



Build a smarter world

Quectel EG915K-EU LTE Standard Module

Product Overview

Duty of confidentiality

The Receiving Party shall keep confidential all documentation and information provided by Quectel, except when 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 of Quectel. For any non-compliance 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.

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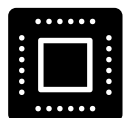
Covering multiple regions



Classic form factor: 23.6 × 19.9 × 2.4 mm

Wi-Fi scan 

Bluetooth 5.0^① 



Chipset platform: ASR1602

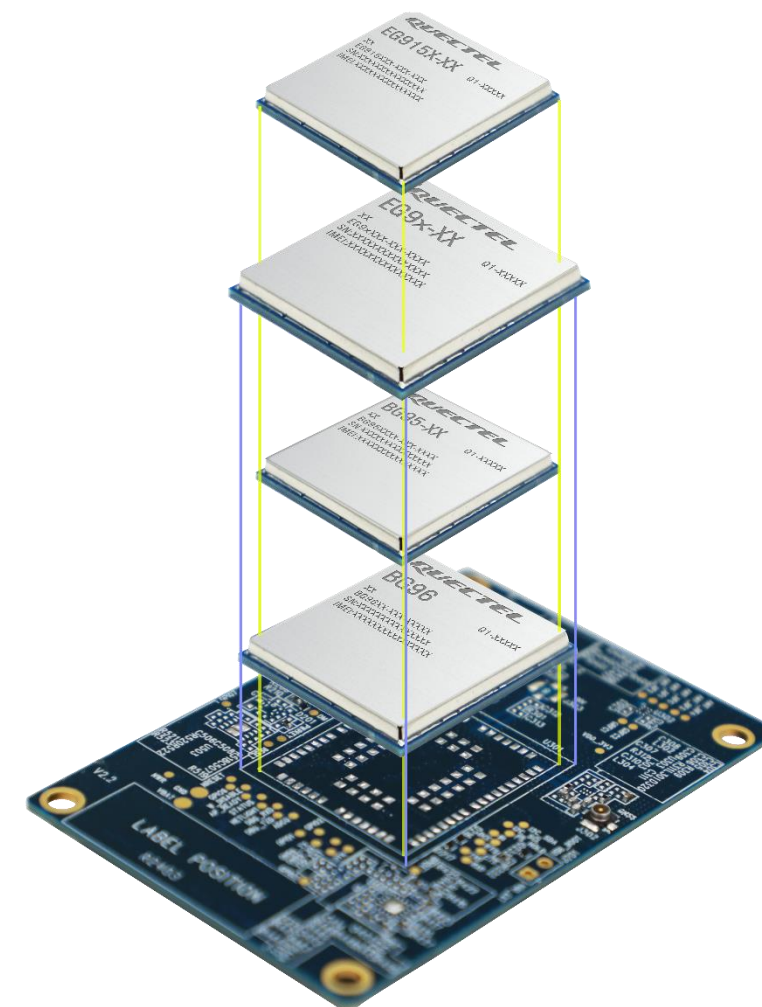
built-in GNSS (Optional) 

①: Only supported in QuecOpen[®] solution

EG915K-EU compatible modules



EG915K-EU module is compatible with Quectel EG915N series, EG915U series, EG91 series, EG95 series, BG95 series and BG96 series modules.



EG915K-EU highlights

Interface/ Function	Description
Interface	(U)SIM/ UART/ USB/ ADC*/ SPI ^① / PWM ^① / I2C ^① / LCM ^① / RESET_N/ PWRKEY/ Antenna (Bluetooth antenna ^① , main/ Wi-Fi scan antenna and GNSS antenna ^②)
USB Serial Driver	Windows 10/ 11, Linux 2.6–6.7, Android 4.x–14.x
RIL Driver	Android 4.x–14.x
USB RNDIS Driver	Windows 10/ 11, Linux 2.6–6.7
USB ECM Driver	Linux 2.6–6.7
Abundant protocols	TCP/ UDP/ NTP/ NITZ/ MQTT/ SSL/ PPP/ PING/ FTP/ HTTP/ HTTPS/ FTPS
Enhanced features	DFOTA (Delta Firmware Upgrade Over-The-Air) (U)SIM card detection GNSS (optional)
SMS over SGS	Text and PDU modes Point-to-point MO and MT SMS cell broadcast SMS storage: ME by default

*: Under development

①: Only supported in QuecOpen® solution

②: GNSS antenna is optional

EG915K-EU specifications

23.6 mm × 19.9 mm × 2.4 mm
LTE-FDD: 10 Mbps DL/ 5 Mbps UL
LTE-TDD: 8.96 Mbps DL/ 3.1 Mbps UL

Model		EG915K-EU
Region		EMEA
Chipset		ASR1602
LTE	FDD band	B1/ 3/ 5/ 7/ 8/ 20/ 28
	TDD band	B38/ 40/ 41
GSM		-
GNSS (optional)		BDS/ GPS/ GLONASS
Analog audio		-
Wi-Fi scan		Supported
QuecOpen®*		Optional
QuecPython®*		Optional
DFOTA		Supported
Certification	Regulatory	CE/ RCM
Project stage		CS

*: In progress

EG915K-EU timeline

2024						2025						
Jul.	Aug.	Sep.	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	Jun.	July

Project Stage

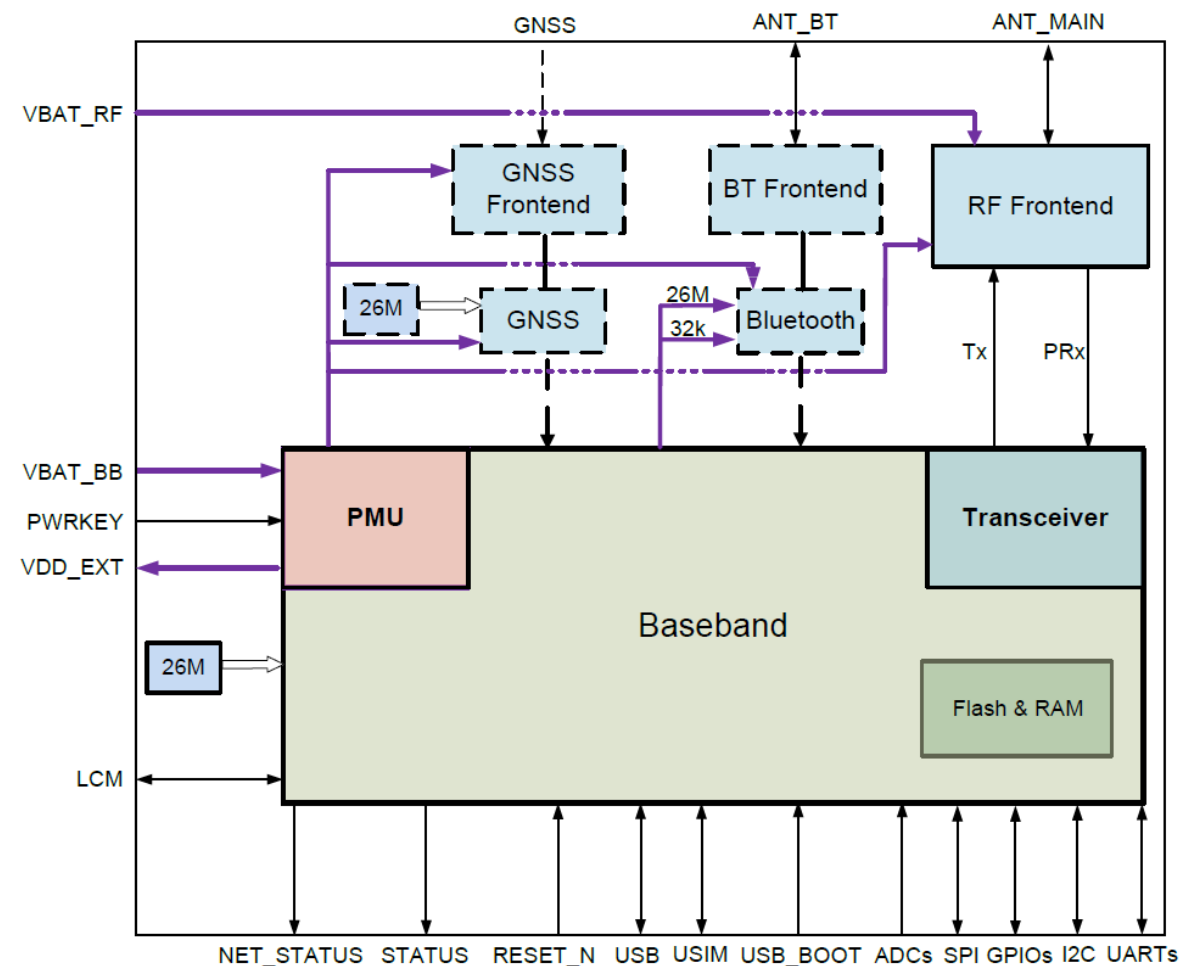


ES: Engineering samples ready. Basic functions are available for customers' simple demo purpose.
CS: Commercial samples ready. Stable hardware design and quite stable software design. New software features can be added upon request.
MP: Hardware and software ready for mass production.

Certification



EG915K-EU hardware architecture



NOTE:

1. SPI, I2C, LCM and Bluetooth interface are only supported in QuecOpen® solution.
2. GNSS function is optional.

Software advantages

USB Serial Driver

- Windows 10/ 11
- Linux 2.6–6.7
- Android 4.x–14.x

Other drivers

- RIL Driver: Android 4.x–14.x
- USB RNDIS Driver:
Windows 10/ 11
Linux 2.6–6.7
- USB ECM Driver:
Linux 2.6–6.7

Quality guarantee

- Reliable network protocols
- Steady flash protection mechanism

Special Features

- GNSS (optional)
- QuecPython®* (optional)

Flexible applications

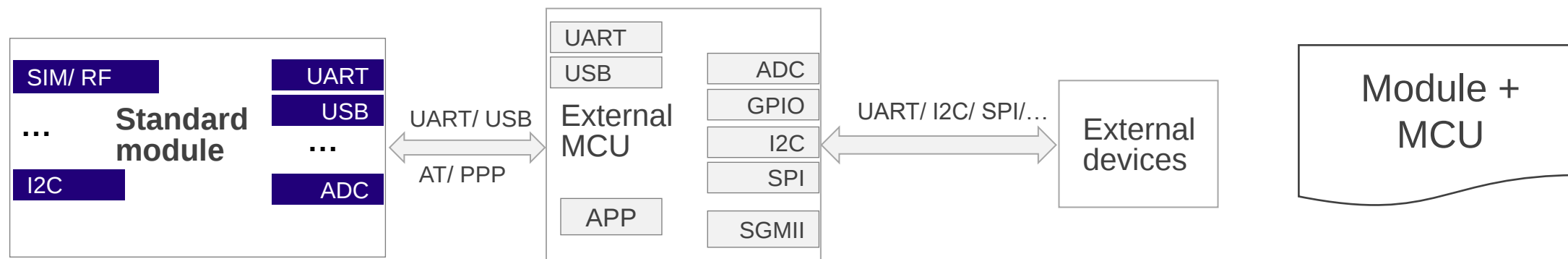
- USIM card detection
- DFOTA

Enhanced AT commands

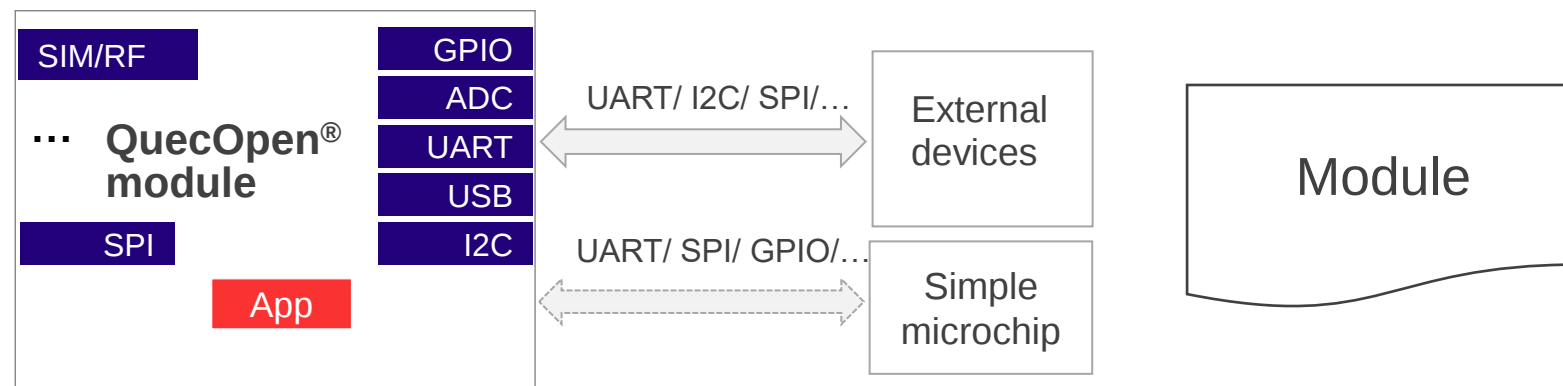
- 3GPP TS 27.007
- 3GPP TS 27.005
- Quectel enhanced AT commands

QuecOpen® vs. Standard module modes

Standard module mode



QuecOpen® module mode

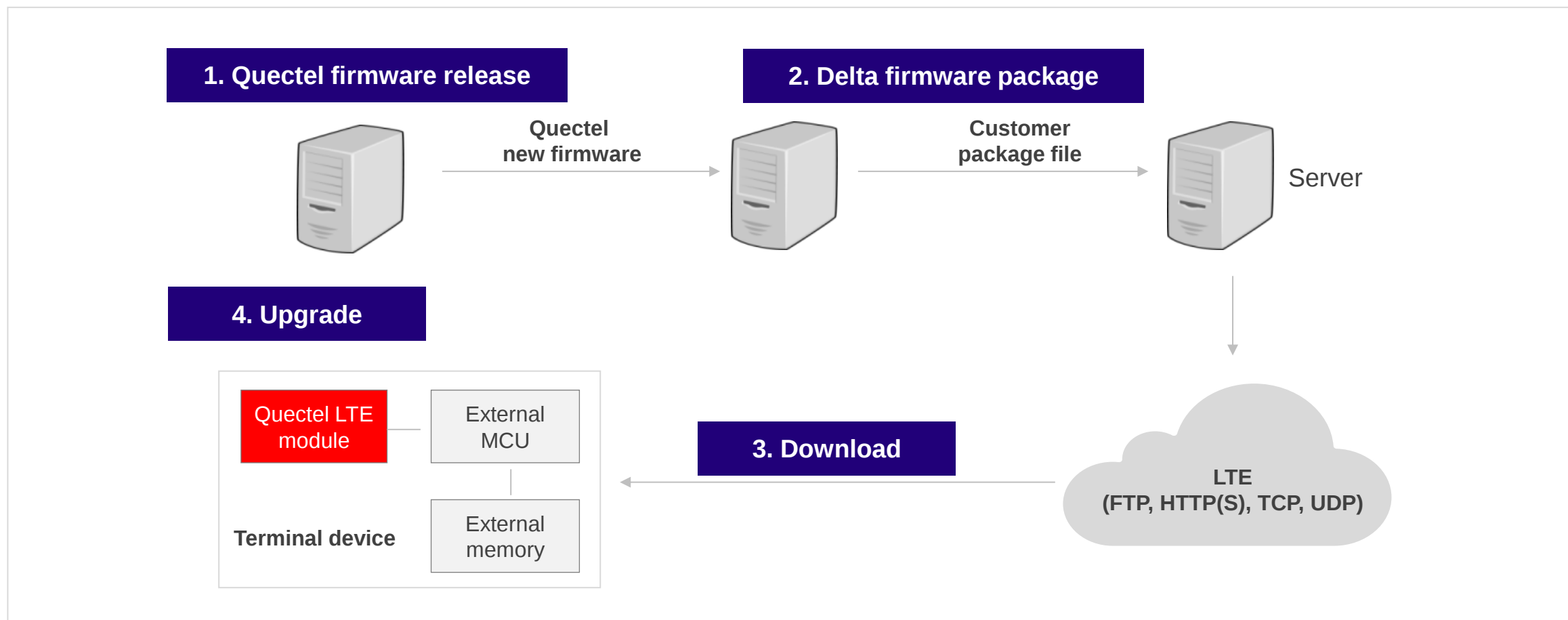


- Simplify circuit design and reduce product size.
- Rich hardware interfaces, strong performance and easy development.
- Reduce costs by eliminating the need for external MCU.

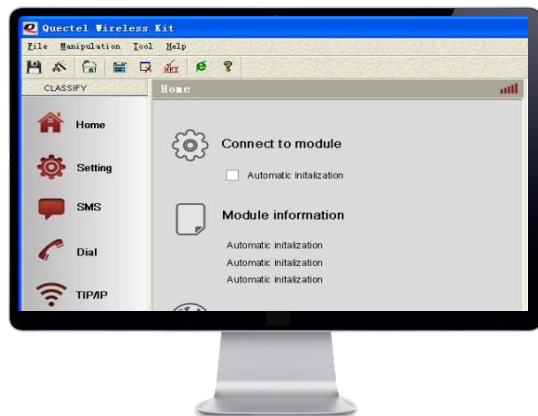
DFOTA

DFOTA (Delta Firmware Upgrade Over-The-Air)

Quick firmware upgrade through cellular networks owing to differential upgrade, delta firmware package, and fast download speed.

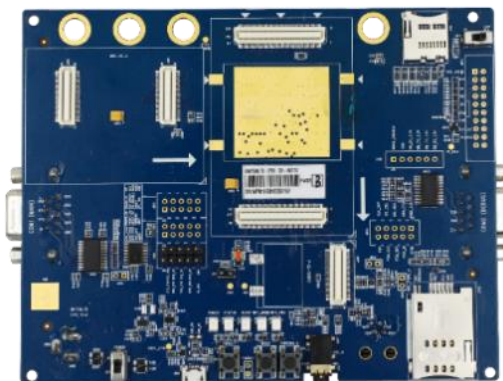


Support package



Quectel provides a graphical user interface (GUI) tool QNavigator, which can help customers quickly test the functions of Quectel modules.

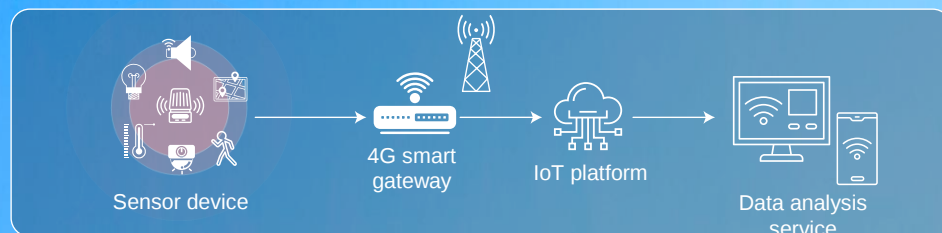
EVB kit



LCC & LGA module EVB

4G smart gateway

Smart gateway allows non-cellular devices to connect to 4G networks.



Wi-Fi gateway to 4G

Allows Wi-Fi devices to connect to networks

USB NIC to 4G

Allows OS such as Windows, Android and Linux to connect to networks

Ethernet to 4G gateway

Allows Ethernet devices to connect to networks

4G Gateway

Allows sensor data to be transmitted to IoT platform

Solution highlights



Module variants meeting users' requirements for chipset, size, region and band



Various Open solutions:

- Linux
- QuecPython®*
- FreeRTOS



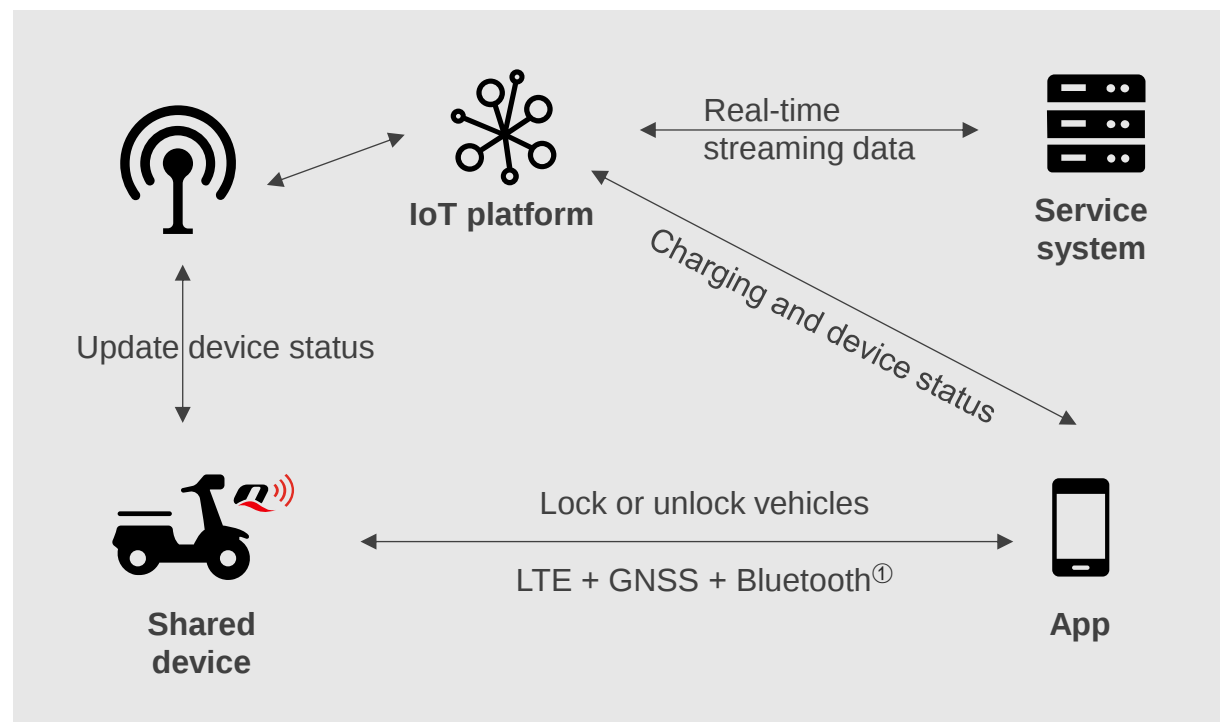
- Sufficient example codes
- Socket programming supported in upper-layer application
- No need to focus on underlying interfaces
- Web configuration gateway

Various sensor data, collected to IoT gateway and transmitted to IoT platform via cellular network, are analyzed and managed intelligently.

Sharing

Challenges

- Traditional public bicycles feature: fixed parking sites, high construction cost and low usage rate.
- Electrical, intelligent and shared travel methods improve travel efficiency.



①: Only supported in QuecOpen® solution

Solution highlights



- Suitable for shared bicycle, motorbike, scooter and other travel devices.
- GNSS function is applied for recording vehicle usage, and Bluetooth for locking or unlocking vehicles.
- An overall solution is provided.



A low-cost device operating mode that allows human-computer interaction in network transmission.



Shared bicycles have become an effective means to alleviate urban traffic congestion and the “last mile” problem.

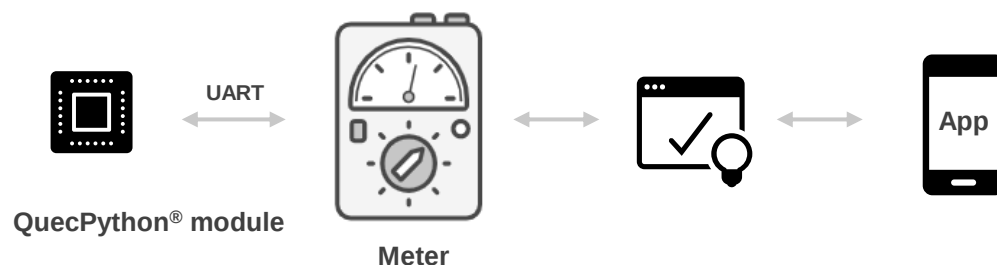
Smart meter

Challenges

- Traditional mechanical meter features a low measurement accuracy.
- Manual data calculation leads to high management cost.



Solutions



Solution highlights



- Developed on QuecPython®* language
- Rich third-party libraries
- Free from compilation



A set of codes can be widely used in the products based on various chipsets without modification.



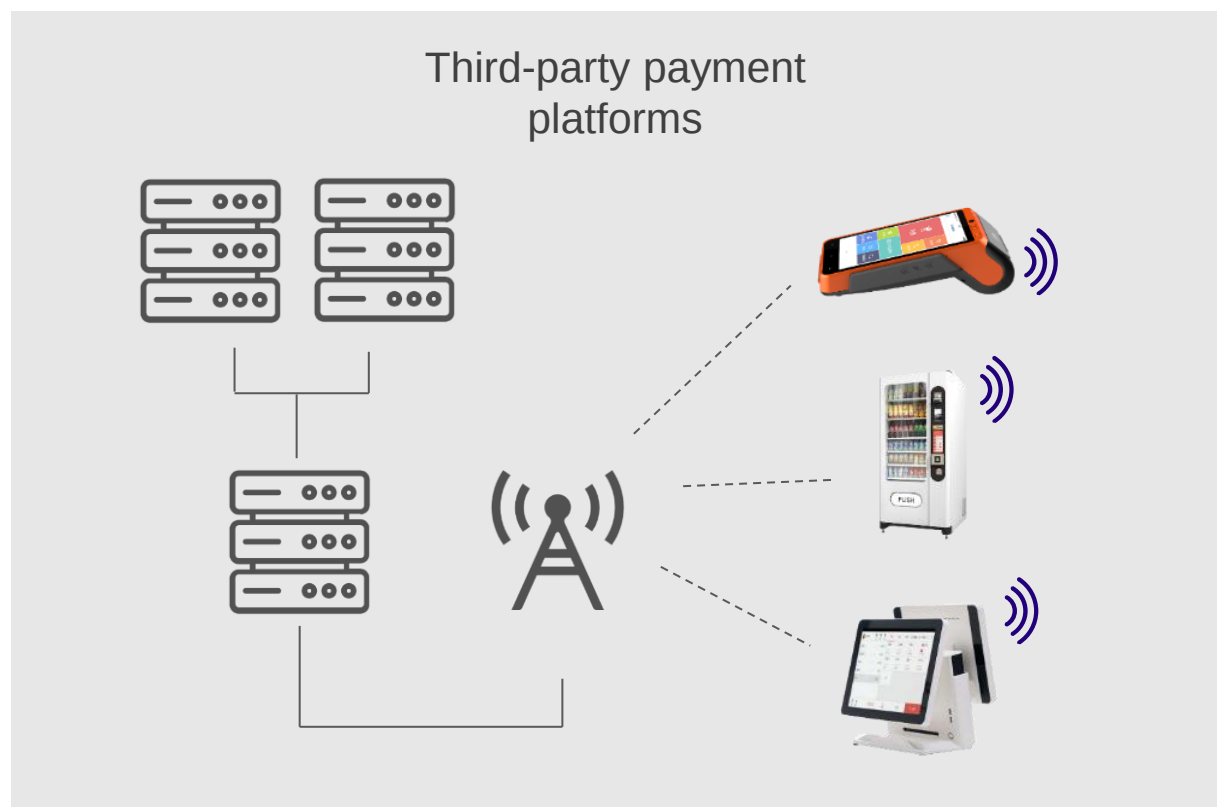
A brand-new meter reading mode

Multiple application scenarios to solve the problems in production and life:

- Smart power consumption
- Distributed energy resources
- Multifunctional community services

POS

- 2G/ 3G phaseout
- Over 100 million 2G/ 3G POS terminals still in use
- Wide use leads to a shorter average replacement time (2–3 years)



Solution highlights



LTE standard solution can meet the demand of direct replacement of 2G/ 3G products.



LTE modules in Open solutions enhance their competitiveness by supporting code scanning, screen display and application.



Wireless payment has been an essential application of LTE Cat 1bis technology which provides wider coverage, higher data rates, and greater cost advantages.

Quectel 360 degree support

On-site support
support@quectel.com
www.quectel.com



1. SYSTEM EVALUATION

- Analyze customer's requirements
- Recommend the right module for the customer
- Antenna placement evaluation
- Antenna design



2. DESIGN IN

- Recommend referenced hardware designs
- Check schematic and layout
- Provide software design support



3. PROTOTYPE

- Provide design validation testing
- Recommend suppliers



4. TESTING SERVICE

- RF testing
- Power consumption testing
- Audio testing
- Reliability & environmental testing
- ESD testing
- Certification testing
- Antenna debug



5. MASS PRODUCTION

- Provide assembly and testing guidelines
- After-sales service

Thank you

For more information, please visit: [quectel.com](https://www.quectel.com), [LinkedIn](#), [Facebook](#) and [X](#).
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