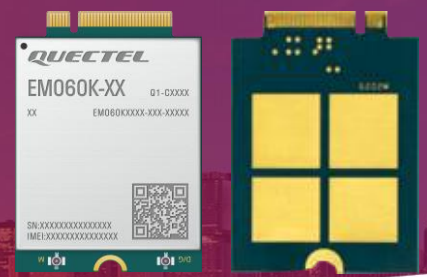


Quectel EM060K-GL

LTE-A Cat 6 M.2 Modules



EM060K-GL_USB

Release Notes

LTE-A Module Series

Rev. EM060K-GL_USB_R01A11_01.006.01.006.01.006

Date: 2023-12-21

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

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.

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. 2023. All rights reserved.

Contents

Contents	2
1. Verification Environment	3
2. Release History	3

Quectel
Confidential

1. Verification Environment

Chrome OS Version: Version 122.0.6177.0 (official Build) unknown(64-bit)

QFlash tool: Qflash_6.7

2. Release History

Version/Release Date	Description
2023-12-21	<p>FW (EM060KGLAAR01A11M2G_01.006.01.006.01.006– Generic EM060KGLAAR01A12M2G_01.106.01.006.01.106- Verizon)</p> <ol style="list-style-type: none"> Updated firmware version: EM060KGLAAR01A11M2G_01.006.01.006.01.006 - Generic EM060KGLAAR01A12M2G_01.106.01.006.01.106 – Verizon Solved the problem of Verizon Class3 APN update. [316220147] Improve the AVL AUTO TEST of "cellular.ShillConnectToSecondarySim". <p>Known Issue:</p> <ol style="list-style-type: none"> The black list and white list of carrier_lock can only support one type of lock data at the same time. carrier_lock unlock feature is not supported. <p>Notes:</p> <ol style="list-style-type: none"> Firmware switching feature is supported by the following versions: EM060KGLAAR01A11M2G_01.006.01.006.01.006 - Generic EM060KGLAAR01A12M2G_01.106.01.006.01.106 – Verizon After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128 and AT+QSIMCFG="slots_eid". Generic: 01.006.01.006.01.006 -> Main: 01.006/OEM: 01.006/Carrier: 01.006 Verizon: 01.106.01.006.01.106 -> Main: 01.106/OEM: 01.006/Carrier: 01.106
2023-12-08	<p>FW (EM060KGLAAR01A11M2G_01.005.01.005.01.005 – Generic EM060KGLAAR01A12M2G_01.105.01.005.01.105 - Verizon)</p> <ol style="list-style-type: none"> Updated firmware version: EM060KGLAAR01A11M2G_01.005.01.005.01.005 - Generic EM060KGLAAR01A12M2G_01.105.01.005.01.105 – Verizon [313988546] Solved the problem that could not install eSIM profile.

Known Issue:

1. The black list and white list of carrier_lock can only support one type of lock data at the same time.
2. carrier_lock unlock feature is not supported.

Notes:

1. Firmware switching feature is supported by the following versions:
EM060KGLAAR01A11M2G_01.005.01.005.01.005 - Generic
EM060KGLAAR01A12M2G_01.105.01.005.01.105 – Verizon
2. After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128 and **AT+QSIMCFG="slots_eid"**.
3. Generic: 01.005.01.005.01.005 -> Main: 01.005/OEM: 01.005/Carrier: 01.005
Verizon: 01.105.01.005.01.105 -> Main: 01.105/OEM: 01.005/Carrier: 01.105

**FW (EM060KGLAAR01A11M2G_01.004.01.004.01.004 – Generic
EM060KGLAAR01A12M2G_01.104.01.004.01.104 - Verizon)**

1. Updated firmware version:
EM060KGLAAR01A11M2G_01.004.01.004.01.004 - Generic
EM060KGLAAR01A12M2G_01.104.01.004.01.104 – Verizon
2. [307989661] Solved the problem of “cellular.ShillConnectToSecondary Sim” test failure.
3. Optimized booting time.
4. [308999797] Solved the problem that the eSIM option was not visible on the UI.
5. Configured home band for carriers.

Known Issue:

1. The black list and white list of carrier_lock can only support one type of lock data at the same time.
2. carrier_lock unlock feature is not supported.

Notes:

4. Firmware switching feature is supported by the following versions:
EM060KGLAAR01A11M2G_01.004.01.004.01.004 - Generic
EM060KGLAAR01A12M2G_01.104.01.004.01.104 – Verizon
5. After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128 and **AT+QSIMCFG="slots_eid"**.
6. Generic: 01.004.01.004.01.004 -> Main: 01.004/OEM: 01.004/Carrier: 01.004
Verizon: 01.104.01.004.01.104 -> Main: 01.104/OEM: 01.004/Carrier: 01.104

**FW (EM060KGLAAR01A11M2G_01.003.01.003.01.003 – Generic
EM060KGLAAR01A12M2G_01.103.01.003.01.103 - Verizon)**

2023-11-24

2023-11-03

1. Updated firmware version: EM060KGLAAR01A12M2G_01.103.01.003.
01.103 – Verizon

Known Issue:

1. AVL automation test case cellular ShillConnectToSecondarySim. test failure.
2. The black list and white list of carrier_lock can only support one type of lock data at the same time.
3. carrier_lock unlock feature is not supported.

Notes:

1. Firmware switching feature is supported by the following versions:
EM060KGLAAR01A11M2G_01.003.01.003.01.003 - Generic
EM060KGLAAR01A12M2G_01.103.01.003.01.103 - Verizon
2. After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128 and **AT+QSIMCFG="slots_eid"**.
3. Generic: 01.003.01.003.01.003 -> Main: 01.003/OEM: 01.003/Carrier: 01.003
Verizon: 01.103.01.003.01.103 -> Main: 01.103/OEM: 01.003/Carrier: 01.103

FW (EM060KGLAAR01A11M2G_01.003.01.003.01.003)

1. Firmware version: EM060KGLAAR01A11M2G_01.003.01.003.01.003 – Generic
2. Enabled Secure Boot feature by default.
3. Added T-Mobile-IoT MBN.
4. Removed Audio and GSM features.
5. Removed XZ compression.

Known Issue:

1. AVL automation test case cellular ShillConnectToSecondarySim. test failure.
2. The black list and white list of carrier_lock can only support one type of lock data at the same time.
3. carrier_lock unlock feature is not supported.

Notes:

1. Firmware switching feature is supported with beta version:
EM060KGLAAR01A12M2G_BETA1012_01.102.01.003.01.102.
2. After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128 and **AT+QSIMCFG="slots_eid"**.
3. 01.003.01.003.01.003 -> Main: 01.003/OEM: 01.003/Carrier: 01.003

FW (EM060KGLAAR01A11M2G_01.002.01.002.01.002)

1. Firmware version: EM060KGLAAR01A11M2G_01.002.01.002.01.002 – Generic

2023-10-20

2023-09-22

2. Supported carrier_lock.
3. Supported USB 3.0.

Known Issue:

1. AVL automation test case cellular ShillConnectToSecondarySim. test failure.
2. The black list and white list of carrier_lock can only support one type of lock data at the same time.
3. carrier_lock unlock feature is not supported.

Notes:

1. Firmware switching feature is supported with beta version: EM060KGLAAR01A12M2G_BETA0919_01.101.01.002.01.101.
2. After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128 and **AT+QSIMCFG="slots_eid"**.
3. **01.002.01.002.01.002** -> **Main: 01.002/OEM: 01.002/Carrier: 01.002.**

FW (EM060KGLAAR01A11M2G_01.001.01.001.01.001)

1. First release.
2. Supported the SIM hot-swap function.
3. Supported all port mode by default.
4. Displayed WWAM MBIM name as Quectel EM060K-GL on system.
5. Supported IPv4 and IPv6 MTU function.
6. Supported W_DISABLE1# pin to enable or disable airplane mode through hardware operation.
7. Added **AT+QSIMCFG="slots_eid"** to get the eID of slot 1 and slot 2 of eSIM card.
8. Supported software DPR function for Chrome OS.
9. Supported firmware switching function. (The firmware package size is smaller than 185 MB, up to 4 firmware).
10. Updated PID to 0X0128 by default.
11. Disabled Band 32 and Band 46 according to Lenovo requirement.
12. Supported firmware version details parsing from modemfwupd.
13. Supported Multi PDN.
14. Supported SLAAC.

2023-08-24

Known Issue:

- 1 AVL automation test case cellular ShillConnectToSecondarySim. test failure.

Notes:

- 1 Completed AVL auto test with Lenovo 100e laptop.
- 2 Not supported API for carrier lock function.
- 3 Firmware switching feature is supported with beta version.
- 4 After Lenovo FVT phase sample (with Lenovo PN) support PID:0X0128

and AT+QSIMCFG="slots_eid".

Quectel
Confidential

About Quectel

Quectel Wireless Solutions is the leading global supplier of cellular and GNSS modules, with a broad product portfolio covering the most recent wireless technologies of 5G, LTE/LTE-A, NB-IoT/LTE-M, UMTS/HSPA(+), GSM/GPRS and GNSS. As a professional IoT (Internet of Things) technology developer and cellular module supplier, Quectel is able to provide one-stop services for IoT cellular modules. Quectel products have been widely applied in IoT/M2M fields including smart payment, telematics and transport, smart energy, smart cities, security, wireless gateways, industry, healthcare, agriculture, and environment monitoring.

