

MC65 Release Notes

GSM/GPRS/GNSS Module Series

Rev. MC65_Firmware_Release_Notes_V0121

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1. Preamble

This document provides the Release Notes for MC65 firmware version **MC65MAR01A21**. It describes major changes compared to MC65 firmware version **MC65MAR01A20**.

2. Matters Needing Attention

SN	Brief Description
[1]	GST statement is not output by default, Need to send the command AT+QGNSSCMD=0,"\$PCAS03,1,1,1,1,1,1,1,1,0,0,,,0,1*03" after the NMEA GST statement output is turned on, The AT+QGNSSRD command can be used normally.
[2]	The new firmware version cannot be downgraded to versions released before MC65MAR01A20, otherwise the module will not be able to work normally.

3. New Features

Item /Category	Brief Description	Since
MQTTS	Supported SNI in MQTTS.	R01A20
NETWORK	Relevant technical controls have been carried out to restrict normal network registration in regions such as RUS and IRN, thus ensuring that the module can be used only for civilian applications.	R01A20
GENERAL	The new firmware version cannot be downgraded to previous versions, otherwise the module will not be able to work normally.	R01A20
GENERAL	Added AT+QUESTAT to query UE status and report URC actively when the specific PLMN was disabled.	R01A20
GNSS	Added AT command AT+QGNSSRD="NMEA/GST" to query GST statements, Modify AT command "AT+QGNSSRD?" to output GST statement.	R01A04
TCP SSL	Added ciphersuites 0XC030.	R01A04
TCP SSL	Added ciphersuites 0XC027,0XC013,0XC028,0X009D,0X009C.	R01A04
MQTT	Increase the MQTT receive buffer size to 4K.	R01A04
AUDIO	Added the parameter <pin_level> for AT+QEXTPAEAPIN command to configure the pin level.	R01A04
TCP SSL	Added AT command AT+QSSLCFG="clientkey",<ctxindex>[,<clientkeyname>[,<pas	R01A04

	sword>]] to support client private key with password.	
OTHERS	Added AT command AT+QOEM to control whether to report NO CARRIER when PPP hangs up.	R01A04
OTHERS	Added AT command AT+QCFG="URC/ChannelOutput" to control the used channel URC to actively report.	R01A04
OTHERS	Added AT command AT+QCFG="URC/Disable" to control URC to report actively.	R01A04
OTHERS	Added AT command AT+QIURC to control the reporting of Call Ready.	R01A04
GNSS	When AT+QGNSSC=1 under ALL-in-one turns on GNSS, the default mode is configured as GPS+GLONASS.	R01A04
QuecOpen	Added the API QI_GetPowerOnReason() .	R01A04
PPP	Added AT command AT+QGPAU to set the PPP authentication type.	R01A04
AUDIO	Added the QI_AUD_GetStatusPlaybuf interface to get the status of playbuf.	R01A04
MQTT	Added the length of MQTT password to 512 bytes.	R01A04
OTHERS	Added secure data area function.	R01A04
TCP	Added TCP Server function for IPV4/IPV6.	R01A03
SSL	Added TCP SSL/ HTTPS/ MQTT function.	R01A03
QuecOpen	Added logical watchdog function(Supported GPIO pins are PINNAME_RTS,PINNAME_CTS,PINNAME_RI,PINNAME_DCD)	R01A03

4. Improved Features

Item/Category	Brief Description	Since
FTP	Solved the problem that no URC that indicated a successful downloading was reported for FTP GET because the server did not disconnect.	R01A21
MQTT	Adjusted the <password> length of AT+QMTCONN to 700 bytes.	R01A20
SIMCARD	Solved the problem of SIM card disconnection caused by timeout on searching phonebook file in the SIM card.	R01A20
UART	Solved the problem of the UART2 opening failure.	R01A20
HTTP	Fixed the bug that when the HTTP hostname larger than 50 bytes, connection fail.	R01A04

TCP	Fixed the bug that AT+QINDI=2 cannot be set normally.	R01A04
PPP	Fixed the bug that PPP pulling DTR to report 2 NO CARRIER.	R01A04
SIMCARD	Fixed the bug that the status of SIM PUK could not be queried after executing AT+CPIN? command after SIM card lock PUK.	R01A04
SIMCARD	Fixed the bug that +CME ERROR: SIM PUK required was not reported after executing AT+CIMI command after SIM card lock PUK.	R01A04
PPP	Fixed the bug that the PPP script cannot dial successfully when it rejects pap and chap at the same time.	R01A04
PPP	Fixed the bug that the PPP script cannot dial successfully when the username and password are empty.	R01A04
TCP	Fixed the bug that when the module is a server, the server sends data to the client, but the AT+QISACK query returns +QISACK: 0, 0, 0.	R01A04
FTP	Fixed the bug that AT+QFTPGET fails to download files in AT+QFTPCFG=1,0 active mode.	R01A04
HTTP	Fixed the bug that AT+QHHTTDL failed to download big file to RAM.	R01A04
AUDIO	Fixed the bug that the ATDxxx or QAUDSTOP command is stuck after the MP3 playback is completed and the URC is reported.	R01A04
OTHERS	Optimized the problem that the modules on some devices are slow to boot due to the serial port.	R01A04
OTHERS	Solved the problem of probabilistic crash caused by DTR as a watchdog pin.	R01A04
SMS	Fixed the bug that after setting AT+CPMS="ME", "ME", "ME" , the module is turned off, and a short message is sent to the module at this time, but the short message cannot be read in ME when it is turned on.	R01A04
SMS	Fixed the bug that the card file returns abnormally and drops the card after receiving the SMS.	R01A04
OTHERS	Deleted SMTPS/OneNET/DM function.	R01A04

5. Known Issues

Item/Category	Brief Description
/	/

6. Functions

Basic Function

SMS	Voice Call	Data Call	Fax	USSD	PHB	STK	CMUX	Dual UART
Y	Y	N	N	Y	N	N	Y	Y
FILE ¹⁾								
Y								

Protocol Function

TCP/UDP	PPP	FTP	HTTP	NITZ	PING	NTP	HTTPS	TCP SSL
Y	Y	Y	Y	Y	Y	Y	Y	Y
MQTT								
Y								

Special Function

Audio Record	Audio Play	Quec FOTA	Quec Locator2.0 ²⁾	DFOTA	Quec Open
Y	Y	Y	Y	Y	Y

GNSS Function

AGPS					
Y					

NOTE

1. Y means the firmware supports this function.
2. N means the firmware does not support this function.
3. ¹⁾ Supports UFS/RAM FILE only.
4. ²⁾ QuecLocator2.0 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.
5. Verification Environment is shown below. For more details, please contact Quectel technical support.
For Windows,
Qcom Tool: QCOM_V1.6 or QCOM_V1.7_01_Beta4
Qflash Tool: QFlash_V6.2

For Linux,
CMUX Driver: linux_cmux_2018.zip

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