

# EG95-NA-FB

# Release Notes

## LTE Standard Module Series

Rev. EG95-NA-FB\_Firmware\_Release\_Notes\_V0504\_30.005.30.005

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## 1. Preamble

This document provides the Release Notes for EG95-NA-FB firmware version **EG95NAFBR05A04M4G\_30.005.30.005**. It describes major changes compared to EG95-NA-FB firmware version **EG95NAFBR05A04M4G\_01.005.01.005**. For a detailed listing of all changes, refer to the EG9X AT Command Set.

## 2. Matters Needing Attention

SN	Brief Description
/	/

## 3. New Features

Item/Category	Brief description	Since
AUDIO	Added AT command <b>AT+QAUDCFG="aig"</b> to control automatic gain adjustment.	R05A04_30.005.30.005
AUDIO	Added AT command <b>AT+QCFG="oem_cilmax"</b> to initialize codec.	R05A04_30.005.30.005
DFOTA	Supported HTTPs protocol downloads in FOTA.	R05A04_30.005.30.005
DTMF	Added <b>AT+QDTMFDETSET</b> to support configuring/obtaining DTMF DETECTION module parameters in ACDB.	R05A04_30.005.30.005
DTMF	Added AT command <b>AT+QWDTMF</b> to play DTMF files or send it to Far-end.	R05A04_30.005.30.005
FTP	Added commands EPSV/EPRT to match IPv6 FTP.	R05A04_30.005.30.005
MQTT	Added AT command <b>AT+QMTCFG="protocol/check"</b> to configure whether to check MQTT header information.	R05A04_30.005.30.005
MQTT	Supported publishing up to 10K messages at a time via <b>AT+QMTPUBEX</b> .	R05A04_30.005.30.005
NETWORK	Added AT command <b>AT+QNWLOCK="common/lte"</b> to lock a special cell of LTE.	R05A04_30.005.30.005
QuecLocator2.0	Added AT command <b>AT+QLBSCFG="contextid"</b> to configure the QuecLocator context ID.	R05A04_30.005.30.005
Queclocator2.0	Added AT command <b>AT+QLBS</b> to get location information by QuecLocator and <b>AT+QLBSCFG</b> to configure QuecLocator	R05A04_30.005.30.005

	parameters.	
<b>SMS</b>	Supported SMS black and white list.	R05A04_30.005.30.005
<b>SIMCARD</b>	Added AT commands <b>AT+QSIMWRFREQ</b> to record the frequency of EF files written to SIM card and <b>AT+QSIMVOL</b> to configure SIM card supply voltage.	R05A04_30.005.30.005
<b>TCP/SSL</b>	Added AT command <b>AT+QSSLRECV</b> to read the remaining data.	R05A04_30.005.30.005
<b>Voice Call</b>	Added AT command <b>AT+QCFG="voice_busytone"</b> to enable/disable busy tone playback for Verizon network.	R05A04_30.005.30.005
<b>Voice Call</b>	Added AT command <b>AT+QCFG="call_control"</b> to control MO or MT of voice call.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QCFG="usbcfg"</b> to configure the VID, PID and port of the module.	R05A04_30.005.30.005
<b>GENERAL</b>	Enabled AGPS by default.	R05A04_30.005.30.005
<b>GENERAL</b>	Added the AT command <b>AT+QIACTEX</b> to activate PDP asynchronously.	R05A04_30.005.30.005
<b>GENERAL</b>	Supported ADB and serial port security function.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QCFG="urcdelay"</b> to configure whether to delay URC report.	R05A04_30.005.30.005
<b>GENERAL</b>	Supported alc5660 codec.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QODM="hostdevice"</b> to query and configure device information.	R05A04_30.005.30.005
<b>GENERAL</b>	Added class 6 APN for Verizon.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QICFG="recv/buffersize"</b> to manually configure the threshold of wm_high in socket application layer.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QOPS</b> to scan full frequency and display a list of network information of all available operators in the current physical location.	R05A04_30.005.30.005
<b>GENERAL</b>	Enabled DSI reporting for emergency call without SIM card inserted.	R05A04_30.005.30.005
<b>GENERAL</b>	Supported SMTP server's analysis of multiple responses.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QFTPCFG="restenable"</b> to control whether to enable FTP server to support REST command.	R05A04_30.005.30.005
<b>GENERAL</b>	Supported RDA PA.	R05A04_30.005.30.005
<b>GENERAL</b>	Added AT command <b>AT+QAPRDYIND</b> to configure whether to report the specified URC.	R05A04_30.005.30.005

<b>MQTT</b>	Added AT command <b>AT+QMTCFG="willex"</b> to configure will_msg.	R05A04_01. 005.01.005
<b>GENERAL</b>	Added new number 000 to emergency number list without sim card and added AT command <b>AT+QECCNUM=4</b> .	R05A04_01. 005.01.005
<b>NETWORK</b>	Added AT command <b>AT+QCFG="cops_no_mode_change"</b> .	R05A04_01. 004.01.004
<b>NETWORK</b>	Added AT command <b>AT+QLTENGBR</b> .	R05A04_01. 004.01.004
<b>TCP SSL</b>	Added AT command <b>AT+QSSLCFG="clientkey"</b> .	R05A04_01. 004.01.004
<b>TCP SSL</b>	Added AT command <b>AT+QSSLCFG="closetimemode",&lt;ssl_ctx_id&gt;[,&lt;closetime_mode&gt;]</b> .	R05A04_01. 004.01.004
<b>SMS</b>	Added AT command <b>AT+QCFG="ltesms/format"</b> .	R05A04_01. 004.01.004
<b>TCP SSL</b>	Added below AT commands: <b>AT+QSSLCFG="ignoremulticertchainverify",&lt;ssl_ctx_id&gt;[,&lt;ignore_multicertchain_verify&gt;]</b> <b>AT+QSSLCFG="ignoreinvalidcertsign",&lt;ssl_ctx_id&gt;[,&lt;ignore_invalidcertsign&gt;]</b>	R05A04_01. 004.01.004
<b>NETWORK</b>	Added AT command <b>AT+QCOPSCFG</b> .	R05A04_01. 004.01.004
<b>GENERAL</b>	Added AT command <b>AT+QODM="hostdevice"</b> for ATT OMA.	R05A04_01. 004.01.004
<b>GENERAL</b>	Added feature of ECBM for Verizon.	R05A04_01. 004.01.004
<b>GENERAL</b>	Refreshed NV settings for AT&T when inserting SIM card of AT&T.	R05A04
<b>GENERAL</b>	Added <b>AT+QCFG= "dhcppktnfltr"</b> command.	R05A04
<b>GENERAL</b>	Added <b>AT+QNETINFO</b> command.	R05A04

## 4. Improved Features

Item/Category	Brief description	Since
<b>AUDIO</b>	Solved the problem of no sound for alc5616 call.	R05A04_30. 005.30.005
<b>DFOTA</b>	Updated recovery to fix the problem of log being output during FOTA.	R05A04_30. 005.30.005

DFOTA	Solved the problem that FOTA upgrade failed when special characters included in the HTTP URL	R05A04_30.005.30.005
FTP	Solved the problem of timeout error (error code 609 returned) when executing <b>AT+QFTPOPEN</b> to log in to the FTP(S) server.	R05A04_30.005.30.005
FTP	Supported resuming uploading files under FTP.	R05A04_30.005.30.005
FTP	Fixed the problem of FTPS not displaying SSL.	R05A04_30.005.30.005
FTP	Solved the problem that there may be no response or 603 error code reported during FTP download and upload.	R05A04_30.005.30.005
FTP	Improved FTPS implicit mode compatibility.	R05A04_30.005.30.005
FTP	Solved the problem that the AT port could not work normally when the FTPS data were obtained under implicit/explicit encryption mode.	R05A04_30.005.30.005
FTP	Optimized the process of compatibility with various server connections and interactions.	R05A04_30.005.30.005
FTP	Solved the problem that the module could not work normally due to uploading a large number of files (10M) to FTP via UFS after the module established a non-authenticated explicit/implicit connection with the FTP server.	R05A04_30.005.30.005
FTP	Solved the problem that error code 619 may be returned when PUT file via FTP.	R05A04_30.005.30.005
HTTP	Solved the problem that the module worked improperly after asking an HTTP request with wrong URL.	R05A04_30.005.30.005
MQTT	Solved the problem that after setting willmessage with a length of 256 bytes through <b>AT+QMTCFG="WILLEX"</b> , willtopic will also be returned after willmessage in URC.	R05A04_30.005.30.005
MQTT	Corrected the response format of <b>AT+QMTUNS=?</b> from +QMTSUB to +QMTUNS.	R05A04_30.005.30.005
MQTT	Solved the problem that the SFS encrypted certificate failed to establish a two-way authentication connection with the mosquito, FTP or HTTP server.	R05A04_30.005.30.005
NETWORK	Changed the maximum band number to be searched by command <b>AT+QCOPS</b> .	R05A04_30.005.30.005
NETWORK	Optimized <b>AT+QCFG="fast_dormancy"</b> to support fast dormancy mode 3.	R05A04_30.005.30.005
TCP SSL	Optimized the command <b>AT+QSSLCFG</b> to support loading multiple CA certificates.	R05A04_30.005.30.005
TCP SSL	Solved the problem that the SSL server could not be connected normally after setting the SSL version to SSL3.0.	R05A04_30.005.30.005
TCP SSL	Improved the stability of the module when TCP SSL was multiplexed at the same time.	R05A04_30.005.30.005
TCP/UDP	Solved the problem that the number of actually connected clients did not match the set clients when the module was used as a TCP server.	R05A04_30.005.30.005

<b>SMS</b>	Not saved WAP PUSH SMS in OMA.	R05A04_30. 005.30.005
<b>SMS</b>	Supported reading and writing SMS in the case of no SMS storage area in the SIM card.	R05A04_30. 005.30.005
<b>SIMCARD</b>	Enabled invalid SIM card identification.	R05A04_30. 005.30.005
<b>SIMCARD</b>	Solved the problem that the SIM card hot-plug function could not work normally after selecting slot2.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem that all data would be reported abnormally after executing <b>AT+QIRD</b> cyclically and quickly to read part of data.	R05A04_30. 005.30.005
<b>GENERAL</b>	Optimized UE identity reporting process.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem that ATT OMADM could not connect DM server caused by a failure of SSL handshake.	R05A04_30. 005.30.005
<b>GENERAL</b>	Disabled ATT OMA auto-report at booting by default.	R05A04_30. 005.30.005
<b>GENERAL</b>	Modified the default value of appid for Verizon.	R05A04_30. 005.30.005
<b>GENERAL</b>	Update Verizon MBN version to 202011021.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem of USB port disconnection due to long time for USB resume.	R05A04_30. 005.30.005
<b>GENERAL</b>	Modified Multi-MBN policy to solve the problem of frequently writing FLASH during MBN activation.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem that the AT port could not work normally after <b>AT+QXIIIR?</b> execution.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem of disconnection after USB suspended and then resumed.	R05A04_30. 005.30.005
<b>GENERAL</b>	Updated the cefs version to EG95_NA_V00011_202006171.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem that data sent and received by the module would lose after the module connected to the DTLS server.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem that <b>AT+QEEC?</b> could not get echo cancellation parameters.	R05A04_30. 005.30.005
<b>GENERAL</b>	Optimized the ubi read-write partition mounting and exception handling mechanism.	R05A04_30. 005.30.005
<b>GENERAL</b>	Optimized <b>AT+QPOWD=0</b> to fast shut down the module.	R05A04_30. 005.30.005
<b>GENERAL</b>	Solved the problem that Host could not obtain the IP from MBIM if the network only allocated IP without DNS address.	R05A04_30. 005.30.005
<b>GENERAL</b>	Updated the ATT MBN version to 202105271 to use the MTU size allocated by the network and change ue_usage_setting to DATA Centric.	R05A04_30. 005.30.005



GENERAL	Updated SE13 TABLE date to 2020/12/21.	R05A04_30. 005.30.005
GENERAL	Solved the problem that the uploaded ATT APN name of Object 11 instance 0 is null.	R05A04_30. 005.30.005
GENERAL	Modified the configuration of the 2nd profile (IMS) for TMO to change the OVERRIDEHOPDP to IPV6.	R05A04_30. 005.30.005
GENERAL	Disabled fast dormancy feature for TMO.	R05A04_30. 005.30.005
AUDIO	Solved the problem that audio settings did not take effect.	R05A04_01. 005.01.005
GENERAL	Solved the problem that no URC reported or no response returned for manufacturer command when executed <b>AT+CMEE=0</b> .	R05A04_01. 005.01.005
AUDIO	Solved the problem of one parameter was missing when queried via AT command <b>AT+QDAI=?</b> .	R05A04_01. 005.01.005
TCP/UDP	Solved the problem of one more blank space returning when queried default value via <b>AT+QCFG="NTP"</b> .	R05A04_01. 005.01.005
GENERAL	Disabled AT command <b>AT+QODM="hostdevice",0</b> for AT&T.	R05A04_01. 005.01.005
AUDIO	Supported new codec nau88c10.	R05A04_01. 005.01.005
NETWORK	Fixed the problem that no service got from CREG/CGREG/CREG while module was actually registering network after executing <b>AT+COPS=2</b> and <b>AT+COPS=1,2, "plmn"</b> .	R05A04_01. 005.01.005
NETWORK	Added cell blacklist function when RRC access failure reached a certain condition.	R05A04_01. 005.01.005
GENERAL	Optimized file system protection mechanism.	R05A05_01. 005.01.005
GENERAL	Optimized the OVERRIDEHOPDP type to null when TMO MBN was activated.	R05A05_01. 005.01.005
MQTT	Fixed stuck problem when sending/receiving MQTT data in weak signal.	R05A04_01. 004.01.004
NETWORK	Optimized <b>AT+QCOPS</b> to speed up the execution of this command.	R05A04_01. 004.01.004
NETWORK	Extended AT command <b>AT+QCOPS</b> to display multiple band points of a single LTE band in the response result.	R05A04_01. 004.01.004
NETWORK	Fixed stuck problem when APN settings was set for thousands times without stopping.	R05A04_01. 004.01.004
GENERAL	Fixed the following problems that FTM RX value was incorrect for the first time and the RX value was always 0 when entered or exited the factory mode.	R05A04_01. 004.01.004
TCP SSL	Fixed the problem that qsslsend&qisend still received data when socket was closed which could cause memory run out.	R05A04_01. 004.01.004
MQTT	Fixed the problem that the module would be stuck when AT command <b>AT+QMTPUBEX</b> sent data under the weak signal.	R05A04_01. 004.01.004



NETWORK	Fixed the problem that when TCP/UDP connected, the module would run out of memory when under weak signal.	R05A04_01.004.01.004
MQTT	Fixed the problem the when MQTT connection was established in the SSL mode, if the data delivered by the subscribed topic longer than 1024 bytes, the module could not report data.	R05A04_01.004.01.004
NETWORK	Fixed the problem when switching <b>AT+COPS=2</b> to <b>AT+COPS=0</b> or <b>AT+COPS=1</b> would cause the module unable to register the network before IMSI was ready.	R05A04_01.004.01.004
TCP SSL	Modified SSL to support TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384.	R05A04_01.004.01.004
NETWORK	Optimized AT command <b>AT+QCOPS</b> to restore band capability after executing this command.	R05A04_01.004.01.004
NETWORK	Optimized AT command <b>AT+QCOPS</b> to show more LTE cells.	R05A04_01.004.01.004
NETWORK	Optimized AT command <b>AT+QCOPS</b> to solved problem that executing <b>AT+COPS=0</b> would cause PPP disconnection.	R05A04_01.004.01.004
GENERAL	Optimized AT command <b>AT+QDSIM</b> that card slot was 1 under boot Initialization when this command set to an illegal value.	R05A04_01.004.01.004
TCP/UDP	Optimized AT command <b>AT+QISTATE</b> and <b>AT+QIACT?</b> to display IPV6 address.	R05A04_01.004.01.004
MQTT	Optimized AT command could subscribe to five topics at the same time at most.	R05A04_01.004.01.004
NTP/MQTT/FTP	Optimized NTP/MQTT/FTP to support IPV6 connection.	R05A04_01.004.01.004
GENERAL	Optimized USB enumeration logic.	R05A04_01.004.01.004
HTTP	Optimized AT command <b>AT+QHTTPSTOP</b> to solve blocked problem.	R05A04_01.004.01.004
TCP/UDP	Solved the problem that AT command <b>AT+QICLOSE</b> returned for long time when the TCP server return (FIN, ACK) at the same time.	R05A04_01.004.01.004
NETWORK	Solved the problem that scanning flag was not cleared when executing <b>AT+QCOPS</b> returned error.	R05A04_01.004.01.004
TCP/UDP	Solved the problem that after the TCP connection successfully established, immediately established the connection with the same parameters again would cause a dump.	R05A04_01.004.01.004
TCP/UDP	Solved the problem that when established multiple TCP connection, it was abnormally to loop QIRD quickly.	R05A04_01.004.01.004
AUDIO	Fixed the problem AUDIO related commands couldn't be executed when rebooting without codec.	R05A04_01.004.01.004
SMS	Fixed the problem that when under the VERIZON network, it would fail to used AT command <b>AT+QCMGS</b> to send the content with the international number.	R05A04_01.004.01.004
GENERAL	Included Telus MBN.	R05A04_01.004.01.004

GENERAL	Optimized AT command <b>AT+QODM="dme",2,"ui"</b> during DFOTA process.	R05A04_01.004.01.004
GENERAL	Changed response format of <b>AT+CEER</b> to +CEER: <locationID>,<cause>.	R05A04
GENERAL	Supported to configure numeric and string code by <b>AT+CEER</b> Default is numeric.	R05A04
GENERAL	Extended <b>AT+QCOPS</b> command to support display LTE cell id.	R05A04
GENERAL	Fixed bug that module will be stuck when neighbor cell list is too much for <b>AT+QENG="neighbourcell"</b> .	R05A04
HTTP	Fixed bug that URC of HTTP time out is blocked when socket connection cannot be established.	R05A04
HTTP	Changed maximum time out value to 5000 ms to close HTTP socket.	R05A04
PPP	Fixed bug that "NO CARRIER" couldn't be reported in rare cases.	R05A04
GENERAL	Fixed the band to B4 and B13 when inserting SIM card of Verizon.	R05A04

## 5. Known Issues

Item/Category	Brief Description
/	/

## 6. Functions

### Basic Function

SMS	Voice Call	Data Call	USSD	PHB	STK	CMUX	FILE <sup>1)</sup>	FAX
Y	Y	N	N	Y	N	Y	Y	N

### Protocol Function

QMI	TCP/UDP	PPP	FTP	NITZ	NTP	HTTP	PING	TCP SSL
Y	Y	Y	Y	Y	Y	Y	Y	Y
MQTT	MMS <sup>2)</sup>	SMTP	SMTPS	HTTPS				
Y	Y	Y	Y	Y				

### Special Function

SIM Detection	DFOTA	DTMF <sup>3)</sup>	Dual UART	TTS	Quec Locator 2.0 <sup>4)</sup>	DSSS	UAC	LowPower
Y	Y	Y	Y	Y	Y	Y	Y	Y
RMNET	ECM	RNDIS						
Y	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.
5. <sup>3)</sup> Supports DTMF decoding only.
6. <sup>4)</sup> 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.
7. Verification Environment is shown below. For more details, please contact Quectel technical support.

For Windows,

USB Driver: Quectel\_LTE\_Windows\_USB\_Driver\_V2.1~V2.2

Qflash Tool: QFlash\_V5.4

For Linux,

Qflash Tool: LTE&LTE-A\_QFlash\_Linux&Android\_V2.0  
USB Driver: Quectel\_LTE&5G\_Linux\_USB\_Driver\_V1.0  
Quectel-CM Tool: Quectel\_QConnectManager\_Linux\_V1.6.0.15  
QLog Tool: Quectel\_QLog\_Linux&Android\_V1.4.10  
QMI\_WWAN Driver: Quectel\_Linux&Android\_QMI\_WWAN\_Driver\_V1.2.0.14  
GobiNet Driver: Quectel\_Linux&Android\_GobiNet\_Driver\_V1.6.2.9

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