

M35 Release Notes

GSM/GPRS Module Series

Rev. M35(R2.0)_Firmware_Release_Notes_V0212

Date: 2017-01-12

1. Preamble

This document provides the Release Notes for M35 firmware version **M35FAR02A12**. It describes major changes compared to M35 firmware version **M35FAR02A11**. For a detailed listing of all changes, refer to the M35 AT Command Set.

2. New Features

Item /Category	Brief description	Since
ECALL	Added eCall function.	R01A02
SIMCARD	Added to support DSSS by AT+QDSIM .	R01A03
PPP	Added AT Command AT+QPPPTIMER .	R01A03
RECORDING	Added Recording function.	R01A03
POP3	Added POP3 function.	R01A03
TTS	Added TTS function.	R01A03
GENERAL	Added AT Command AT+CCID .	R01A04
SIMCARD	Added SIM card detection function.	R01A04
PCM	Added to support PCM by AT+QPCMON .	R01A04
TCP/UDP	Extended AT+QIRD to support query a socket receive data and data in buffer when <readlen>=0 .	R01A06
NITZ	Extended the function of AT+QLTS .	R01A06
HTTP	Added AT Command AT+QHHTTPCFG .	R01A08
PHB	Added AT Command AT+QPBD .	R01A08
NETWORK	Added customized AT commands.	R02A01
AUDIO PLAYER	Added AT Command AT+QAUDPLAY .	R02A01
AUDIO PLAYER	Added AT command AT+QPSND .	R02A05
SMS	Added support of <ds>=2 of AT+CNMI .	R02A07
AUDIO PLAYER	Added AT command AT+QAUDPRI .	R02A07
TCP/UDP	Added AT Command AT+QIDATAVOL .	R02A09

OTHERS	Added the command of AT+QCFG="SLEEP/DataCtrl" to configure the URC output way in sleep mode.	R02A09
PCM	Added read mode of AT+QPCMON command to query the PCM state.	R02A10
OTHERS	Added AT Command AT+QDISUART .	R02A10
HTTP	Added the function that HTTP breakpoint downloading process with the range domain.	R02A10
TCP	Added the function that RI get lower and holds low level for 120ms when module receive TCP data that same as customized heartbeat.	R02A10
TCP SSL	Added two encryption algorithm suite BUILD_TLS_RSA_WITH_AES_128_GCM_SHA256 and BUILD_TLS_RSA_WITH_AES_256_GCM_SHA384 .	R02A10

3. Improved Features

Item/Category	Brief description	Since
GENERAL	Fixed the bug that system will be reset in sleep mode.	R01A03
NETWORK	Fixed the bug that the APN will not valid when GPRS QIACT activating.	R01A03
PING	Fixed the bug that the returned time is not exact when ping a remote server.	R01A04
MMS	Fixed the potential bug that attachment cannot be deleted after MMS send reports error 3901.	R01A04
MMS	Fixed the bug that an error will be reported if send a message with 5 recipients and 5 Cc.	R01A04
TTS	Fixed the bug that error 4111 will be reported occasionally if replay the TTS immediately after AT+QTTS=0 .	R01A04
TCP/UDP	Fixed the bug that buffer is not cleared after TCP connection is closed in transparent mode.	R01A04
TCP/UDP	Fixed the potential bug that the module might crash while resolve domain names.	R01A04
NETWORK	Fixed the bug that module cannot be paged after replacing another SIM card when switching AT+CFUN=0 to AT+CFUN=1 .	R01A04
GENERAL	Fixed the ATC format error about the return results of AT+QBAND=? .	R01A04
GENERAL	Fixed the ATC format error about the return result of AT+QJDCFG=? .	R01A04
OTHERS	Fixed the bug that UART data cannot wakeup module in AT+QSCLK=2 mode.	R01A04

OTHERS	Fixed the bug that when the module's UART is in 4800bps, the return result of AT+QPOWD=1 could not output completely occasionally.	R01A04
OTHERS	Disabled the high voltage warning/shutdown by default.	R01A04
CMUX	Fixed the bug that in CMUX mode, AT commands cannot execute occasionally after module is waked up by DTR.	R01A04
OTHERS	Fixed the bug that power consumption cannot be reduced in sleep mode if U2RXD is not connected.	R01A04
GENERAL	Fixed the bug that URC and AT command result might output to incorrect channel in CMUX mode.	R01A05
PPP	Fixed the bug that AT+QGDVOL=1/2 cannot calculate the amount of downlink data.	R01A06
PPP	Fixed the bug that the returned result is not correct by AT+QGDVOL .	R01A06
JAMMING DETECTION	Fixed the bug that restart module after execute AT+QJDR=1 , there is only RDY returned.	R01A06
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.	R01A06
JAMMING DETECTION	Fixed the bug that the status of corresponding pin doesn't change immediately after execute AT+QJDCFG .	R01A06
JAMMING DETECTION	Fixed the bug that when change AT+QJDCFG="URC",1 to AT+QJDCFG="URC",0 , the corresponding function cannot take effect immediately.	R01A06
AUDIO	Fixed the bug that the tone by AT+QLTONE does not play with the specified time.	R01A06
AUDIO	Improved the echo cancellation and suppression function.	R01A06
AUDIO	Improved the audio gain table of QMIC and CLVL to keep more compatible with M35 R1.0.	R01A06
VOICE CALL	Fixed the bug that execute AT+CCFC=0,2,,,1 to query the status of call forwarding but return ERROR.	R01A06
AUDIO	Fixed the bug that the ringtones volume can be modified by AT+CLVL when change the audio channel.	R01A06
GENERAL	Fixed the bug that incorrect format returned by AT+CPOL .	R01A06
GENERAL	Fixed the bug that the written index of AT+CPOL is incorrect.	R01A06
GENERAL	Fixed the bug that incorrect format returned by AT+QMUXCFG=? .	R01A06
USSD	Fixed the bug that if module initiated USSD fails which reports URC: +CUSD: 4 will push down RI pin.	R01A06
TCP/UDP	Fixed the TCP incorrect retransmission issue in A06.	R01A08
AUDIO RECORD	Fixed the bug that after execute AT+QPCMW and +++ , the module will crash when have a call.	R01A08

VOICE CALL	Fixed the bug that execute ATD10086 ; and AT+VTS=1 after AT+COLP=1 or AT+QCOLP=1 , there is no OK returned until the call is disconnected by remote device.	R01A08
TCP/UDP	Fixed the bug that module acted as a server cannot accept one more client when received 6 "RST" frame from other TCP client.	R02A01
NETWORK	Improved the feature of searching network when the module starts up.	R02A01
NETWORK	Fixed the bug that AT+CPOL cannot be handled correctly.	R02A01
AUDIO	Fixed the bug that AT+CLVL will affect the volume of another channel during the incoming CALL.	R02A01
NETWORK	Improved the priority of Routing Area Update.	R02A03
SMS	Fixed the bug that AT+CNMA doesn't return OK.	R02A03
PCM	Fixed the bug that there isn't any output on PCM_OUT during call if AT+CALM=1 .	R02A03
NETWORK	Fixed the bug that AT+QOPS cannot scan if SIM PIN is locked.	R02A05
OTHERS	Fixed the bug that module encounter exception in very little rate during the stress test of TCP over PPP in CMUX.	R02A05
NETWORK	Fixed the bug that module may report URC +CREG / +CGREG for more times continuously in roaming state.	R02A07
SMS	Fixed the bug that during ATD initialize to dial a call, AT+CMGS may abort the dial process.	R02A07
TCP/UDP	Fixed the bug that disconnect SSL_TCP when SSL_TCP and ordinary TCPIP co-existence. The ordinary TCPIP will report error during sending data.	R02A09
OTHERS	Fixed the bug that the module will be neither alarm nor close down when the voltage is higher the setting value.	R02A09
AUDIO PLAYER	Fixed the bug that the module will not report error when the value of QMEDVL is outside the set range.	R02A09
HTTP	Fixed the bug that the module will not report error when execute the command of " AT+QHTTPURL " with illegal parameter.	R02A09
AUDIO RECORD	Fixed the bug that the module cannot exit data mode when execute AT+QAUDRDEX to record then the module coming call.	R02A09
PPP	Fixed the bug that PPP dialling fail in the special network environment.	R02A09
NETWORK	Optimized the function that search network and scan frequency under special network environment.	R02A09
SIMCARD	Configure SIM card pin "SIM_PRESENCE(DTR)" for the internal pull-up.	R02A09
FTP	Optimized the process of FTP breakpoint download in passive mode.	R02A10

AUDIO	Fixed the bug that setting ring volume with AT+CRSL is invalid before calling.	R02A10
ALARM	Fixed the bug that after setting the power off alarm, module power down immediately without the expected 5 second delay.	R02A10
SIMCARD	Fixed the bug that the module does not work normally when insert Vodafone's 4G USIM card.	R02A10
VOICE CALL	Fixed the bug that the voice of first call will be weaken after the second call is incoming when module open call waiting function.	R02A11
TCP/UDP	Fixed the bug that when the TCP connection is disconnected by the server, only CLOSED reported, no RI jump.	R02A11
UART	Fixed the bug that when the user is not execute AT+QDISUART , serial port will be closed after the module going to sleep mode.	R02A11
HTTP	Fixed the bug that the base station location operation will report wait date timeout error after HTTPS operation.	R02A11

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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
SMTSPS	HTTPS	TCP SSL	POP3					
Y	Y	Y	Y					
Special Function								
Jamming Detection	DTMF	Audio Record	Audio Play	Quec FOTA	TTS	Quec Locator	DSSS	eCall
Y	Y	Y	Y	Y	Y	Y	Y	Y
SIM Detection	ALARM							
Y	Y							

NOTES

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.