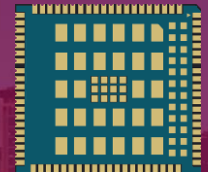


Quectel EC200U-CN

IoT/M2M-optimized

LTE Cat 1 Modules



EC200U-CN-AA

Release Notes

LTE Standard Module Series

Rev. EC200U-CN-AA_Firmware_Release_Notes_V0209

Date: 2021-10-26

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

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

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

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1. Release Content

This document provides the Release Notes for EC200U-CN-AA. The current release includes the firmware package.

Package	Version
Firmware	EC200UCNAAR02A09M08

2. Matters Needing Attention

SN	Item
/	/

3. Release History

3.1. Firmware Release History

Firmware Version	Description
EC200UCNAAR02A09M08	Mass production.
EC200UCNAAR02A08M08	Mass production.
EC200UCNAAR02A07M08	Mass production.
EC200UCNAAR02A06M08	Mass production.
EC200UCNAAR02A05M08	Mass production.
EC200UCNAAR02A04M08	Mass production.
EC200UCNAAR02A03M08	Mass production.
EC200UCNAAR02A01M08	For CS.

3.2. New Features

EC200UCNAAR02A08M08	
Item	Brief Description
/	/
EC200UCNAAR02A07M08	
Item	Brief Description
AUDIO	Supported UAC.
FTP	Added a buffer for FTP resuming download.
NETWORK	Added AT command AT+CSCON to get RRC connection status or enable reporting an URC to indicate RRC connection status.
SMTP	Supported SMTP.

EC200UCNAAR02A06M08	
Item	Brief Description
/	/
EC200UCNAAR02A05M08	
Item	Brief Description
FTP	Added AT command AT+QFTPCFG="data_address" to configure the FTP data connection address selection.
GNSS	Added AT command AT+QGPSCFG="beidoumeaformat" to control the output format of Beidou NMEA sentences.
EC200UCNAAR02A04M08	
Item	Brief Description
/	/
EC200UCNAAR02A03M08	
Item	Brief Description
TCP/UDP	1. Added AT command AT+QICFG="send/auto" to set the heartbeat packet data to be sent periodically. 2. Added AT command AT+QICFG="recv/ignore" to set to filter the specified data.
Voice Call	Added AT command AT+QCFG="tone/incoming" to support customers to customize incoming call ringtones.
GENERAL	Added AT command AT+QCFG="qcsq/rssi/negative" to control whether the RSSI value obtained by AT+QCSQ is the original value.
EC200UCNAAR02A01M08	
Item	Brief Description
/	/

3.3. Improved Features

EC200UCNAAR02A09M08	
Item	Brief Description
CMUX	Added AT command AT+QCFG="cmux/data/cfg" to solve the problem that GNSS NMEA sentence could not be transferred normally on the serial port using non-CMUX protocol after the serial port was set to CMUX mode.

EC200UCNAAR02A08M08

Item	Brief Description
MMS	Limited the number of parameters for MMS related AT commands.
QuecLocator 2.0	Supported judging whether the server port configured by AT+QLBSCFG="server" was reasonable.

EC200UCNAAR02A07M08

Item	Brief Description
DFOTA	Corrected FOTA Task event ID.
DFOTA	Solved the problem of no URC +QIND: "FOTA","START" reported after turning off the FOTA upgrade related URC report.
HTTP	Corrected the return value format of AT+QHTTPPOST .
HTTP	Optimized the HTTP memory request exception handling process.
HTTP	Optimized the internal HTTP task event processing flow.
NITZ	Fixed the problem of incorrect time set by AT+CCLK (not including CTZU 3).
TCP/UDP	Optimized the TCPIP release process.
TCP/UDP	Reported NO CARRIER first when exiting from TCP transparent transmission.

EC200UCNAAR02A06M08

Item	Brief Description
HTTP	Solved the problem that the serial port may not work normally when AT+QHTTPSTOP executed before URC reported from AT+QHTTPGET .
MQTT	Optimized MQTT data analysis process.

EC200UCNAAR02A05M08

Item	Brief Description
FTP	Optimized FTP related AT commands processing flow.
GNSS	Adjusted the value order of parameters in AT+QGPSCFG="beidoumeatype" command.
HTTP	Fixed the problem that data to be read to the serial port by AT+QHTTPREAD may lose sometimes.
HTTP	Fixed the problem that there was no response from AT+QHTTPGETEX .
HTTP	Optimized URC reporting process after enabling auto output HTTP response.

MQTT	Optimized MQTT data analysis process.
MQTT	Optimized the AT+QMTOPEN exception handling mechanism and process.
MQTT	Solved the problem that there was no error reported if an extra parameter configured in AT+QMTCFG command.
NTP	Optimized AT+QNTP command processing flow and corrected the number of retries and retry interval.
SMS	Fixed the return format of AT+CMGR and AT+CMGL commands.
TCP/UDP	Fixed the problem that module may fail to download when the base station cached server data.
TCP/UDP	Optimized AT+QICFG="tcp/retranscfg" to configure the retransmission time.
TCP/UDP	Optimized the management for the activated PDP within the module.
GENERAL	Added caching mechanism for Nand flash to optimize file writing speed.

EC200UCNAAR02A04M08

Item	Brief Description
FTP	<ol style="list-style-type: none"> Fixed the problem that an error was reported when AT+QFTPCWD switched FTP(S) server directory. Fixed the problem that an error was reported when AT+QFTPOPEN set the IPV6 address without [].
FTP	Optimized the data processing flow of AT+QFTPPUT uploading files from the serial port to the server.
HTTP	Solved the problem that AT+QHHTTPGET may fail to send GET requests to HTTP(S) server if the redirect occurred.
HTTP	Solved the problem that HTTP data download may fail.
TCP SSL	Solved the problem that AT+QSSLCFG configuration could not take effect before RDY reported at booting.
TCP/UDP	Solved the problem that under weak signal, data transfer in TCP transparent transmission mode may lose.
TCP/UDP	Solved the problem that the downlink data may not be received in TCP/UDP application layer.

EC200UCNAAR02A03M08

Item	Brief Description
DFOTA	Solved the problem of FOTA upgrade failure caused by incorrect file name.
DFOTA	Supported connection to IPv6 server and SSL certification for FTP FOTA.
DFOTA	Make the corresponding initialization operation when FOTA path is "/sdcard0" during FOTA upgrade.

FILE	Fixed the problem that the available space of "UFS" and "FOTA" obtained by AT+QFLDS="UFS" and AT+QFLDS="FOTA" was inconsistent.
HTTP	Solved the problem that the data length responded by the server overflowed after sending a GET request to the HTTP(S) server.
NETWORK	Fixed the selected network mode after using AT+COPS=1 to search network manually.
NETWORK	<ol style="list-style-type: none"> 1. Solved the problem that the module could not work normally when using AT+QCELLINFO to switch how to get the cell information. 2. Solved the problem that AT+QCELLINFO and AT+QENG could not be used at the same time.
PPP	Shorten the PPP hang-up time.
QuecLocator 2.0	Solved the problem that the AT port could not work normally when obtaining location information through AT+QLBS .
TTS	<ol style="list-style-type: none"> 1. Fixed the problem that the module may not work normally if the text encoding in the format of UCS2 with a colon was input during TTS playing. 2. Turned off the intelligent identification digital function.
TCP/UDP	Solved the problem that the data output by URC may be lost due to full URC buffer under TCP push mode.
GENERAL	<ol style="list-style-type: none"> 1. Increased 100 ms delay for URC output at booting. 2. Solved the problem that some URCs were missing when the baud rate is set to 9600 during the DFOTA upgrade process.
GENERAL	Solved the problem that the published MQTT message did not echo after executing AT+QMTCFG="view/mode",0,1 .
GENERAL	Solved the problem of error occurred when using ATD to make a call.
GENERAL	Optimized URC log reporting delay time during FOTA upgrade.
GENERAL	Optimized the multiplexing rate for the default bearer at PDP activation.
GENERAL	Solved the problem that data may be lost after UART port waked up from sleep.
GENERAL	Solved the problem that AT port could not work normally after the module was awakened from sleep abnormally with current consumption increased.
GENERAL	Solved the problem that the data received via main serial port under high baud rate may be lost.
GENERAL	Optimized PDP activation State Machine to realize serialization management.
GENERAL	Optimized AT command AT+QRDY to support obtaining the initialization status of the embedded protocol stack, BT and AUDIO.
GENERAL	Optimized NAT function to not allow IPV6 only and NAT of one PDP to be turned on at the same time.

EC200UCNAAR02A01M08

Item	Brief Description
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3.4. Known Issues

Item	Bug Description
/	/

NOTE

Verification Environment is shown below. For more details, please contact Quectel technical support.
 For Windows: Win10 64 bit
 USB Driver: Quectel_5G_Windows_USB_Driver(U)_For_ECM_RNDIS_V1.0.4
 Qflash Tool: QFlash_V5.5

4. Function List

Category	Item	Supported Version (Since)	Note
Basic Function	SMS	EC200UCNAAR02A04M08	/
	Voice Call	EC200UCNAAR02A04M08	/
	CMUX	EC200UCNAAR02A04M08	/
	FILE	EC200UCNAAR02A04M08	Supports UFS FILE only.
Protocol Function	TCP/UDP	EC200UCNAAR02A04M08	/
	PPP	EC200UCNAAR02A04M08	/
	NITZ	EC200UCNAAR02A04M08	/
	FTP	EC200UCNAAR02A04M08	/
	HTTP	EC200UCNAAR02A04M08	/
	TCP SSL	EC200UCNAAR02A04M08	/
	MQTT	EC200UCNAAR02A04M08	/
	NTP	EC200UCNAAR02A04M08	/
	SMTP	EC200UCNAAR02A07M08	/
	MMS	EC200UCNAAR02A08M08	Supports MMS sending only.
	SIM Detection	EC200UCNAAR02A04M08	/
Special Function	QuecLocator 2.0	EC200UCNAAR02A04M08	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.
	DFOTA	EC200UCNAAR02A04M08	/
	ECM	EC200UCNAAR02A04M08	/

RNDIS	EC200UCNAAR02A04M08	/
LowPower	EC200UCNAAR02A04M08	/
GNSS	EC200UCNAAR02A04M08	/
SD	EC200UCNAAR02A04M08	/
TTS	EC200UCNAAR02A04M08	/

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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.

