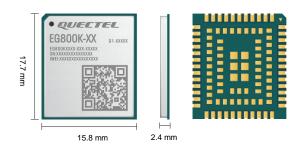


Quectel EG800K Series

IoT/ M2M-optimized LTE Cat 1 bis Module



EG800K Series is an LTE Cat 1 bis 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, EG800K Series is compatible with LTE Standard EC800M-CN, EC800K-CN and EG810M series modules in package.

EG800K Series consists of three models: EG800K-CN, EG800K-EU and EG800K-LA, covering the frequency band of different countries and regions; EG800K series 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 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.



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 (Optional)
- ✓ Support GNSS (Optional)
- ✓ Super cost-effective



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



USB 2.0 High Speed Interface



LGA Package



Embedded
Abundant Protocols



GNSS (Optional)



USB Drivers



Quectel Enhanced



DFOTA

Quectel EG800K Series

			•	LOOUN Serie
LTE Cat	1 bis	EG800K-CN	EG800K-EU	EG800K-LA
Region/ Operator		China/ India	Europe/ Australia/ New Zealand	Latin America
Package		LGA	LGA	LGA
Dimensions		17.7 mm × 15.8 mm × 2.4 mm	17.7 mm × 15.8 mm × 2.4 mm	17.7 mm × 15.8 mm × 2.4 mm
Weight		Approx. 1.37 g	Approx. 1.40 g	Approx. 1.36 g
	ture Range	, Approx. 1.57 g	льргол. 1. 10 8	7,551.50.5
		-35 °C to +75 °C	-35 °C to +75 °C	-35 °C ~ +75 °C
Operating Temperature Extended Temperature		-40 °C to +85 °C	-40 °C to +85 °C	-40 °C ~ +85 °C
Frequency Bands		-40 6 10 103 6	-40 C to 105 C	-40 C 103 C
TE-FDD	y Darius	B1/3/5/8	B1/3/5/7/8/20/28	B2/3/4/5/7/8/28/66
		B34/ B38/ B39/ B40/ B41	-	BZ/ 3/ 4/ 3/ 7/ 8/ 28/ 00
LTE-TDD GNSS				-
iNSS ertificati		GPS/ BDS/ GLONASS	-	-
ertificati	ions		F CF	Associate FCC
Regulatory		China: SRRC/ NAL/ CCC	Europe: CE Australia/ New Zealand: RCM	America: FCC Brazil: Anatel*
Others		WHQL	WHQL	WHQL
Max. Data	a Rates			
LTE-FDD (Mbps)		10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)		8.96 (DL)/ 3.1 (UL)	-	-
nterfaces				
USIM		× 1, 1.8/3.0 V	× 1, 1.8/3.0 V	× 1, 1.8/ 3.0 V
UART		× 2 (main, debug)	× 3 (main, debug and auxiliary*)	× 3 (main, debug and auxiliary*)
USB 2.0		×1	× 1	× 1
ADC		× 2	× 2	× 2
NET_STATUS		×1	×1	×1
STATUS		×1	×1	×1
12C*		×1	×1	×1
USB_BOOT		×1	×1	× 1
RESET_N		×1	×1	×1
PWRKEY		×1	×1	×1 ×1
GNSS Antenna		×1	-	-
		×1 ×1		
LTE/ Wi-Fi Scan Antenna Enhanced Features		×1	×1	× 1
	l Features	L		
DFOTA		•	•	•
Wi-Fi Scan		0	0	0
QuecFile®		•	•	•
USIM Card Detection		•	•	•
oftware	Features			
Protocols ^①		TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ FILE/ SSL/ MQTT	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP / PING/ HTTPS/ FTPS/ FILE/ SSL/ MQTT	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ FILE/ SSL/ MQTT
	RIL	Android 4.x–13.x	Android 4.x–13.x	Android 4.x–13.x
		Windows 8.1/ 10/ 11	Windows 8.1/10/11	Windows 8.1/ 10/ 11
	USB RNDIS	Linux 2.6–6.7	Linux 2.6–6.7	Linux 2.6–6.7
rivers	USB ECM	Linux 2.6~6.7	Linux 2.6–6.7	Linux 2.6–6.5
		Windows 8.1/ 10/ 11	Windows 8.1/10/11	Windows 8.1/10/11
	USB Serial	Linux 2.6–6.7	Linux 2.6–6.7	Linux 2.6–6.7
		Android 4.x–13.x	Android 4.x–13.x	Android 4.x–13.x
lectrical	Characteristics			
Power Supply		3.4–4.3 V, typ. 3.8 V	3.4–4.3 V, typ. 3.8 V	3.4–4.3 V, typ. 3.8 V
Power Consumption (Typical)		6.15 μA @ Power off 0.82 mA @ LTE-FDD Sleep (PF = 128)	7.47 μA @ Power off 0.64 mA @ LTE-FDD Sleep (PF = 128) 0.56 mA @ LTE-FDD Sleep (PF = 256)	7.68 µA @ Power off 0.73 mA @ LTE-FDD Sleep (PF = 128 0.64 mA @ LTE-FDD Sleep (PF = 256
	nsumption	0.72 mA @ LTE-FDD Sleep (PF = 256) 7.98 mA @ LTE-TDD Idle (PF = 64, USB disconnected) 19.46 mA @ LTE-TDD Idle	7.82 mA @ LTE-FDD Idle (PF = 64, USB disconnected) 19.66 mA @ LTE-FDD Idle	7.43 mA @ LTE-FDD Idle (PF = 64, USB disconnected) 19 mA @ LTE-FDD Idle

NOTE:

- 1. *: In progress/ Under development.
- 2. •: Supported.
- 3. o: Optional.
- 4. : The PPP, FTP, HTTP, HTTPS, FTPS and FILE protocols are optional.

