

EP06-A-LA Release Notes

LTE-A Module Series

Rev. EP06-A-LA_Firmware_Release_Notes_V0208_01.009.01.009

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1. Preamble

This document provides the Release Notes for firmware version **EP06ALAR02A08M4G** (Configuration version **01.009.01.009**). It describes major changes compared to firmware version **EP06ALAR02A08M4G** (Configuration version **01.008.01.008**).

2. Matters Needing Attention

SN	Brief Description
[1]	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.
[2]	It is not recommended to directly modify the pre-set APN profiles. Please create an APN profile after the existed CID number.
[3]	The module enables the "reboot after dump" mode by default. It is not recommended to modify this configuration.
[4]	AT+QGDCNT=1 , AT+QGDNRCNT and AT+QPDPGDCNT=1 will write data to the flash. Therefore, please do not execute the AT commands frequently. AT+QAUGDCNT is used in conjunction with the above commands to automatically save the packet data counter. ((1) If there is no mandatory needs, it is not recommended to use these AT commands; (2) The time interval set by the timer needs to be lengthened when you use these AT commands.)

3. New Features

Item/Category	Brief description	Since
GENERAL	Supported the feature that the module can be compatible with MXD86C2G device.	R02A08_01.0 07.01.007
GENERAL	Added the following AT commands: <ul style="list-style-type: none"> Added AT+QCFG="CLAT" to enable or disable CLAT. Added AT+QCFG="rollback" to query whether software anti-rollback feature is supported. 	R02A08_01.0 05.01.005
GENERAL	Supported XLAT.	R02A08_01.0 05.01.005
NETWORK	Supported 3G sunset of AT&T.	R02A08_01.0 03.01.003
GENERAL	Added AT+QMAP="LANIP" to set gateway IP and IP address pool.	R02A08_01.0 03.01.003

GENERAL	Added AT+QGMR , AT+QAPVER , AT+QSUB and AT+QAPSUB to query the AP version.	R02A08_01.0 02.01.002
GENERAL	Disabled URC automatic report feature for ATT OMA by default.	R02A08
SMS	Enabled URC +QINDCFG: "smsfull" report when SMS is full.	R02A08
USB	Set the default value to USB 3.0.	R02A08
GENERAL	Supported LwM2M feature in ATT certification.	R02A08
SMS	Supported to save messages by default.	R02A08
GENERAL	Enabled LwM2M self-registration feature.	R02A08
GENERAL	Added the default output value of AT+QHVN .	R02A08
AUDIO	Added AT command AT+QAUDCFG="nau8810/config" to set register of the 8810 codec.	R02A07
GENERAL	Supported single package upgrade solution.	R02A07
GENERAL	Added Telus MBN of 0x06800801.	R02A07
SMS	Added AT command AT+QCLASS0 .	R02A06
VOLTE	Added AT commands AT+QIMSCFG="IMPI" , AT+QIMSCFG="DOMAIN" and AT+QIMSCFG="IMPU" .	R02A06
NETWORK	Added below AT commands AT+QNETINFO="cmr" , AT+QNETINFO="cmrctl" and AT+QNETINFO="servingcell" .	R02A06
GENERAL	Added AT command AT+QCSQ .	R02A05
GENERAL	Added AT command AT+QTEMPSTAT .	R02A05
GENERAL	Added AT command AT+QODM="hostdevice" for ATT OMA.	R02A05
SMS	Added AT command AT+QCFG="ltesms/format" .	R02A05
VOICE CALL	Added AT command AT+QECCNUM=4 to restore QECCNUM to factory configuration.	R02A05
NETWORK	Added AT command AT+QCFG="qcautoconnect" .	R02A05
VOICE CALL	Added codec nau88c10 for Verizon certification.	R02A04
GENERAL	Added below AT commands: AT+QGPIOR , AT+QGPIOW , AT+QGPIOS .	R02A04
GENERAL	Added subcommand AT+QCFG="fast/poweroff" .	R02A04
NETWORK	Added AT command: AT+QNWLOCK="common/lte" .	R02A04
GNSS	Added subcommand AT+QCFG="POACCEPT" .	R02A04

NETWORK	Added subcommand AT+QCFG="redir/3gtolte" .	R02A04
GENERAL	Added AT+QAUDCFG="voldedtmfcfg" .	R02A03
GENERAL	Added AT+QADC .	R02A03
GENERAL	Added SAR for WCDMA Band 3/6/19.	R02A03
NETWORK	Added self-adaption scheme for Verizon/ATT/TMO.	R02A03
NETWORK	Enabled the MBN AUTO-SELECT.	R02A03

4. Improved Features

Item/Category	Brief description	Since
SMS	Solved the problem that the messages failed to be read through QMI first after the module was booted.	R02A08_01.0 09.01.009
GENERAL	Solved the problem that AT+QODM could not be used normally.	R02A08_01.0 09.01.009
SIM Detection	Solved the problem that the (U)SIM card 2 could not be recognized when the (U)SIM card was switched to the (U)SIM card 2 after the execution of AT+QDSIM .	R02A08_01.0 08.01.008
SMS	Solved the problem that the module could not work normally when the SMS message storage space of the module was full and then SMS messages were deleted.	R02A08_01.0 06.01.006
NETWORK	Solved the problem of incorrect data returned after the execution of AT+COPS .	R02A08_01.0 05.01.005
NETWORK	Solved the problem of incorrect data returned after the execution of AT+QENG="servingcell" under WCDMA.	R02A08_01.0 05.01.005
GENERAL	<ol style="list-style-type: none"> Solved the problem of MBIM dial-up failure as QMI_DSD_SYSTEM_STATUS_IND was not reported by the module after the Verizon network registration. Solved the problem that IMS could not be registered normally because of Verizon MBN configuration failure. 	R02A08_01.0 05.01.005
GENERAL	Solved the problem that the uplink data was blocked when the cell was switched under certain networks.	R02A08_01.0 05.01.005
GENERAL	Modified OVRIDEHOPDP in TMO MBN profile to NULL and Home+Roaming in TMO MBN profile to IPV4V6.	R02A08_01.0 05.01.005
GENERAL	Expanded AT+QSIMLOCK to support <password> with a maximum length of 16 characters and unlock the personalized device lock.	R02A08_01.0 05.01.005
GENERAL	Solved the problem that modem did not respond to DHCP unicast packets.	R02A08_01.0 05.01.005

GENERAL	Added the parameter <effect> to AT+QCFG="usbnet" to control whether the command takes effect immediately.	R02A08_01.0 05.01.005
FOTA	Solved the problem that the module rebooted abnormally when it was upgrading to 79% via HTTPS DFOTA and was then powered down.	R02A08_01.0 04.01.004
GENERAL	Solved the problem that AT+QLTS did not take effect.	R02A08_01.0 03.01.003
GENERAL	Solved the problem that the IPv4 type could not be configured through AT+QICSGP .	R02A08_01.0 03.01.003
GENERAL	Fixed the security vulnerability of CVE-2021-31698.	R02A08_01.0 03.01.003
GENERAL	Fixed the problem that AT command AT+CPBR could not read the SIM ECC number.	R02A08
GENERAL	Fixed the problem that the maximum channel rate could not be obtained when online dialing.	R02A08
SMS	Solved the problem of sending SMS failure when the customer executing AT+CFUN to switch to different operators SIM cards.	R02A08
SMS	Solved the problem that the SCA address could not change to current operator after SIM card hot-plugging function was enabled.	R02A08
SMS	Modified the SMS storage upper limit of 3GPP to 255 and of 3GPP2 to 99.	R02A08
SMS	Fixed the problem of garbled characters sent by SMS.	R02A08
NETWORK	For AT command AT+QNWLOCK="common/4g" , the parameter configuration would not be saved after rebooting.	R02A08
DFOTA	Reduced DFOTA upgrading time.	R02A08
SMS	Solved the problem that the encoding method for reading GSM encoded SMS was incorrect.	R02A08
SMS	Optimized SMS feature that error code 321 would be reported when reading the deleted messages.	R02A08
GENERAL	Solved the problem of "\r\n" missing in the first line when executed AT command AT+QMBNCFG="list" .	R02A07
GENERAL	Solved the problem that a more band 8 displayed under WCDMA.	R02A07
NETWORK	Solved the problem that no base station information returned when executed AT command AT+CREG? under 3G network.	R02A07
GENERAL	Solved the problem that the value of manu and model could not be changed by AT command AT+QODM="hostdevice" .	R02A07
GENERAL	Solved the problem of no USB enumeration and no progress reporting when conducting OMA FOTA upgrade.	R02A07
GENERAL	Optimized parameter partition restore mechanism to solved the problem that after executing AT+CFUN=1,1 , parameter partition would be restore unexpectedly.	R02A07

GENERAL	Supported to update operator MBN after upgrading module FW.	R02A07
GENERAL	Solved the return error after executing AT+QCFG="usbee" .	R02A07
SMS	Solved the problem that the SMS content with GSM-7bit would be incorrect when queried via AT+QCMGR under Verizon network.	R02A07
SMS	Solved the problem that the SMS content would be garbled when used AT+QCMGS to send long SMS to itself under Verizon network.	R02A07
GENERAL	Solved the usb pid error when downloading via QPST Sahara mode and powering off.	R02A07
SIMCARD	Solved the problem that no error reporting if there was a space in AT+QSIMDET=1,0 .	R02A07
NETWORK	Solved the problem that if Chinese comma in AT command AT+QCFG="servicedomain",2 was set, the execution could be successful expectedly.	R02A07
SMS	Solved the problem that more newline displayed when module wrote or sent SMS.	R02A06
NETWORK	Solved the problem that the returned band66 description was incorrect when queried via AT command AT+QNWINFO .	R02A06
GNSS	Optimized AT command AT+QGPSSUPLCA to solve the return error.	R02A06
GNSS	Optimized AT command AT+QGPSXTRATIME to solve the problem that when UTC time was converted to GPS time, it would increase by 5 hours.	R02A06
GENERAL	Fixed the problem that there was no URC report or response when executed AT+CMEE=0 .	R02A06
NETWORK	Solved the problem that when AT command AT+QICSGP set APN, username, password, it would ignore case.	R02A06
GENERAL	Fixed the problem of AT+QCFG="band",800 execution error under WCDMA Only mode.	R02A06
GENERAL	Supported self-checking feature to restore parameter partition when network appeared unknown serious error.	R02A06
GENERAL	Optimized security mechanism.	R02A06
GENERAL	Fixed CREG URC format error.	R02A05
VOICE CALL	Fixed the problem that when dial *31# and #31#, SIP INVITE didn't include privacy header.	R02A05
GENERAL	Modified the USB product information of the derivative project to show the information of the original project.	R02A05
GENERAL	Updated 3GPP MBN to 0x06010821. Updated CMCC MBN to 0x06012064. Updated CU MBN to 0x06011510. Updated ATT MBN to 0x0601036F. Updated Verizon MBN to 0x060101A0.	R02A05
VOICE CALL	Solved the probabilistic problem of no sound on the first boot after	R02A05

	downloading the firmware.	
GENERAL	Solved the problem of ATT OMA WAP SMS forwarding failure.	R02A05
NETWORK	Fixed the problem of reporting DEACT information twice after executing AT+CGACT when AT+CGEREP=2,1 was set.	R02A05
SIMCARD	Supported dual card switching.	R02A05
NETWORK	Fixed stuck problem when APN settings was set for thousands times without stopping.	R02A05
NETWORK	Fixed the problem that no service got from CREG/CGREG/CREG while module was re-registering network after executing AT+COPS=2 and AT+COPS=1,2,"plmn" .	R02A05
GENERAL	Optimized parameter partition restore mechanism.	R02A05
NETWORK	Optimized socket mechanism.	R02A05
GENERAL	Corrected RSSI value reported by AT+QCSQ=1 URC.	R02A05
VOICE CALL	Solved the probabilistic problem of no sound when used 8810codec to call.	R02A05
NETWORK	After COPS was set to manual mode, the AT+QCFG="band" command was allowed to execute.	R02A05
GNSS	Modified the voltage of GPS ant connector to 2.8V.	R02A05
GENERAL	Solved the problem that OMADM URC could not be reported.	R02A05
VOLTE	Solved the problem of executing AT+VTS returned error after HOLD/UNHOLD operation under VOLTE call.	R02A04
NETWORK	Solved the problem that query results of creg/cgreg was different when the module switched from roaming state to home state.	R02A04
NETWORK	Changed the parameter of AT command AT+QCAINFO from PSS, SSS to PCC, SCC.	R02A04
VOICE CALL	Solved the problem that the returned format was incorrect when queried via AT command AT+CEER .	R02A04
NETWORK	Solved the problem that AT+QAUGDCNT autosave setting could not take effect.	R02A04
GENERAL	Fixed the problem that AT+CTZR enabled synchronous report, but no +CTZE report after the module reboot.	R02A04
LOW POWER	Solved the problem that the returned format was incorrect when queried via AT command AT+QSCLK .	R02A04
LOW POWER	Optimized AT command AT+QSCLK to save parameter.	R02A04
GENERAL	Updated RF parameters (20180713).	R02A03

5. Known Issues

Item/Category	Brief Description
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6. Functions

Basic Function

SMS	Voice Call	FILE ¹⁾
Y	Y	Y

Protocol Function

QMI	NITZ
Y	Y

Special Function

FOTA	SIM Detection	Low Power
Y	Y	Y

NOTE

- Y means the firmware supports this function.
- N means the firmware does not support this function.
- ¹⁾ Supports UFS FILE only.
- Verification Environment is shown below. For more details, please contact Quectel technical support.
For Windows,
USB Driver: Quectel_Windows_USB_Driver(Q)_NDIS_V2.7.9.zip
QFlash Tool: QFlash_V6.8

For Linux,
QMI_WWAN Driver: Quectel_Linux_Android_QMI_WWAN_Driver_V1.2.2.zip
GobiNet Driver: Quectel_Linux_GobiNet_Driver_V1.6.3.zip
QFirehose Tool: QFirehose_Linux_Android_V1.4.18.zip
Quectel-CM Tool: Quectel_QConnectManager_Linux_V1.6.5.zip