

# **M35** Release Notes

## **GSM/GPRS Module Series**

Rev. M35(R2.0)\_Firmware\_Release\_Notes\_V0213

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## 1. Preamble

This document provides the Release Notes for M35 firmware version **M35FAR02A13**. It describes major changes compared to M35 firmware version **M35FAR02A12**. For a detailed listing of all changes, refer to the M35 AT Command Set.

## 2. New Features

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

<b>OTHERS</b>	Added the command of <b>AT+QCFG="SLEEP/DataCtrl"</b> to configure the URC output way in sleep mode.	R02A09
<b>PCM</b>	Added read mode of <b>AT+QPCMON</b> command to query the PCM state.	R02A10
<b>OTHERS</b>	Added AT Command <b>AT+QDISUART</b> .	R02A10
<b>HTTP</b>	Added the function that HTTP breakpoint downloading process with the range domain.	R02A10
<b>TCP</b>	Added the function that RI get lower and holds low level for 120ms when module receive TCP data that same as customized heartbeat.	R02A10
<b>TCP SSL</b>	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
<b>GENERAL</b>	Fixed the bug that system will be reset in sleep mode.	R01A03
<b>NETWORK</b>	Fixed the bug that the APN will not valid when GPRS QIACT activating.	R01A03
<b>PING</b>	Fixed the bug that the returned time is not exact when ping a remote server.	R01A04
<b>MMS</b>	Fixed the potential bug that attachment cannot be deleted after MMS send reports error 3901.	R01A04
<b>MMS</b>	Fixed the bug that an error will be reported if send a message with 5 recipients and 5 Cc.	R01A04
<b>TTS</b>	Fixed the bug that error 4111 will be reported occasionally if replay the TTS immediately after <b>AT+QTTS=0</b> .	R01A04
<b>TCP/UDP</b>	Fixed the bug that buffer is not cleared after TCP connection is closed in transparent mode.	R01A04
<b>TCP/UDP</b>	Fixed the potential bug that the module might crash while resolve domain names.	R01A04
<b>NETWORK</b>	Fixed the bug that module cannot be paged after replacing another SIM card when switching <b>AT+CFUN=0</b> to <b>AT+CFUN=1</b> .	R01A04
<b>GENERAL</b>	Fixed the ATC format error about the return results of <b>AT+QBAND=?</b> .	R01A04
<b>GENERAL</b>	Fixed the ATC format error about the return result of <b>AT+QJDCFG=?</b> .	R01A04
<b>OTHERS</b>	Fixed the bug that UART data cannot wakeup module in <b>AT+QSCLK=2</b> mode.	R01A04

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

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

<b>AUDIO</b>	Fixed the bug that setting ring volume with <b>AT+CRSL</b> is invalid before calling.	R02A10
<b>ALARM</b>	Fixed the bug that after setting the power off alarm, module power down immediately without the expected 5 second delay.	R02A10
<b>SIMCARD</b>	Fixed the bug that the module does not work normally when insert Vodafone's 4G USIM card.	R02A10
<b>VOICE CALL</b>	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
<b>TCP/UDP</b>	Fixed the bug that when the TCP connection is disconnected by the server, only CLOSED reported, no RI jump.	R02A11
<b>UART</b>	Fixed the bug that when the user is not execute <b>AT+QDISUART</b> , serial port will be closed after the module going to sleep mode.	R02A11
<b>HTTP</b>	Fixed the bug that the base station location operation will report wait date timeout error after HTTPS operation.	R02A11
<b>GENERAL</b>	Add the new patch to ensure performance consistency for a new BB chip processing plant.	R02A13
<b>OTHER</b>	Optimized the mechanism of FPLMN.	R02A13

## 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 <sup>1)</sup>

Y

### Protocol Function

TCP/UDP	PPP	MMS <sup>2)</sup>	FTP	SMTP	HTTP	NITZ	PING	NTP
Y	Y	Y	Y	Y	Y	Y	Y	Y
SMTPS	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. <sup>1)</sup> Supports RAM FILE only.
4. <sup>2)</sup> Supports MMS sending only.