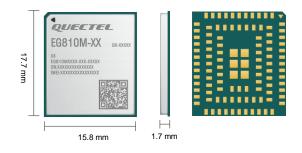


Quectel EG810M-EU IoT/M2M-optimized LTE Cat 1 Module



EG810M-EU is an LTE Cat 1 wireless communication module specially designed by Quectel for M2M and IoT applications. It supports maximum data rates of 10 Mbps downlink and 5 Mbps uplink and has an ultra-high cost performance. Designed in the compact and unified form factor, EG810M-EU is compatible with LTE Standard EG800K series module in package.

EG810M-EU adopts the laser engraving process to get a more fashionable appearance, strong metallic texture, better heat dissipation, durable label information, which makes it more suitable for automation requirements.

A rich set of Internet protocols, industry-standard interfaces, a variety of drivers and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10/11, Linux, Android and other operating systems) extend the applicability of the module to a wide range of M2M and IoT applications such as Cloud Trumpet, Tracker, POS, IPC, data card, smart safety and Industrial PDA, and its ultra-thin design (1.7 mm in thickness) is also very suitable for thickness-critical products such as ear-hook walkie-talkies, student cards, and watches.



Key Features

- Ultra-small size, designed for M2M and IoT applications, especially for small-size terminals
- Support remote DFOTA, reducing later operation and maintenance costs
- Support Wi-Fi Scan
- Super cost-effective





LGA Package



Embedded

Abundant Protocols

LTE Cat 1 Max. 10 Mbps (DL) Max. 5 Mbps (UL)



USB 2.0 High Speed Interface





Wi-Fi Scan

DFOTA

DFOTA



Vol TF



Version: 1.1 | Status: Released

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Quectel EG810M-EU

		4400101	
LTE Cat 1	EG810M-EU		
Region/ Operator	Europe		
Package	LGA		
Dimensions (mm)	17.7 × 15.8 × 1.7		
Weight (g)	Approx. 0.98		
Temperature Range			
Operating Temperature	-35 °C to +75 °C		
Extended Temperature	-40 °C to +85 °C		
Frequency Bands			
LTE-FDD	B1/ 3/ 5/ 7/ 8/ 20/ 28		
LTE-TDD	-		
Certifications			
Regulatory	Europe: CE Australia/ New Zealand: RCM		
Others	WHQL		
Data Rates			
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)		
LTE-TDD (Mbps)	-		
Interfaces			
USIM	\times 2, 1.8/ 3.0 V ^{(1)}		
UART	× 3 (main, debug and $auxiliary^{ extsf{@}}$)		
USB 2.0	×1		
Analog Audio (Optional)	Input: × 1 (Microphone) Output: × 1 (Earpiece)		
PCM (Digital Audio) (Optional)	× 1		
ADC	× 2		
NET_STATUS	× 1		
STATUS	× 1		
I2C (Optional)	× 1 (QuecOpen [®] solution: × 2)		
LCM ²	×1		
PWM [®]	× 4		
Camera [®]	× 1		
Matrix Keypad (3× 3) ²	× 1		
SPI®	× 3		
USB_BOOT	× 1		
RESET_N	× 1		
PWRKEY	× 1		
Main Antenna	× 1		
Audio			
Speech codec mode	MP3/AMR/WAV		
Voice	Digital Audio, Analog Audio, VoLTE		
Enhanced Features			
DFOTA	•		
DTMF	0		
Audio Playback/ Audio Recording	0		
Wi-Fi Scan	•		
QuecOpen®	0		
QuecPython®	0		
QuecFile®	•		
USIM Card Detection	•		

NOTE:

1. ①: Only USIM 1 supports USIM card detection.

2. (2): Only supported by $\mathsf{QuecOpen}^{\circledast}$ solution.

3. ●: Supported.

4. O: Optional.

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LTE Cat 1		EG810M-EU		
Software Fe	atures			
Protocol		TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ CMUX*/ MMS*/ SMTP*/ SMTPS*		
Drivers	RIL	Android 4.x–13.x		
	USB RNDIS	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5		
	USB ECM	Linux 2.6–6.5		
	USB Serial	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–6.5 Android 4.x–13.x		
Electrical Ch	aracteristics			
Power Supply		3.4–4.3 V, typ. 3.8 V		
Power Consumption (Typical)		17.6 μA @ Power off 0.73 mA @ LTE Sleep 19.2 mA @ Idle (USB connected) 29.3 mA @ Idle (USB disconnected)		

NOTE:

*: In progress.

