M66 Release Notes

GSM/GPRS Module Series

Rev. M66_Firmware_Release_Notes_V0108

Date: 2016-03-08

1. Preamble

This document provides the Release Notes for M66 firmware version **M66FAR01A08BT**. It describes major changes compared to M66 firmware version **M66FAR01A07BT**. For a detailed listing of all changes, refer to the M66 AT Command Set.

2. New Features

Item /Category	Brief description	Since
OpenCPU	Added OpenCPU function.	R01A02
TCP/UDP	Extended **AT+QIRD** to support query a socket receive data and data in buffer when **<readlen>=0**.	R01A02
NITZ	Extended the function of **AT+QLTS**.	R01A02
AUDIO	Added audio play function (**AT+QAUDPLAY/AT+QAUDSTOP**).	R01A03
BT	Added BT function, just support SPP profile currently.	R01A03
HTTP	Added AT Command **AT+QHTTPCFG**.	R01A03
PHB	Added AT Command **AT+QPBD**.	R01A03
AUDIO	Added audio play function during a call (**AT+QPSND**).	R01A04
AUDIO	Added Resource Bin play function during a call (**AT+ QPRESBG**).	R01A04
AUDIO	Added Resource Bin play function (**AT+QPLAYRES/AT+QSTOPRES**).	R01A04
QuecLocator	Added new parameter for **AT+QLOCCFG** to get the time when customer use **AT+QCELLLOC=1** to get the GSM location information.	R01A04
AUDIO	Added new function **AT+QCAGC** control AGC.	R01A04
SMS	Added new option **<ds>=2** of **AT+CNMI** to save SMS-STATUS-REPORT in storage.	R01A04
BT	Added BT SPP transparent transmission function.	R01A04
BT	Supported to set the second parameter as 0 to query the sent/read count in **AT+QSPPSEND** and **AT+QSPPREAD**.	R01A04
GNSS	Added UART GNSS function.	R01A04

BT	Added BT HFP AG function.	R01A05
BT	Added **AT+QBTHFGOP** command.	R01A06
GENERAL	Added **AT+QGPIO** command.	R01A06
OpenCPU	Added QuecFOTA App download function.	R01A06
PCM	Added read mode of **AT+QPCMON** command to query the PCM state.	R01A07
PCM	Added **AT+QPCMCLK** command.	R01A07
FILE	Added SD card storage function.	R01A08
TCPIP	Added **AT+QIOPT** command.	R01A08
AUDIO	Added **AT+QPMEMBG** command.	R01A08

3. Improved Features

Item/Category	Brief description	Since
SMTP	Fixed the bug that SMTP does not support adding attachment from COM.	R01A02
AUDIO	Improved the echo cancellation and suppression function.	R01A02
AUDIO	Improved the audio gain table of QMIC and CLVL.	R01A02
AUDIO	Fixed the bug that playing time is not accurate when using **AT+QLTONE**.	R01A02
VOICE CALL	Fixed the bug that execute **AT+CCFC=0,2,,,1** to query the status of call forwarding but return ERROR.	R01A02
JAMMING DETECTION	Fixed the bug that no jamming status reported whether turn on or turn off the jammer while the RI pin is set as reporting pin.	R01A02
TCP/UDP	Fixed the TCP incorrect retransmission issue in A02.	R01A03
GENERAL	Fixed the bug that the written index of **AT+CPOL** is incorrect.	R01A03
AUDIO	Fixed the bug that the tone can't be normally closed after in the case of continuous playback when calling **AT+QLTONE**.	R01A04
AUDIO	Fixed the bug that the tone can't be played when the parameter "**periodOn**" of **AT+QLTONE** is set to 0.	R01A04
VOICE CALL	Fixed the bug that module can't hang up by calling **ATH** after **ATS0** was set to 3 and saved.	R01A04

STK	Optimized the behavior when **AT+QSTK=0**.	R01A04
GENERAL	Fixed the bug that the DTR function cannot be used.	R01A04
BT	Changed the maximum limit of BT scanning equipment to 20.	R01A04
AUDIO	Fixed the bug that the voice call have some noise when the QMIC is set 0, in earphone path.	R01A05
BT	Supported transparent SPP mode for **AT+QBTCONND**.	R01A05
BT	Removed the double quotes from the BT address parameter, and added the double quotes to the BT profile name parameter.	R01A05
BT	Fixed the bug that the module will crash when SPP connect disconnect again and again.	R01A06
OpenCPU	Add some fatal error code for file system operation.	R01A06
BT	Fixed the bug that the module set up call first, then connect Bluetooth headset, the voice will output from the headset, even though the result of **AT+QBTHFGAUDIO?** is1.	R01A07
BT	Fixed the bug that multiple paired devices will occasionally appear the same name.	R01A07
BT	Fixed the bug that the device failing to pair appears in the paired list occasionally.	R01A07
BT	Fixed the bug that result of **AT+ QBTDISCONN =?** doesn't include mode 0.	R01A07
OpenCPU	Fixed the bug that the module will hang if DTR is configured as GPIO mode.	R01A07
AUDIO	Fixed the bug that the **AT+QMEDVL** cannot work in **AT+ QAUDPLAY** repeated playback.	R01A07
OpenCPU	Fixed the bug that multiple calls of QI_PWM_Output() will lead to crash.	R01A07
AUDIO	Revised **AT+QWDTMF** result code report: report OK first after the command is executed and report "+WQDTMF: 5" after the playback completes.	R01A07
BT	Fixed the bug that it won't take effect to change the BT name in the paired status.	R01A07
OTHERS	Fixed the bug that the byte "0x1B" cannot be sent as data in fixed-length mode.	R01A07
BT	Fixed the bug that the BT pairing list is disordered and mismatched after download the firmware.	R01A07
VOICE CALL	Fixed the bug that if send SMS immediately in 2 seconds after originating the voice call, the call will be hung up.	R01A07
FTP	Fixed the bug that an error has occurred while upload SD file to FTP server.	R01A08
GENERAL	Fixed the bug that there was no "**OK"** returned after execute	R01A08

	AT+QLOCKF.	
OTHERS	Fixed the bug that after setting the power off alarm, module power down immediately, which should be delay 5 seconds expected.	R01A08
NETWORK	Optimized the function that search network and scan frequency under special network environment.	R01A08
FTP	Fixed the bug that an error occurred while download file from FTP by anonymous login.	R01A08
TCPIP	Fixed the bug that while SSL_TCP connection exist with common TCPIP connection at the same time, execute common TCPIP commands will returned error after disconnected SSL_TCP connection.	R01A08
BT	Fixed the bug that can't use **ATH** hang up coming call while use HF device during calling.	R01A08
GENERAL	Fixed the bug that multi "**+CREG/+CGREG**" reported while module during roaming.	R01A08
BT	Fixed the bug that when module as AG, there was no ringtone sent to HF equipment which connected with module.	R01A08

4. Functions

Basic Function								
SMS	Voice Call	Data Call	Fax	USSD	PHB	STK	CMUX	Dual UART
Y	Y	N	N	Y	Y	Y	Y	Y

FILE[1]
Y

Protocol Function								
TCP/ UDP	PPP	MMS[2]	FTP	SMTP	HTTP	NITZ	PING	NTP
Y	Y	Y	Y	Y	Y	Y	Y	Y

SMTPS	HTTPS	TCP SSL
Y	Y	Y

Special Function								
Jamming Detection	DTMF	Audio Record	Audio Play	Quec FOTA	OpenCPU FOTA	Quec Locator	OpenCPU	eCall
Y	Y	Y	Y	Y	Y	Y	Y	Y

BT	SIM Detection	UART GNSS
Y	Y	Y

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.