

EP06-E-LA Release Notes

LTE-A Module Series

Rev. EP06-E-LA_Firmware_Release_Notes_V0422

Date: 2023-12-12



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1. Preamble

This document provides the Release Notes for EP06-E-LA firmware version **EP06ELAR04A22M4G**. It describes major changes compared to EP06-E-LA firmware version **EP06ELAR04A21M4G**.

2. Matters Needing Attention

SN	Brief Description
[1]	The new firmware version cannot be downgraded to versions released before EP06ELAR04A20M4G, otherwise the module will not be able to work normally.
[2]	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.
[3]	It is not recommended to directly modify the pre-set APN profiles. Please create an APN profile after the existed CID number.
[4]	The module enables the "reboot after dump" mode by default. It is not recommended to modify this configuration.
[5]	AT+QGDCNT=1 , AT+QGDNRCNT and AT+QDPGDCNT=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
ESIM	Added ESIM LPA feature.	R04A21
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. 	R04A21
NETWORK	Relevant technical controls have been carried out to restrict normal network registration in regions such as RUS and IRN, thus	R04A20

	ensuring that the module can be used only for civilian applications.	
GENERAL	The new firmware version cannot be downgraded to previous versions, otherwise the module will not be able to work normally.	R04A20
GENERAL	Added the following AT commands: <ul style="list-style-type: none"> ● AT+QAUDCFG="slic_cid_cfg" to set the caller ID mode of SLIC. ● AT+QRSRP to query the RSRP of the current service network. 	R04A20
GENERAL	Added AT+QSCAN to search for nearby LTE cell information.	R04A06
NETWORK	Added AT+QMAP="LANIP" to configure the default gateway.	R04A05
GENERAL	Added AT+QIPV6PDCFG to enable IPv6 delegate prefix.	R04A05
GENERAL	Added AT+QIPV6PD to query IPv6 delegate prefix.	R04A05
GNSS	Added AT+QGPSXTRACFG to configure the Xtra data and added AT+QGPSXTRAUPD to update the Xtra data in GPS system.	R04A05
SMS	Added AT+QCFG="sms_control" to enable/disable to deliver or submit SMS.	R04A04
SMS	Added support for special characters in IRA format	R04A04
VOICE CALL	Added AT+QCFG="call_control" to control MO/MT calls.	R04A04
GENERAL	Added MBNs and KTFOTA for Korean SKT and KT carriers.	R04A04
GENERAL	Added the following AT commands: <ul style="list-style-type: none"> ● AT+QCFG="sim/recovery" to enable SIM card hot-plugging feature; ● AT+QCFG="defaultdns" to configure the default DNS address of the PDP context; ● AT+QCFG="disrplmn" to configure the RPLMN first when the module searched the network. 	R04A04
GENERAL	Added parameter 2 to AT+QCFG="dhcppktflr" to determine whether to filter packets based on the DHCP destination address.	R04A04
GENERAL	Added Ogero Lebanon VoLTE MBN version 0x0680F701,202001162.	R04A04
GENERAL	Added AT+QCFG="fast_dormancy" to support Rel-8 fast dormancy feature.	R04A04
GENERAL	Deactivated UMTS 3GPP Rel.7/8.	R04A04
GENERAL	Added AT+QNWCFG="lte_snr" to query SNR.	R04A04
GENERAL	Added AT+QICSGPEH to set the APN name.	R04A04
GENERAL	Supported to enter recovery mode by long pressing Ctrl+C .	R04A04

GENERAL	Added the default output value of AT+QHVN .	R04A04
GENERAL	Added FTM AT Force RX band30/66.	R04A04
NETWORK	Added AT+QCFG="lte/preferfre" for LTE frequency to add network registration preference feature for specified LTE frequency.	R04A04
NETWORK	Supported external forwarding of DHCP packets.	R04A04
SMS	Enabled URC +QINDCFG: "smsfull" report when SMS is full.	R04A03
NETWORK	Added a new valid value 0xFFFE for parameter <bandval> and 0xFFFFFFFFFFFFFFFF for <ltebandval> of command AT+QCFG="band" to enable the module to restore the factory settings of supported band.	R04A03

4. Improved Features

Item/Category	Brief description	Since
SIM Detection	Solved the problem that the module could not recognize the USIM card 2 when the USIM card slot was switched to slot 2 after the execution of AT+QDSIM=1 .	R04A22
NETWORK	Solved the problem that an incorrect operator ID was returned after the execution of AT+QENG="servingcell" .	R04A21
GENERAL	Solved the problem that the uplink data was blocked when the cell was switched under certain networks.	R04A21
GENERAL	Solved the problem that the network of the module fell back to 3G after an emergency call to 112 was made with a SIM card inserted.	R04A21
GENERAL	Extended AT+QSIMLOCK to support <password> with a maximum length of 16 characters and unlock the personalized device lock.	R04A21
SIMCARD	Solved the problem that the profile of eSIM failed to be switched.	R04A20
GENERAL	Solved the problem that no PCI information was returned in QMI_NAS_PERFORM_NETWORK_SCAN_RESP_MSG.	R04A20
GENERAL	Solved the problem that modem did not respond to DHCP unicast packets.	R04A20
FOTA	Solved the problem that an abnormal error may occur probabilistically when firmware was upgraded to 79% through HTTPS DFOTA.	R04A06
GENERAL	Modified AT+QMFSDBG to save the configuration after the module was rebooted.	R04A06

GENERAL	Solved the problem of AT+QSPN returning wrong information on restricted service.	R04A06
GENERAL	Solved the problem of incomplete modem log compatibility between the module and QXDM5.	R04A06
NETWORK	Solved the problem that incorrect UTRA-ARFCN was returned after the execution of AT+QENG="servingcell" under WCDMA network.	R04A06
GENERAL	Restored default APN length configured by AT+QICSGP to 62.	R04A05
NETWORK	Solved the problem that some private network cards that lack EF AD data could not register to network.	R04A05
GENERAL	Solved the problem of network disconnection when multiple AT commands were executed at the same time.	R04A05
GENERAL	Solved the problem of abnormal triggering of PA Level 2 of the thermal mitigation strategy.	R04A05
GENERAL	Solved the problem of module abnormality with a low probability when executing AT+QSPN to query the service provider name.	R04A05
GENERAL	Solved the problem that after AT+QICSGP was configured as IPv4v6, another IP type would fail to be configured.	R04A05
GENERAL	Solved the problem that +CME ERROR returned probabilistically under Telstra after executing AT+VTS .	R04A05
SIMCARD	Solved the problem that AT+QCFG="sim/recovery" had no URC report, and the SIM card could not be detected within the detection range.	R04A05
GNSS	Modified the return value range of AT+QGPSXTRA=? to (0,1).	R04A05
VOICE CALL	Solved the problem that after using AT+QCFG="call_control" to disable the module being called, the module fell to 3G network.	R04A04
VOICE CALL	Solved the problem that AT+CHLD could not be used if no SIM card was inserted.	R04A04
FOTA	Optimized DFOTA upgrade time.	R04A04
FOTA	Solved the problem that the module could not continue to back up after it was powered down at 79% of the upgrade.	R04A04
GENERAL	Solved the problem that there was no return value after executing AT+QCOPS .	R04A04
GENERAL	Modified AT+QCSQ to display <rss> as a negative value.	R04A04
GENERAL	Optimized MultiMBN strategy.	R04A04
GNSS	Modified the range of <dpoenable> of AT+QGPSCFG="dpoenable" from (0,1) to (0-2). The default value of <dpoenable> is 2 which indicates to enable DPO by default.	R04A04
NETWORK	Optimized AT+QCFG="servicedomain" .	R04A04

GENERAL	Changed the input APN character length via AT+QICSGP to 63. Optimized AT+QCFG="roamservice" .	R04A03
NETWORK	For AT+QNWLOCK="common/4g" , the parameter configuration would not be saved after rebooting.	R04A03
GENERAL	Set the default value to USB 3.0.	R04A03
SMS	Supported to save messages by default.	R04A03
GENERAL	Solved the problem of report error when using AT+QSIMLOCK to unlock PN if there was no SIM card inserted.	R04A03
NETWORK	Solved the problem that the band information was incorrect returned by AT+QNWINFO .	R04A02
GENERAL	Solved the problem that the SIM ECC number could not be obtained by AT+CPBR .	R04A02
SMS	Solved the problem that the SMS sending failed after switching the SIM card of different operators with AT+CFUN .	R04A02
SMS	Solved the problem that SMS center number still was of the last Operator when SIM card hot-plugging feature was enabled.	R04A02
GNSS	Optimized AT+QGPSCFG="outport","usbmea" .	R04A02
GENERAL	Supported AT+QCFG="roamservice" .	R04A02
NITZ	Solved the problem that the returned time queried by AT+CCLK contains the time zone information when set parameter value of AT+CTZU to 0.	R04A02

5. Known Issues

Item/Category	Brief Description
/	/

6. Functions

Basic Function

SMS	Voice Call	PHB	FILE ¹⁾
Y	Y	Y	Y

Protocol Function

QMI	NITZ
Y	Y

Special Function

FOTA
Y

NOTE

1. Y means the firmware supports this function.
2. N means the firmware does not support this function.
3. ¹⁾ Supports UFS FILE only.
4. Verification Environment is shown below. For more details, please contact Quectel Technical Support.
For Windows,
USB Driver: Quectel_Windows_USB_Driver(Q)_NDIS_V2.7.8.zip
Qflash Tool: QFlash_V6.7.zip

For Linux,
QMI_WWAN Driver: Quectel_Linux&Android_QMI_WWAN_Driver_V1.2.0.23.zip
GobiNet Driver: Quectel_Linux_Android_GobiNet_Driver_V1.6.5.zip
QFirehose Tool: QFirehose_Linux_Android_V1.4.17.zip
Quectel-CM 工具: Quectel_QConnectManager_Linux_V1.6.5.zip