

MC60 Release Notes

GSM/GPRS/GNSS Module Series

Rev. MC60_Firmware_Release_Notes_V0105

Date: 2016-11-21



1. Preamble

This document provides the Release Notes for MC60 firmware version **MC60CAR01A05**. It describes major changes compared to MC60 firmware version **MC60CAR01A04**. For a detailed listing of all changes, refer to the MC60 AT Command Set.

2. New Features

Item /Category	Brief description	Since
OpenCPU	Added OpenCPU function.	R01A03
ВТ	Added BT function, support SPP/HFP/AG profile.	R01A03
РНВ	Added Phone Book function.	R01A03
ECALL	Added eCall function.	R01A03
SIM DETECTION	Added SIM detection function.	R01A03
GNSS	Added GNSS function(AT+QGNSSC/AT+QGNSSRD/AT+QGNSSCMD).	R01A03
GNSS	Added GNSS SDK function (PQEPE/PQGLP).	R01A03
GNSS	Added EPO function for GNSS (AT+QGNSSTS/ AT+QGNSSEPO/AT+QGREFLOC/ AT+QGEPOAID).	R01A04
GNSS	Added QuecFastFix Online AGPS function.	R01A04
GNSS	Added 1PPS function.	R01A04
Audio Play	Added audio play command(AT+QPCMCLK).	R01A04
PPP	Added PPP function.	R01A04
Dual UART	Added Dual UART function.	R01A04
GNSS	Added AT Command AT+QGNVPDM.	R01A05
OpenCPU	Added the GPIO pins (SIM2_CLK, SIM2_RST, SIM2_DATA, GPIO0~GPIO4).	R01A05
FILE	Added to support SD function.	R01A05
ТСР	Added the function that RI is set to low level and holds low level for 120ms when module receive TCP data that same as customized heartbeat.	R01A05



OpenCPU	Added the API QL_VSPRINTF().	R01A05
PPP	Added the QPPPTIMER function.	R01A05
AUDIO	Added AT Command AT+QPLAYMEM , AT+QPMEMBG to play audio stream.	R01A05

3. Improved Features

Item/Category	Brief description	Since
GENERAL	Fixed the bug that PWM work abnormal issue.	R01A03
TCP/UDP	Fixed the bug that modem only receive but couldn't send data while modem re-enter in transparent transmission.	R01A03
GENERAL	Fixed the bug that cell information reported abnormal in calling after executing AT+QENG=2,1, but hang up after a while cell information reported will back to normal.	R01A03
GENERAL	Fixed the bug that the GNSS module waked up the GSM module too frequently.	R01A04
GNSS	Disabled the NMEA sentence of GPACCURACY output.	R01A04
NITZ	Fixed the bug that the information reported abnormal after executing AT+CTZR=2.	R01A04
DTMF	Fixed the bug that after executing AT+QWDTMF with empty DTMF code, it will return OK for the first execution and after that will have been reported error regardless of whether the parameters are correct or not.	R01A04
TCP SSL	Fixed the bug that the information reported abnormal after executing AT+QSSLCFG.	R01A04
ВТ	Fixed the bug that the module could establish only one active connection, but when two active connections were established, there was no wrong reported information.	R01A04
ТСР	Fixed the bug that there is no RI pin hopping when the TCP connection is disconnected by server.	R01A05
ВТ	Fixed the bug that the volume can't be changed by AT+CLVL command during a Bluetooth phone call.	R01A05
ВТ	Fixed the bug that there is no RI pin hopping when URC reported in bluetooth functional state.	R01A05
ТСР	Optimized the interval range of TCP heartbeat packets keep alive, it can be configured for 10 s ~ 30 min.	R01A05
GNSS	Fixed the bug that GNSS frequently switch will lost some NMEA	R01A05



	sentences, when the GSM boot.	
SMTP	Fixed the bug that there is an error "+QSMTPATT: -12", when execute QSMTPPATT, and Upload a file from the COM.	R01A05
GENERAL	Fixed the bug that SD card and SIM2 pin can not work normally as a GPIO mode for feeding hardware watchdog in the stage of bootloader.	R01A05
Dual UART	Fixed the bug that setting the debug port baud rate and save the invalid after restart, when Dual UART function is enabled.	R01A05

4. Functions

Basic Fun	ection				A 6			
SMS	Voice Call	Data Call	Fax	USSD	PHB	STK	CMUX	Dual UART
Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ
FILE ¹⁾								
V								

Protocol Function									
TCP/ UDP	PPP	MMS ²⁾	FTP	SMTP	HTTP	NITZ	PING	NTP	
Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	
SMTPS	HTTPS	TCP SSL							
Υ	Υ	Υ							

Special Fu	ınction							
Jamming Detection	DTMF	Audio Record	Audio Play	QuecFOTA	OpenCPU FOTA	Quec Locator	OpenCPU	DSSS
Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
eCall	ВТ	SIM Detection	GNSS	ALARM				
Υ	Υ	Υ	Υ	Υ				



NOTES

- 1. Y means the firmware supports this function.
- 2. N means the firmware does not support this function.
- 3. 1) Supports UFS/RAM/SD FILE only.
- 4. ²⁾ Supports MMS sending only.