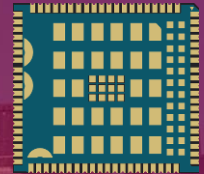


# Quectel EC25 Series

IoT/M2M-optimized  
LTE Cat 4 Module



## EC25-EM-GC

# Release Notes

### LTE Standard Module Series

Rev. EC25-EM-GC\_Firmware\_Release\_Notes\_V0804\_A0.001.A0.001

Date: 2024-08-19

Our aim is to provide customers with timely and comprehensive service. For any assistance, please contact our company headquarters:

**Quectel Wireless Solutions Co., Ltd.**

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

Tel: +86 21 5108 6236

Email: [info@quectel.com](mailto:info@quectel.com)

**Or our local office. For more information, please visit:**

<http://www.quectel.com/support/sales.htm>.

**For technical support, or to report documentation errors, please visit:**

<http://www.quectel.com/support/technical.htm>

Or email to [support@quectel.com](mailto:support@quectel.com).

**Disclaimer**

While Quectel has made efforts to assure the accuracy of this document, unless otherwise provided by valid agreement, Quectel assumes no liability resulting from any inaccuracies or omissions in this document, or from use of the information obtained herein. Quectel reserves the right to make changes to any contents described herein and reserves the right to revise this document and to make changes from time to time in content hereof with no obligation to notify any person of revisions or changes. Before using any updated software, please read this statement carefully. By accessing or using the said software you irrevocably and unconditionally accept and confirm that you agree to be bound by this statement. In the event you disagree with any provision hereof and would not like to be bound by this statement you shall cease use of the said software immediately.

**Duty of Confidentiality**

The Receiving Party shall keep confidential all documentation and information provided by Quectel, except when the specific permission has been granted by Quectel. The Receiving Party shall not access or use Quectel's documentation and information for any purpose except as expressly provided herein. Furthermore, the Receiving Party shall not disclose any of the Quectel's documentation and information to any third party without the prior written consent by Quectel. For any noncompliance to the above requirements, unauthorized use, or other illegal or malicious use of the documentation and information, Quectel will reserve the right to take legal action.

**Copyright**

The information contained here is proprietary technical information of Quectel Wireless Solutions Co., Ltd. Transmitting, reproducing, disseminating and editing this document as well as using the content without permission are forbidden. Offenders will be held liable for payment of damages. All rights are reserved in the event of a patent grant or registration of a utility model or design.

***Copyright © Quectel Wireless Solutions Co., Ltd. 2024. All rights reserved.***

## Contents

<b>Contents .....</b>	<b>2</b>
<b>1. Release Content .....</b>	<b>3</b>
<b>2. Matters Needing Attention .....</b>	<b>3</b>
<b>3. Release History .....</b>	<b>3</b>
3.1. Firmware Release History .....	4
3.2. New Features .....	4
3.3. Improved Features .....	4
3.4. Known Issues .....	5
<b>4. Functions List.....</b>	<b>6</b>

Quectel  
Confidential

## 1. Release Content

This document provides the Release Notes for EC25-EM-GC. The current release includes the following firmware packages.

Package	Firmware Version	Configuration Version
Firmware	EC25EMGCR08A04M1G	A0.001.A0.001

## 2. Matters Needing Attention

SN	Item
[1]	Multiple PDN is not supported by MBIM.
[2]	The current firmware version supports Secure Boot and Secure Debugging, and the Quectel signature is included in the security firmware versions by default. Whether Secure Boot is enabled by default when the firmware version is shipped from the factory depends on the OC you select. Secure Debugging is disabled by default and you can enable it with AT commands as required.
[3]	To extend the service life of flash, it is recommended that the total number of operations related to powering on/off the module, CFUN switching, SIM card hot swapping, dual-SIM switching, or repeated execution of NVM commands should not exceed 30 times per day.
[4]	It is not recommended to directly modify the pre-set APN profiles. Please create an APN profile after the existed CID number. Suppose you modify the APN profile of IMS, SOS, etc. with added specific attributes, these attributes are hidden after modification, causing the profile to still be unavailable.
[5]	<p><b>AT+QGDCNT=1</b> and <b>AT+QPDPGDCNT=1</b> will write data to the flash. Therefore, please do not execute the AT commands frequently. <b>AT+QAUGDCNT</b> is used in conjunction with the above commands to automatically save the packet data counter.</p> <ol style="list-style-type: none"> <li>If there are no mandatory needs, it is not recommended to use these AT commands;</li> <li>The time interval set by the timer needs to be lengthened when you use these AT commands.</li> </ol>
[6]	Cross-baseline software version update is not supported. For EC25EMGCR08A04M1G, "R08" represents the baseline information. This Quectel module does not support updating to a firmware version other than R08. If you have any related requirements, please contact Quectel Technical Support.
[7]	During the FOTA upgrade process, it is necessary to ensure the stable power supply of the module. If the power is disconnected during the upgrade, there is a small probability that

the flash will be damaged.

## 3. Release History

### 3.1. Firmware Release History

Firmware Version	Configuration Version	Description
EC25EMGCR08A04M1G	A0.001.A0.001	Mass production.
EC25EMGCR08A03M1G	01.001.01.001	Mass production.

### 3.2. New Features

EC25EMGCR08A04M1G_A0.001.A0.001	
Item	Brief Description
DFOTA	Supported setting the connection and download expiration time of FOTA download through <b>AT+QFOTATIMECFG</b> , and set the time to 600 seconds by default.
DFOTA	Supported downloading the delta package through HTTPS without skipping certificate verification in FOTA.
Security	Added Secure Boot and Secure Debugging.
GENERAL	Added <b>AT+QLEDFUNC</b> to set or query the NET_STATUS and STATUS pins.
EC25EMGCR08A03M1G_01.001.01.001	
Item	Brief Description
/	/

### 3.3. Improved Features

EC25EMGCR08A04M1G_A0.001.A0.001	
Item	Brief Description
NETWORK	Fixed the problem that after the called party refused to answer, the caller could only hear the ringback tone, but could not hear the voice prompt sent by the network.

**NETWORK** Optimized **AT+QOPS** to solve the band scanning issue.

**GENERAL** Fixed the problem of small probability abnormality of ATFWD process.

EC25EMGCR08A03M1G\_01.001.01.001

Item	Brief Description
/	/

### 3.4. Known Issues

Item	Bug Description
/	/

#### NOTE

Verification Environment is shown below. For more details, please contact Quectel technical support.

For Windows,

QFlash Tool: QFlash\_ V7.0

For Linux,

QFirehose Tool: QFirehose\_Linux\_Android\_V1.4.19

USB Driver: Quectel\_Linux\_USB\_Serial\_Option\_Driver\_20240624

Quectel-CM Tool: Quectel\_QConnectManager\_Linux\_V1.6.7

QLog Tool: QLog\_Linux\_Android\_V1.5.24

QMI\_WWAN Driver: Quectel\_Linux\_Android\_QMI\_WWAN\_Driver\_V1.2.7

GobiNet Driver: Quectel\_Linux\_Android\_GobiNet\_Driver\_V1.6.5

## 4. Functions List

Category	Item	Supported Version (Since)	Note
Basic Function	SMS	EC25EMGCR08A03M1G_01.001.01.001	/
	Voice Call	EC25EMGCR08A03M1G_01.001.01.001	/
	Data Call	/	Not supported currently.
	USSD	/	Not supported currently.
	PHB	EC25EMGCR08A03M1G_01.001.01.001	/
	CMUX	EC25EMGCR08A03M1G_01.001.01.001	/
	FILE	EC25EMGCR08A03M1G_01.001.01.001	Supports RAM FILE only.
	Fax	/	Not supported currently.
Protocol Function	STK	/	Not supported currently.
	QMI	EC25EMGCR08A03M1G_01.001.01.001	/
	TCP/UDP	EC25EMGCR08A03M1G_01.001.01.001	/
	PPP	EC25EMGCR08A03M1G_01.001.01.001	/
	MMS	EC25EMGCR08A03M1G_01.001.01.001	Supports MMS sending only.
	FTP	EC25EMGCR08A03M1G_01.001.01.001	/
	SMTP	EC25EMGCR08A03M1G_01.001.01.001	/
	HTTP	EC25EMGCR08A03M1G_01.001.01.001	/
	NITZ	EC25EMGCR08A03M1G_01.001.01.001	/
	PING	EC25EMGCR08A03M1G_01.001.01.001	/
	NTP	EC25EMGCR08A03M1G_01.001.01.001	/
	SMTPS	EC25EMGCR08A03M1G_01.001.01.001	/
	HTTPS	EC25EMGCR08A03M1G_01.001.01.001	/
	TCP SSL	EC25EMGCR08A03M1G_01.001.01.001	/

	MQTT	EC25EMGCR08A03M1G_01.001.01.001	/	
	DTMF	EC25EMGCR08A03M1G_01.001.01.001	Supports decoding only.	DTMF
	Dual UART	EC25EMGCR08A03M1G_01.001.01.001	/	
	DFOTA	EC25EMGCR08A03M1G_01.001.01.001	/	
	SIM Detection	EC25EMGCR08A03M1G_01.001.01.001	/	
	Low Power	EC25EMGCR08A03M1G_01.001.01.001	/	
Special Function	RMNET	EC25EMGCR08A03M1G_01.001.01.001	/	
	ECM	EC25EMGCR08A03M1G_01.001.01.001	/	
	SD	EC25EMGCR08A03M1G_01.001.01.001	/	
	RNDIS	EC25EMGCR08A03M1G_01.001.01.001	/	
	UAC	EC25EMGCR08A03M1G_01.001.01.001	/	
	MBIM	EC25EMGCR08A03M1G_01.001.01.001	/	
	Security	EC25EMGCR08A04M1G_A0.001.A0.001	Support Secure Boot and Secure Debugging.	



## About Quectel

Quectel's passion for a smarter world drives us to accelerate IoT innovation. As a highly customer-centric organization, we are a global IoT solution provider backed by outstanding support and services. Our growing global team of 5,900 professionals sets the pace for innovation in cellular, automotive, smart, GNSS, satellite, Wi-Fi and Bluetooth modules as well as antennas and services.

With regional offices and support across the globe, our international leadership is devoted to advancing IoT and building a smarter world.

