

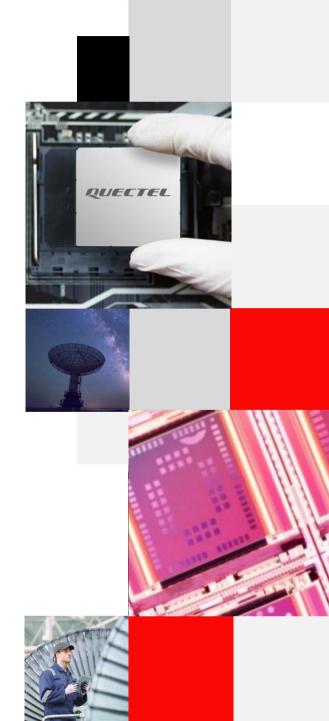
Quectel ECSONI-CN ECSONI-CN ITE Standard Moclee

Introduction



Duty of Confidentiality

The Receiving Party shall keep confidential all documentation and information provided by Quectel, except when the 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 by Quectel. For any noncompliance 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.





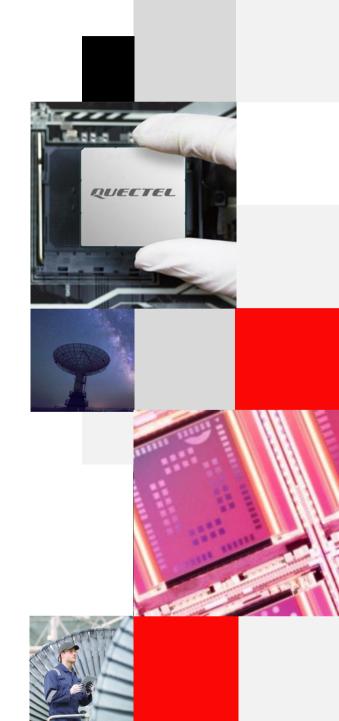
Highlights

Specifications

Enhanced Technologies

Typical Applications

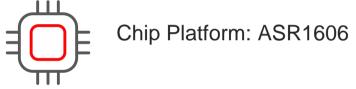
Customer Support



EC800M-CN Highlights







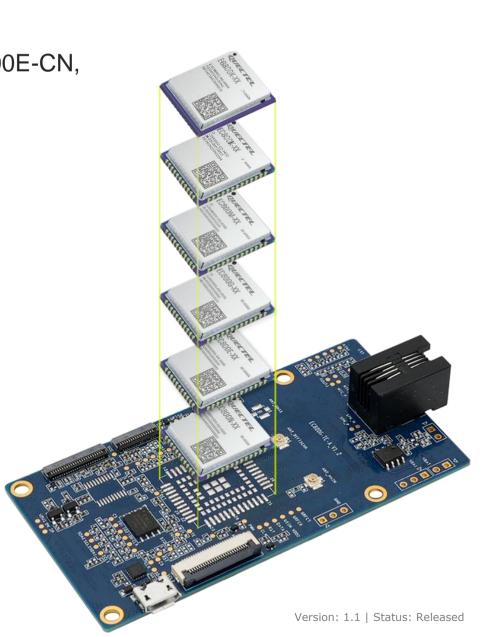
Built-in GNSS function (Optional)



EC800x Series Compatible Modules

EC800M-CN is compatible with EC800G-CN, EC800N-CN, EC800E-CN, EC800K-CN and EG800K series.





QUECTEL

EC800M-CN Highlights



Interface/ Function	Description	
Interface	USB 2.0/ PCM ^① / Analog Audio ^① / USIM/ UART/ ADC/ I2C/ Camera ^② / LCM ^② / PWM ^② / Matrix Keyboard ^② / RESET/ PWRKEY/ Antenna (Main Antenna/ GNSS Antenna ^①)	
USB Serial Driver	Windows 8/ 8.1/ 10/ 11, Linux 2.6–5.18, Android 4.x–13.x	
RIL Driver	Android 4.x–13.x	
USB RNDIS Driver	Windows 8/ 8.1/ 10/ 11, Linux 2.6–6.5	
USB ECM Driver	Linux 2.6–6.5	
Abundant Protocol	TCP/ UDP/ PPP/ NITZ/ PING/ FILE/ MQTT/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX*/ MMS*/ SMTP*/ SMTPS*	
Enhanced Feature	DFOTA (Delta Firmware Upgrade Over-The-Air, backup and recovery) USIM1 card detection Dual SIM Single Standby Single Pass (Optional) GNSS (Optional) Wi-Fi Scan	
SMS	Text and PDU mode Point-to-point MO and MT SMS cell broadcast SMS storage: ME (default) & USIM SGS (default) & IMS(Optional)	

*: Under development. ①: The function is optional. ②: Only support by QuecOpen[®] solution.

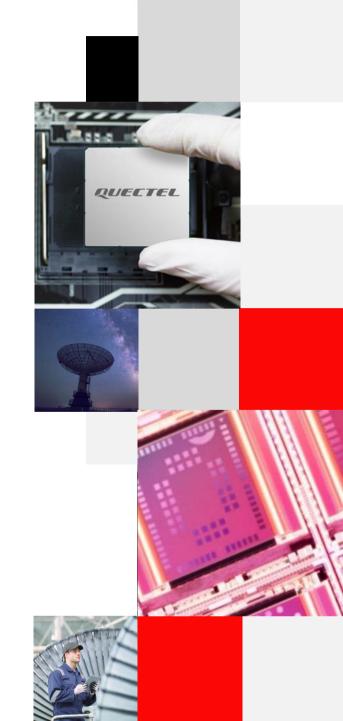


Highlights **Specifications**

Enhanced Technologies

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Customer Support



EC800M-CN Specifications



17.7 × 15.8 × 2.4 mm 10 Mbps DL/ 5 Mbps UL

Variant		E800M-CN
	LTE-FDD	B1/ 3/ 5/ 8
LTE	LTE-TDD	B34/ 38/ 39/ 40/ 41
	GNSS (optional)	GPS/ BDS/ GLONASS/ Galileo
QuecLocat	or®	Optional
Analog Auc	lio	Optional
Digital Audio (PCM)		Optional
Wi-Fi Scan		Supported
VoLTE		Optional
DFOTA		Supported
QuecOpen®		Optional
USIM ^①		× 2, 1.8/ 3.0 V
Supply Vol	tage Range	3.4–4.3 V, typ. 3.8 V
Region		China/ India
Certificatio	ns	Carrier: China Telecom/ China Mobile Regulatory: SRRC/ NAL/ CCC
Project Sta	ge	MP

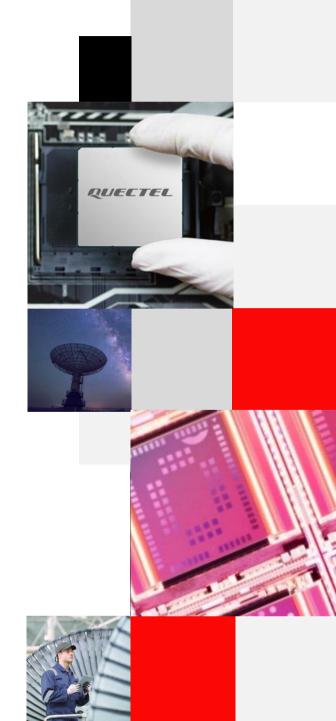
①: USIM2 is optional.



Highlights Specifications Enhanced Technologies

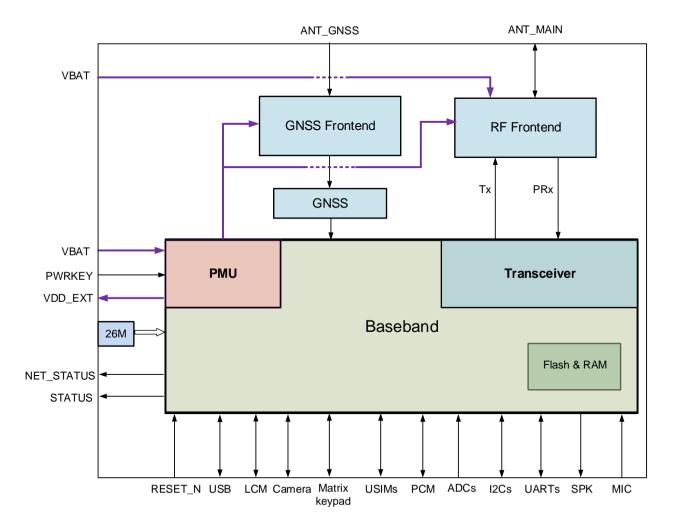
Typical Applications

Customer Support



Hardware Architecture





LCM, camera and matrix keyboard interfaces are only supported by QuecOpen® solutions.

Software Advantages

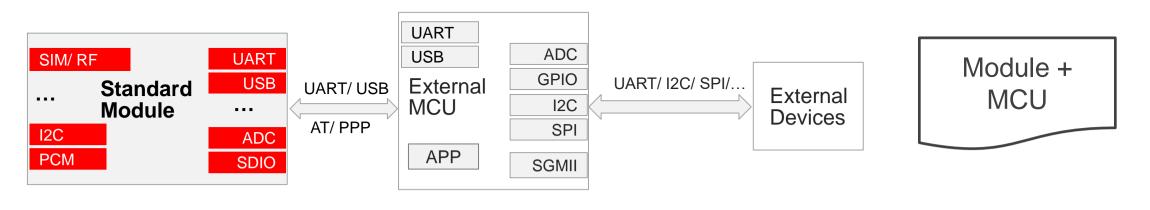


Quality Guarantee Special Features USB Serial Driver • Windows 8/ 8, 1/ 10/ 11 • QuecOpen[®] (Optional) Reliable network protocols • Linux 2 6–6 5 • QuecLocator[®] (Optional) Steady flash protection mechanism • • Android 4 x-13 x • QuecLocator[®] (Optional) Superior audio algorithms **Other Drivers** • RIL Driver: Android 4 x–13 x USB RNDIS Driver: **Enhanced AT Commands Flexible Applications** Windows 8/8.1/10/11 USIM1 card detection Linux 2.6–6.5 3GPP TS 27.007 DTMF (Optional) • USB ECM Driver: • 3GPP TS 27,005 GNSS (Optional) Linux 2.6–6.5 Quectel enhanced AT commands • Dual SIM Single Standby Single GNSS Driver: Pass (Optional) Android 4.x–13.x • VoLTE (Optional)

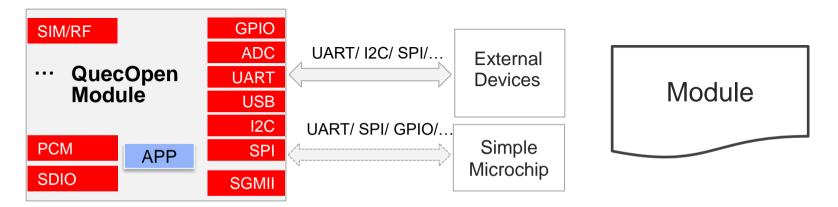
GNSS Driver is optional.



Standard Module Mode



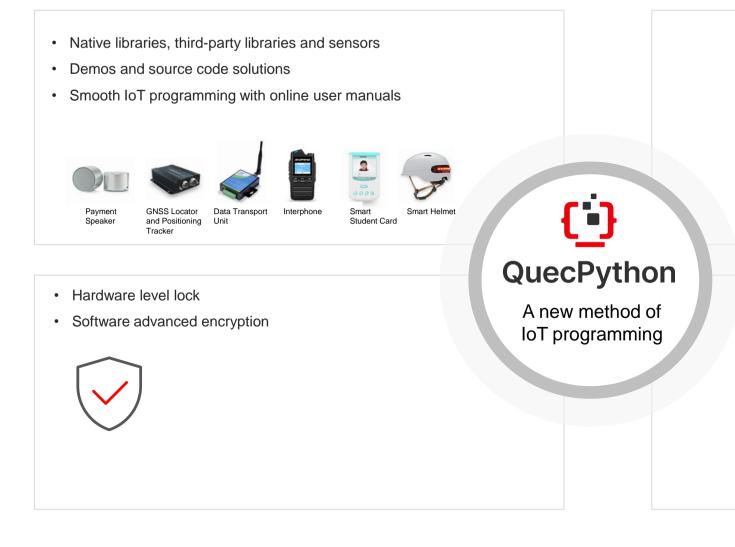
QuecOpen[®] Module Mode



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

QuecPython[®]





- User-friendly
- · GUI tool allows for simultaneous testing and programming

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- Bidirectional isolation of client code and hardware environment
- Unified API that can be used for developing applications and subsequently for running scripts freely on any module or platform
- Cost-free code and platform migration for trouble-free hardware selection

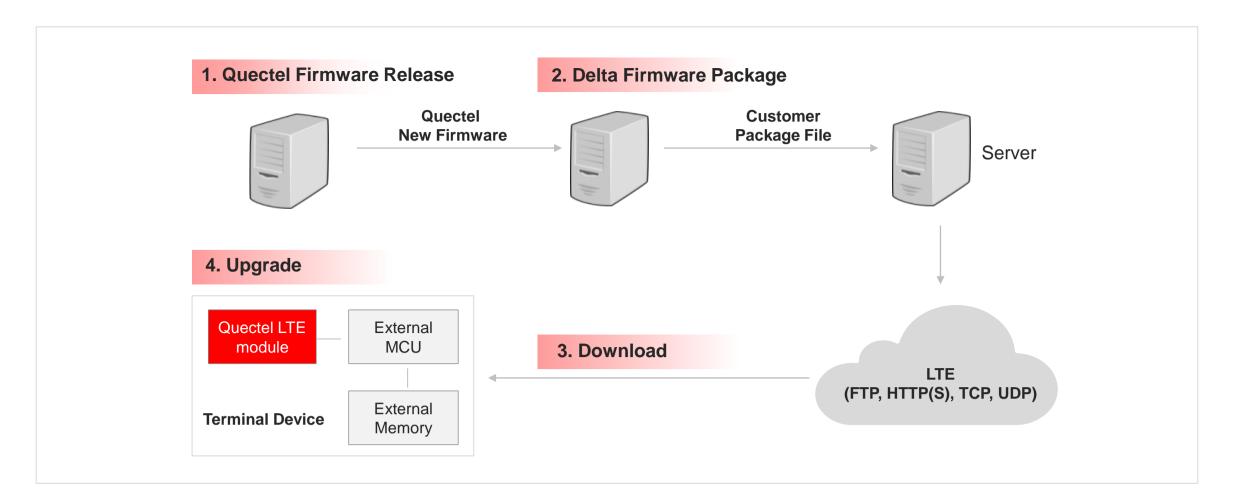


DFOTA



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



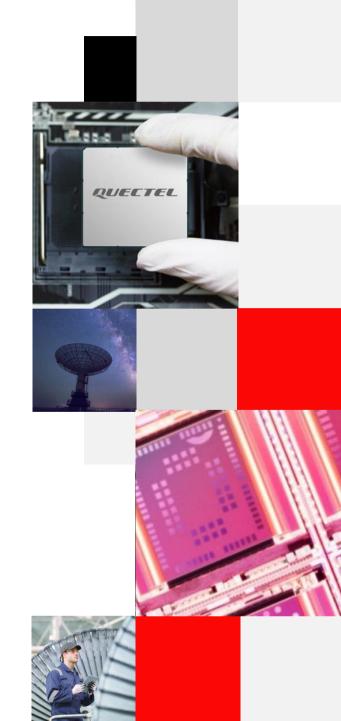
LCC & LGA Module EVB



Mini PCIe Module EVB

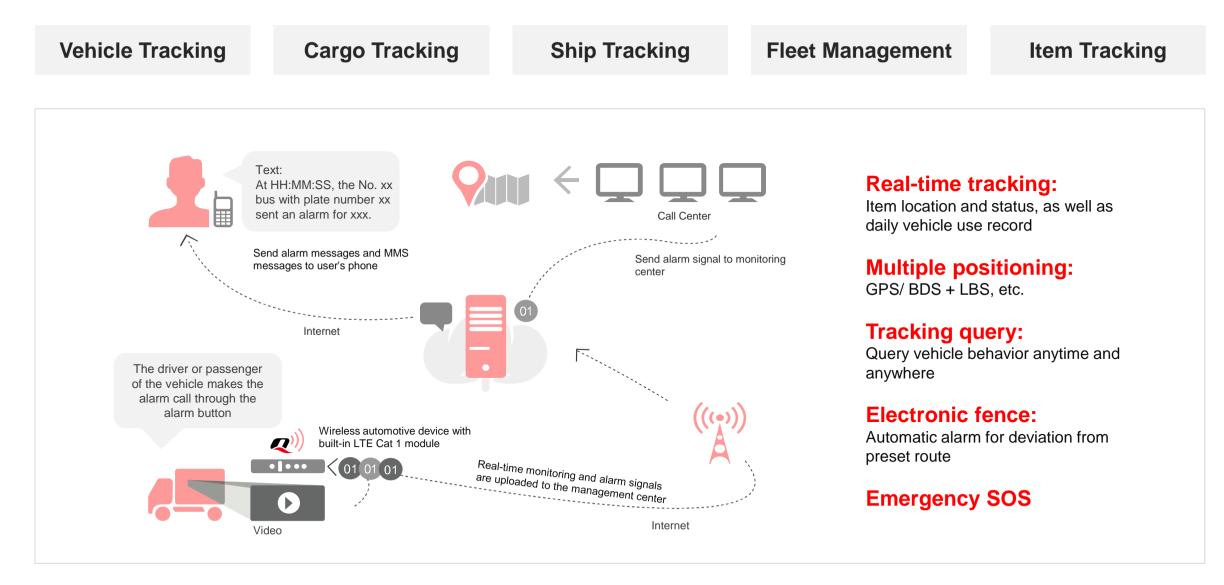


Highlights Specifications Enhanced Technologies **Typical Applications** Customer Support



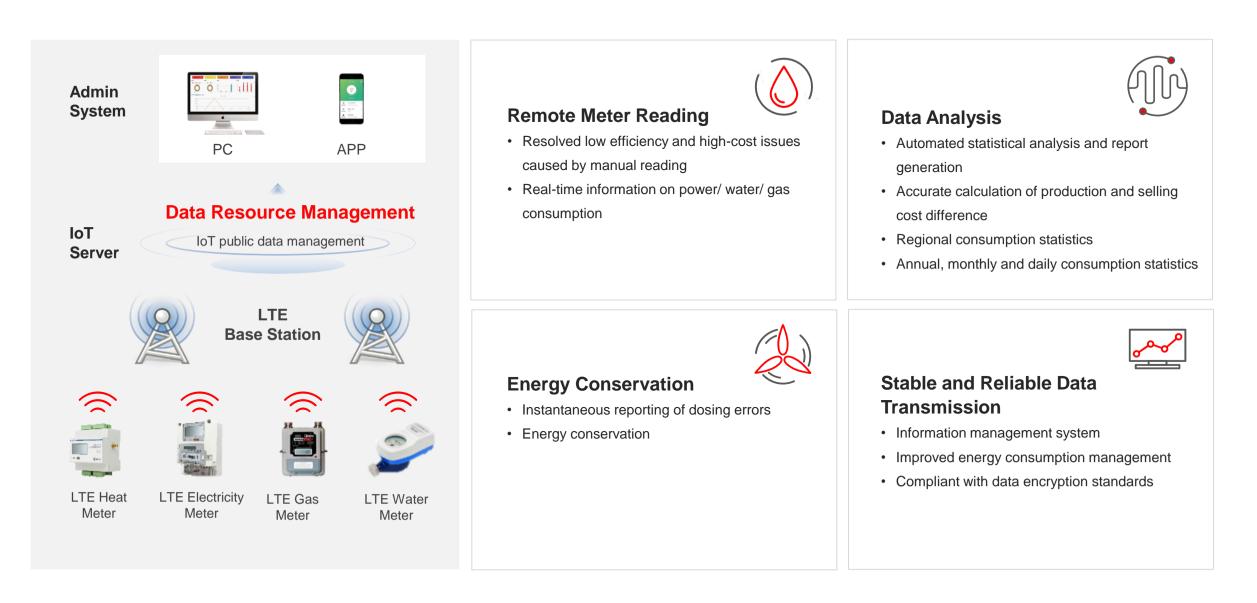
Tracker





Smart Meter





Payment





2G/3G phaseout

Over **100 million** 2G/ 3G POS terminals still in use

Over **10 million** of new demands placed each year

Due to comprehensive use, the average time for transitioning from 2G/ 3G to 4G is **2 to 3** years

Gradual sunsetting of 2G/3G network will see 2G/3G POS terminals replaced with cost-optimized 4G ones.

Typical Applications



Intelligent Transportation



Smart Energy

- S Ammeter
- Sas Meters
- Water Meters
- Thermal Meters
- Smart Grid
- Wind Generators
- Solar Power Generation
- Charging Piles

Payment

- Wireless POS
- Cash Registers
- S ATM
- Vending Machines
- S Top-up Machines



Typical Applications



Smart City

Street Lighting

- Traffic Lights
- Sharing Economy
- Elevator Monitoring
- Smart Parking
- Parking Meters

- Toll Collection Systems
- Digital Indicators
- S Advertising Boards
- 💊 Smart Bins
- LED Landscape Lighting
 - Control

- DTUs
 Consumers of the
- Consumers Routers

Wireless Gateway

- Industrial Routers
- 💊 VolP
- Servers
- SWi-Fi Hotspots

Intelligent Agriculture & Environmental Monitoring

- Food Traceability
- Farmland Monitoring
- S Farm Management
- S Meteorological Stations
- Wildlife Protection
- Farm Irrigation
- Environmental Monitoring



Typical Applications



Intelligent Industrial

- S Industrial PDAs/ Scanners
- Industrial PCs
- Industrial Computers
- Pipeline Monitoring
- Robots
- Flowmeters
- 💊 UAV
- Industrial Refrigeration
- Indoor Air Detection
- S Water Valves/ Pump Controls

Smart Life & Healthcare

- Personal Trackers
- Pet Trackers
- S Wearables
- S Home Automation
- Elderly Monitoring
- Remote Medical Equipment
- Glucometers

- S Blood Pressure Meters
- Seame Machines
- Patient Monitoring
- S Mobile PCs

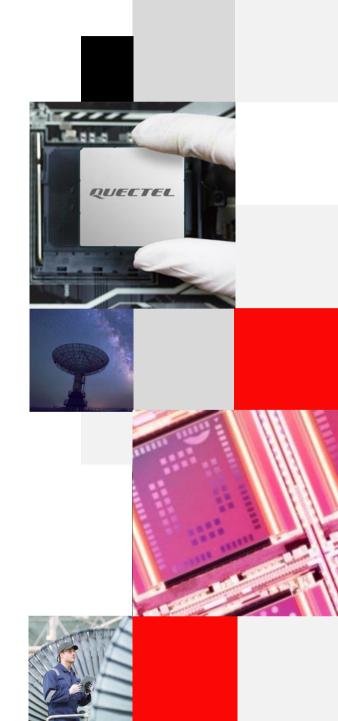
Smart Safety

- Alarms
 Intrusion Detectors
 Smoke Detectors
- Gas Detectors
- Motion Sensors
- Asset Protection





Highlights Specifications Enhanced Technologies Typical Applications **Customer Support**



360 Degree Support





Antenna debugging



We are a global IoT solutions provider, backed by outstanding support and services, to deliver a smarter world.

- Unbeatable choice from the broadest module portfolio in the world
- High quality range of off-the-shelf and customized antennas
- Superb support with the largest R&D team in the industry
- Continuous innovation in 5G, LPWA, Automotive, and Smart module technology
- A passionate, dedicated team of "Quectelers" ensures our customers always come first

Build a Smarter World

Thanklou

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