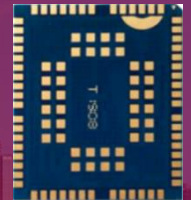# Quectel BG95 Series

LTE Cat M1/ Cat NB2/

EGPRS Module

BG95-M3-LA_QuecPython
Release Notes

LPWA Module Series

Rev. BG95-M3-LA_QuecPython_Firmware_Release_Notes_V0203

Date: 2024-08-26

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

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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.

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Contents

1. Release Content

This document provides the Release Notes for BG95-M3-LA_QuecPython. The current release includes the following firmware packages.

Package	Firmware Version
Firmware	BG95M3LAR02A03_OCPU_QPY
Toolchain	Helios_toolchain_1.4.1.exe

2. Matters Needing Attention

SN	Item
[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, repeated execution of NVM commands, or backing up the file system should not exceed 30 times per day.
[2]	For important files (such as certificates, QuecOpen application, key profiles, etc.) stored in file system of the module, you must do backup operations (via **AT+QPRTPARA=1** and **AT+QPRTPARA=11**) during device factory production or after those files are updated and added by your application.
[3]	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	Description
BG95M3LAR02A03_OCPU_QPY	Mass production
BG95M3LAR02A02_OCPU_QPY	Mass production
BG95M3LAR02A01_OCPU_QPY	Mass production

3.2. New Features

BG95M3LAR02A03_OCPU_QPY	
Item	**Brief Description**
FOTA	Add *ipvtype* to the constructors of the request and app_fota modules. The default value of *ipvtype* is 0, that is, IPv4, and *ipvtype* can be set to 1, that is, IPv6.
HTTP	Support IPv6 in the request module.
SSL	Add the feature of CA certificate configuration in the ussl module.
General	Add *uos.sdkver()* to query the SDK version number.
General	Support IPv6 in FTP(S).
General	Add *utime.localtime_ex()* and *utime.mktime_ex()* to solve the problem that the old functions may cause time conversion errors in scenarios of non-UTC+8 zones because they are only applicable to the UTC+8 zone.

BG95M3LAR02A02_OCPU_QPY	
Item	**Brief Description**
/	/

BG95M3LAR02A01_OCPU_QPY	
Item	**Brief Description**
/	/

3.3. Improved Features

BG95M3LAR02A03_OCPU_QPY	
Item	**Brief Description**
PING	Limit the range of *SIZE* for the PING feature.

BG95M3LAR02A02_OCPU_QPY	
Item	**Brief Description**
PWM	Solve the problem that PWM cannot be turned off when the duty cycle is 0 or 100.

BG95M3LAR02A01_OCPU_QPY	
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,
USB Driver: Quectel_Windows_USB_Driver(Q)_NDIS_V2.7.7
QPYcom Tool: QPYcom_V3.5

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4. Functions List

Category	Item	Supported Version (Since)	Note
Basic Function	(U)SIM	BG95M3LAR02A01_OCPU_QPY	/
	Data Call	BG95M3LAR02A01_OCPU_QPY	/
	FILE	BG95M3LAR02A01_OCPU_QPY	/
Protocol Function	FTP	BG95M3LAR02A01_OCPU_QPY	/
	FTPS	BG95M3LAR02A01_OCPU_QPY	/
	HTTP	BG95M3LAR02A01_OCPU_QPY	/
	HTTPS	BG95M3LAR02A01_OCPU_QPY	/
	MQTT	BG95M3LAR02A01_OCPU_QPY	/
	NITZ	BG95M3LAR02A01_OCPU_QPY	/
	NTP	BG95M3LAR02A01_OCPU_QPY	/
	PING	BG95M3LAR02A01_OCPU_QPY	/
	SSL	BG95M3LAR02A01_OCPU_QPY	/
	TCP/UDP	BG95M3LAR02A01_OCPU_QPY	/
Special Function	ADC	BG95M3LAR02A01_OCPU_QPY	/
	DFOTA	BG95M3LAR02A01_OCPU_QPY	/
	EINT	BG95M3LAR02A01_OCPU_QPY	/
	ESIM	BG95M3LAR02A01_OCPU_QPY	/
	FOTA	BG95M3LAR02A01_OCPU_QPY	/
	GPIO	BG95M3LAR02A01_OCPU_QPY	/
	I2C	BG95M3LAR02A01_OCPU_QPY	/
	Low Power	BG95M3LAR02A01_OCPU_QPY	/
	Modem	BG95M3LAR02A01_OCPU_QPY	/
	PWM	BG95M3LAR02A01_OCPU_QPY	/

SIM Detection	BG95M3LAR02A01_OCPU_QPY	/
SPI	BG95M3LAR02A01_OCPU_QPY	/
Encryption and Decryption	BG95M3LAR02A01_OCPU_QPY	/
Timer	BG95M3LAR02A01_OCPU_QPY	/
UART	BG95M3LAR02A01_OCPU_QPY	/

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.