |
| FILE | Solved the problem that files stored in SFS were lost after AT+QFDEL="SFS:*" was executed. | R08A11_20. 003.20.003 |
| HTTPS | Fixed the problem that the module was unstable after receiving RST during HTTPS handshake. | R08A11_20. 003.20.003 |
| NETWORK | Fixed the problem that the network icon displayed abnormally under GSM. | R08A11_20. 003.20.003 |
| SMS | Updated Telefonica Spain_VoLTE MBN to configure SMS over IMS. | R08A11_20. 003.20.003 |
| SMS | Fixed the problem that the received SMS was not stored in ME space restored by AT&F. | R08A11_20. 003.20.003 |
| SMTP | Optimized the recipients display of SMTP, and fixed the problem that more contacts cannot be viewed in the content of sent emails. | R08A11_20. 003.20.003 |
| Voice Call | Solved the problem that the previous call number returned by AT+CLIP may be abnormally sometimes. | R08A11_20. 003.20.003 |
| Voice Call | Solved the problem that the system was unstable during the process of making calls. | R08A11_20. 003.20.003 |
| GENERAL | Solved the problem that TF_Spain_VoLTE MBN could not be activated normally after auto-select MBN was enabled and TF_Spain card was inserted. | R08A11_20. 003.20.003 |
| GENERAL | Update the Telstra MBN version to set the first APN to NULL. | R08A11_20. 003.20.003 |

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| GENERAL | Solved the problem that executing AT+QISEND ending with character "\r\n" would cause the server to receive data abnormally. | R08A11_20.003.20.003 |
| DFOTA | Solved the problem of cefs partition backup failure due to power down during DFOTA upgrade. | R08A09_20.003.20.003 |
| DTMF | Modified to support sending a maximum of 32 tones at DTMF sending. | R08A09_20.003.20.003 |
| SMS | Solved the problem that the response format was incorrect when an error returned by AT+CMGL=4 to read a SMS. | R08A09_20.003.20.003 |
| GENERAL | Solved the problem that the call could not be made when the Unifi operator card was used. | R08A09_20.003.20.003 |
| GENERAL | Solved the problem that the module worked unstably at Telefonica certification. | R08A09_20.003.20.003 |
| GENERAL | Solved the problem of CVE-2021-3169. | R08A09_20.003.20.003 |
| GENERAL | Set the ROW MBN profile1 to null and profile3 APN name to SOS | R08A09_20.003.20.003 |
| GENERAL | Fixed the problem that the dual serial port function may fail to be enabled. | R08A09_20.003.20.003 |
| GENERAL | Modified the AT+QCFG="USBCFG" setting to take effect immediately. | R08A09_20.002.20.002 |
| GENERAL | Solved the problem that the traffic statistics data obtained by AT+QGDCNT may be inaccurate sometimes. | R08A09_20.002.20.002 |
| DFOTA | Solved the problem that error codes (502) may be reported when resuming upgrade after power-down during DFOTA upgrade. | R08A09_20.002.20.002 |
| MQTT | Solved the problem of MQTT connection failure. | R08A09_20.002.20.002 |
| NETWORK | Solved the problem that there was no network registration status reported at AT+CFUN=0 execution after AT+CREG/AT+CGREG/AT+CEREG was set to report network registration status actively. | R08A09_20.002.20.002 |
| NETWORK | Solved the problem of SIM card with type of ecall_only_mode not registered to the network. | R08A09_20.002.20.002 |
| RMNET | Solved the problem that the module could not receive data after setting up a UDP server after NDIS dialing. | R08A09_20.002.20.002 |
| TCP/UDP | Solved the problem that Modem would discard the TCP data packet sent by the server when window scale was 14. | R08A09_20.002.20.002 |
| TCP/UDP | Fixed the problem of the incorrect IP address returned by AT+QIACCEPT . | R08A09_20.002.20.002 |
| TCP SSL | Fixed the problem of system instability caused by the use of ALPN in SSL. | R08A09_20.002.20.002 |
| TCP SSL | Added SSL cipher suite, and deleted invalid suite. | R08A09_20.002.20.002 |
| GENERAL | Solved the failure of eUICC use case 27.22.7.2.2. | R08A09_20.002.20.002 |

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| AUDIO | 1. Support playing MP3 single-channel and dual-channel files. 2. Optimized the fast switching between AT+QAUDPLAY (to play the audio) and AT+QAUDSTOP (to stop audio play). | R08A08_20.002.20.002 |
| DFOTA | Solved the problem of DFOTA upgrade failure caused by URL containing special characters. | R08A08_20.002.20.002 |
| HTTP | Solved the AT+QHTTPREAD failed to read HTTP(S) server response information. | R08A08_20.002.20.002 |
| MQTT | Fixed the problem of module instability caused by failure of two-way authentication using SSL. | R08A08_20.002.20.002 |
| NETWORK | Solved the problem that after the module searched the network successfully, and AT+CREG/AT+CGREG/AT+CEREG set automatically reporting network registration status, there was no network registration status reported after executing AT+CFUN=4/AT+CFUN=1 to deactivate network. | R08A08_20.002.20.002 |
| PPP | Solved the problem that PPP may disconnect under certain scenarios. | R08A08_20.002.20.002 |
| TCP SSL | Improved the stability of the module when TCP SSL was multiplexed at the same time. | R08A08_20.002.20.002 |
| TCP SSL | Solved the problem of incorrect data sending status returned by AT+QSSSEND=<clientID>,0 . | R08A08_20.002.20.002 |
| TCP UDP | Solved the problem that after TCP connection was established through debug port, incorrect socket connection port was returned by AT+QISTATE . (the connection port should be uart2.) | R08A08_20.002.20.002 |
| TCP/UDP | Solved the problem that the context type from IPv4v6 to IPv4 configured by AT+QICSGP did not take effect. | R08A08_20.002.20.002 |
| TCP/UDP | Solve the problem of abnormal UDP IPV6 address. | R08A08_20.002.20.002 |
| GENERAL | Solved the problem of invalid value returned by AT+QCSQ caused by the delay in RSSI reporting. | R08A08_20.002.20.002 |
| GENERAL | Updated SE13 TABLE date to 2020/12/21. | R08A08_20.002.20.002 |
| GENERAL | Not triggered re-search the network by the module under the registered status when AT+QPDPTRYCFG disabled F1-F4 timer. | R08A08_20.002.20.002 |
| GENERAL | When peer IP address length was more than 50 chars, silently truncated the string to 50 chars. | R08A08_20.002.20.002 |
| GENERAL | Not triggered card power-down if EF-DIR read fails. | R08A08_20.002.20.002 |
| GENERAL | Populated file attributes for EST file when card did not return FCP data. | R08A08_20.002.20.002 |
| GENERAL | No sim E911 call for specific operators should not be blocked. | R08A08_20.002.20.002 |
| GENERAL | Updated Telstra-Commercial_VoLTE MBN version to 202105192. | R08A08_20.002.20.002 |

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| GENERAL | Supported VC7912-61 and VC7912-62. | R08A08_20.002.20.002 |
| GENERAL | Solved the problem that the positioning method returned by AT+QGPSLOC was inconsistent with GPGSA. | R08A08_20.002.20.002 |
| GENERAL | Solved the problem of the incorrect results returned by AT+QTELEFONICA="retry_schema" . | R08A08_20.002.20.002 |
| GENERAL | Updated VF_Germany_VoLTE MBN version to 202106171. | R08A08_20.002.20.002 |
| GENERAL | Optimized RDA PA. | R08A07_20.002.20.002 |
| DFOTA | Supported using the fixed baud rate set before upgrade during DFOTA upgrade. | R08A07_01.001.01.001 |
| FILE | Solved the problem that after the encrypted SFS file uploaded to FTP server was decrypted abnormally. | R08A07_01.001.01.001 |
| MQTT | Solved the problem that the MQTT disconnected when receiving the message with QoS level 2 subscribed successfully. | R08A07_01.001.01.001 |
| MBIM | Solved the problem that Host could not obtain the IP from MBIM if the network only allocated IP without DNS address. | R08A07_01.001.01.001 |
| GENERAL | Supported VoLTE for Smartfren MBN and updated Smartfren MBN version to 'Commercial-Smartfren',0x0501250A,202012291. | R08A07_01.001.01.001 |
| GENERAL | Solved the problem that an empty menu list was obtained by AT+QSTKGI=37 . | R08A07_01.001.01.001 |
| FTP | Solve the probabilistic problem of download failure when performing Resuming point downloads. | R08A06_01.001.01.001 |
| MQTT | Corrected the return value of AT+QMTUNS=? from +QMTSUB to +QMTUNS. | R08A06_01.001.01.001 |
| FTP | Solved the problem of occasional failure when uploading files with FTP service. | R08A06_01.001.01.001 |
| HTTP | Solved the problem that AT port did not return response after executing AT+QHTTPSTOP during handshaking procedure when connecting to HTTPS server. | R08A06_01.001.01.001 |
| GENERAL | Solved the problem that APN configured by AT+QLBSCFG="contextid" could not take effect. | R08A06_01.001.01.001 |
| HTTP | Solved the problem that the URC +QHTTPURC: "closed" was reported twice unexpectedly after executing AT+QHTTPCFG="closed/ind",1 to enable the reporting of HTTP(S) session closing indication. | R08A06_01.001.01.001 |
| HTTP | Solved the low probability problem that the GET request would fail after performing HTTP(s) one-way authentication. | R08A06_01.001.01.001 |
| GENERAL | Improved the module stability when loading or unloading MAC driver. | R08A06_01.001.01.001 |
| GENERAL | Solved the problem that jammed was reported unexpectedly under the premise of weak signal or setting the rejection reason value when the interference protection feature was not turned on. | R08A06_01.001.01.001 |

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| GENERAL | Optimized interference protection features under WCDMA by adding anti-jitter feature. | R08A06_01. 001.01.001 |
| GENERAL | Solved the problem that modem part of the module kept restarting when activating Smartfren MBN. | R08A06_01. 001.01.001 |
| HTTP | Solved the problem that 702 error was reported when reading response sent from the server after sending a PUT request in a packet format through the serial port. | R08A06_01. 001.01.001 |
| GENERAL | Changed the mapping relations among hardware PIN143,144 and GPIO52,53. | R08A06_01. 001.01.001 |
| GENERAL | Optimized jamming detection algorithm in GSM mode. | R08A06_01. 001.01.001 |
| AUDIO | Solved the problem that the failure URC could not be reported immediately when the playback was interrupted after executing AT+QLTONE to play the tone repeatedly. | R08A06_01. 001.01.001 |
| GENERAL | Solved the problem of serial port blocking caused by executing AT+CGACT=1,1 to re-activate the first context that was already activated by default. | R08A06_01. 001.01.001 |
| AUDIO | Solved the problem that no uac_fs and uac_music were returned by AT+QAUDCFG=? . | R08A06_01. 001.01.001 |
| GENERAL | Optimized AT+QPOWD=0 to fast shut down the module. | R08A06_01. 001.01.001 |
| GENERAL | Solved the problem that the module could not work normally due to executing AT+QACDBREAD to read ACDB files in the AP/modem side. | R08A06_01. 001.01.001 |
| GENERAL | Updated the time of SE13 TABLE to 2020/08/31. | R08A06_01. 001.01.001 |
| GENERAL | Optimized the ubi read-write partition mounting and exception handling mechanism. | R08A06_01. 001.01.001 |
| FTP | Solved the probabilistic problem of no response or reporting error code during the process of FTP uploading or downloading. | R08A05_01. 001.01.001 |
| NETWORK | Supported to automatically trigger network search procedure after the RPM feature was disabled. | R08A05_01. 001.01.001 |
| NETWORK | Improved RPM registration procedure to solve the problem that the registration request cannot be initiated again when the number of re-initiated registration requests for the specified PDN rejection reason reaches the maximum value within the specified timeout value. | R08A05_01. 001.01.001 |
| GENERAL | Solved the problem that the returned DNS address characters of AT+QCFG="defaultdns" and AT+CGCONTRDP were in reverse order after setting DNS address with AT+QCFG="defaultdns",1,<dns1> . | R08A05_01. 001.01.001 |
| SMS | Solved the problem that the default value of ME and MT storage space queried by AT+CPMS="ME","SM","MT" was 23 instead of 255. | R08A04_01. 001.01.001 |

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| GENERAL | Solved the problem that executing AT+QURCCFG="URCPORT","all" in CMUX mode to set the CMUX port and USB port as URC output ports did not take effect. | R08A04_01. 001.01.001 |
| GENERAL | Updated Telstra MBN version to 202007141. | R08A04_01. 001.01.001 |
| AUDIO | Optimized the dialing process during call waiting. | R08A04_01. 001.01.001 |
| AUDIO | Solved the problem that AT+QSLIC=1,1 did not take effect after enabling SLIC with AT+QSLIC=1,1 and then disabling SLIC with AT+QSLIC=0,1 . | R08A04_01. 001.01.001 |
| GENERAL | Solved the problem that the MBN list queried by AT+QMBNCFG="list" was empty after executing AT+QMULTIMBN="reload" and restarting the module. | R08A04_01. 001.01.001 |
| HTTP | Optimized the feature of HTTP after enabling rspout/auto. | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem that no data was outputted from NMEA port after USB plugging. | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem that the return value of AT+QCFG=? executed via UART port was incomplete. | R08A03_01. 001.01.001 |
| GENERAL | Merged the Qualcomm patch MDM9607.LE.2.0 Post-CS 0.0.015.1a. | R08A03_01. 001.01.001 |
| GENERAL | Extended the supported size of AT command to 2K. | R08A03_01. 001.01.001 |
| GENERAL | Improved the stability of the connection between the module client and Qserver. | R08A03_01. 001.01.001 |
| AUDIO | Solved the problem that the codec would be re-initialized after executing AT commands related to Audio. | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem that no data but OK was returned after executing AT+QEEC? . | R08A03_01. 001.01.001 |
| AUDIO | Optimized AT+QPSND=0 . | R08A03_01. 001.01.001 |
| MQTT | Improved the MQTT stability during large data transmitting. | R08A03_01. 001.01.001 |
| NETWORK | Remained the previous configuration after configuring LTE with AT+QCFG="band",0,0,0 . | R08A03_01. 001.01.001 |
| GENERAL | Improved the Jamming Detection feature. | R08A03_01. 001.01.001 |
| GENERAL | Optimized the EDRX feature and disabled it by default. | R08A03_01. 001.01.001 |
| GENERAL | Corrected the valid value of the parameter of AT+QGPSCFG="dpoenable" to (0-2). | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem that wrong error code was reported after reaching the timeout configured by AT+QLBSCFG="timeout" when positioning. | R08A03_01. 001.01.001 |

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| GENERAL | Changed the returned vlaue format of token after executing AT+QLBSCFG? , AT+QLBSCFG=? and AT+QLBSCFG="token" . | R08A03_01. 001.01.001 |
| NETWORK | Optimized AT+QRRCCONSTATE . | R08A03_01. 001.01.001 |
| TCP SSL | Ignored the verification of multi-level certificate chain by default in embedded SSL protocol. | R08A03_01. 001.01.001 |
| SMS | Solved the problem that the SMS center address did not change to the corresponding operators after switching SIM card when the SIM card hot-plug was enabled. | R08A03_01. 001.01.001 |
| MQTT | Solved the problem that the extra characteristics of willtopic would be outputted at the end of the data string when executing AT+QMTCFG="willex" to read 256 bytes data. | R08A03_01. 001.01.001 |
| NETWORK | Solved the problem that AT+QCFG="DISRPLMN" only could close RPLMNACT but could not close RPLMN. | R08A03_01. 001.01.001 |
| GENERAL | Solve the problem that client could not connect to network after executing AT+QWWAN=1 . | R08A03_01. 001.01.001 |
| GENERAL | Modified the "uar1" of the return value +QFWD CFG: "urc",<socketID>,"uar1","usbat","usbmodem") after executing AT+QFWD CFG=? to "uart1". | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem that the 7bit_alphabet data could not be printed correctly. | R08A03_01. 001.01.001 |
| GENERAL | Supported to record or play the audio file in AMR format. | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem that no value returned when querying the parameter that was greater than 512 bytes with AT+QEEC? . | R08A03_01. 001.01.001 |
| GENERAL | Changed usage to 01 (data sentric) in Reliance MBN. | R08A03_01. 001.01.001 |
| HTTP | Optimized AT+QFWDHTTP to extend the maximum length of the URL to 1024 bytes and support timeout configuring and returning HTTP response codes after timeout. | R08A03_01. 001.01.001 |
| MMS | Optimized AT+QMMSCFG="proxy" to support the MMS agent address starting with "0". | R08A03_01. 001.01.001 |
| DTMF | Added a parameter for AT+QWDTMF to configure the stop playing interval. | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem of unexpectedly ESM reporting after disabling rejection code reporting or configuring no ESM reporting with AT+QCFG="urc_cause_support" . | R08A03_01. 001.01.001 |
| DFOTA | Solved the problem that 502 and 520 error would be occurred unexpectedly caused by poweroff and rebooting when DFOTA upgrades to 90%-100%. | R08A03_01. 001.01.001 |
| GENERAL | Solved the problem of incorrect data output via NMEA port. | R08A03_01. 001.01.001 |
| GENERAL | Optimized the USB suspend and resume logic. | R08A03_01. 001.01.001 |

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| ECM | Solved the problem that the ECM device could not obtain the IP address when the device was started for the first time. | R08A03_01.001.01.001 |
| DTMF | Solved the problem that illegal letters would be saved successfully instead of error reporting when configuring parameters with AT+QTONEDT . | R08A03_01.001.01.001 |
| RNDIS | Solved the problem that an error would occur when executing AT+QCFG="qcautoconnect" to query configuration. | R08A03_01.001.01.001 |
| DTMF | Modified the valid value range of both <duration> and <pause> of AT+QWDTMF to 55-1000. | R08A03_01.001.01.001 |
| LowPower | Solved the problem that AT+QCFG="wakepin/level",1,1 could not take effect, the main UART and modem could not enter into sleep mode. | R08A03_01.001.01.001 |
| GENERAL | Solved the problem that the AP side URC could not be output from the specified port. | R08A03_01.001.01.001 |
| DFOTA | Optimized DFOTA upgrade process. | R08A02_01.001.01.001 |
| MQTT | Optimized module stability when sending data of 0 byte after connecting MQTT. | R08A02_01.001.01.001 |
| GENERAL | Optimized AT+QCFG="fast/poweroff" . | R08A02_01.001.01.001 |
| GENERAL | Optimized AT+QGPSCFG="autogps",1 . | R08A02_01.001.01.001 |
| GENERAL | Solved the problem that NMEA data could not be outputted. | R08A02_01.001.01.001 |
| TCP/UDP | Solved the problem that only one URC for the first data would be reported with sending data multiple times by the server even set AT+QICFG="recvind",1 after establishing TCP buffer connection. | R08A02_01.001.01.001 |
| FILE | Solved the problem that the current existed file would be listed and returned OK unexpectedly when executing AT+QFLST="SD:*" after unplugging the SD card. | R08A02_01.001.01.001 |
| AUDIO | Solved the problem that PCM slave had no sound. | R08A02_01.001.01.001 |
| DFOTA | Removed the reporting of POWERED DOWN when rebooting during DFOTA. | R08A02_01.001.01.001 |
| TCP/UDP | Solved the problem of reporting from the incorrect port when UDP listener had incoming messages. | R08A02_01.001.01.001 |
| DFOTA | Supported URC reporting of consecutive upgrade progress after powering off during DFOTA upgrade. | R08A02_01.001.01.001 |
| GENERAL | Optimized AT+QDIAGPORT . | R08A02_01.001.01.001 |
| MQTT | Solved the problem of module unitability when MQTT server quickly sent large amount of data. | R08A02_01.001.01.001 |
| GENERAL | Optimized AT+QAUDRDGAIN? and AT+QAUDPLAYGAIN? . | R08A02_01.001.01.001 |

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| TCP/UDP | Solved the problem that there was additional 32 bytes reported of DATA_LENGTH when UDP connection. | R08A02_01. 001.01.001 |
| UAC | Solved the problem that UAC had no sound. | R08A02_01. 001.01.001 |
| TCP SSL | Optimized the feature of SSL. | R08A02_01. 001.01.001 |
| GENERAL | Solved the problem that high temperature deceleration did not take effect. | R08A02_01. 001.01.001 |
| GENERAL | Updated Telstra MBN version to 201904181. | R08A02_01. 001.01.001 |
| AUDIO | Solved the problem that the downlink sound would be recorded while the uplink sound was supposed to be recorded in a call. | R08A02_01. 001.01.001 |
| DFOTA | Added RSA public key in recoveryfs to check the signature of differential packets during DFOTA upgrade, it will continue to upgrade if pass, otherwise 502 error will be reported. | R08A02_01. 001.01.001 |
| GENERAL | Improved the function of Jamming detection. | R08A02_01. 001.01.001 |
| GENERAL | Solved the probabilistic problem of USB disconnection after enabling USB auto-sleep. | R08A02_01. 001.01.001 |
| Low Power | Solved the problem of high flow consumption when AT+CFUN=0 . | R08A02_01. 001.01.001 |
| GENERAL | Optimized file system protection mechanism. | R08A02_01. 001.01.001 |
| HTTP | Solved the problem that the obtained URL was the URL of HTTPS unexpectedly while the HTTP URL was entered under IPv6 address. | R08A02_01. 001.01.001 |
| GENERAL | Optimized USB startup mechanism. | R08A02_01. 001.01.001 |
| NETWORK | Solved the problem of displaying incorrect band value after setting LTE BAND value through AT+QCFG="band" to 0. | R08A02_01. 001.01.001 |

5. Known Issues

| Item/Category | Brief Description |
|---------------|-------------------|
| / | / |

6. Functions

| Basic Function | | | | | | | | |
|--------------------|------------|------------------------|-------------------|---------------|-----------|--------------------|------|------|
| SMS | Voice Call | Data Call | USSD | PHB | CMUX | FILE ¹⁾ | Fax | STK |
| Y | Y | N | N | Y | Y | Y | N | N |
| Protocol Function | | | | | | | | |
| QMI | TCP/UDP | PPP | MMS ²⁾ | FTP | SMTP | HTTP | NITZ | PING |
| Y | Y | Y | Y | Y | Y | Y | Y | Y |
| NTP | SMTPS | HTTPS | TCP SSL | MQTT | | | | |
| Y | Y | Y | Y | Y | | | | |
| Special Function | | | | | | | | |
| DTMF ³⁾ | Dual UART | Security ⁴⁾ | DFOTA | SIM Detection | Low Power | RMNET | ECM | SD |
| Y | Y | Y | Y | Y | Y | Y | Y | Y |
| RNDIS | UAC | MBIM | DSSS | | | | | |
| Y | Y | Y | Y | | | | | |

NOTE

1. Y means the firmware supports this function.
2. N means the firmware does not support this function.
3. ¹⁾ Supports RAM FILE only.
4. ²⁾ Supports MMS sending only.
5. ³⁾ Supports DTMF decoding only.
6. ⁴⁾ Support Secure Boot and Secure Debugging.
7. Verification Environment is shown below. For more details, please contact Quectel Technical Support.
For Windows,
QFlash Tool: QFlash_V7.0
USB Driver: Quectel_Windows_USB_Driver(Q)_NDIS_V2.8.1

For Linux,
QFirehose Tool: QFirehose_Linux_Android_V1.4.20

USB Driver: Quectel_Linux_USB_Serial_Option_Driver_20220624

Quectel-CM Tool: Quectel_QConnectManager_Linux_V1.6.7

QLog Tool: QLog_Linux_Android_V1.5.24

QMI_WWAN Driver: Quectel_Linux&Android_QMI_WWAN_Driver_V1.2.7

GobiNet Driver: Quectel_Linux&Android_GobiNet_Driver_V1.6.5

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