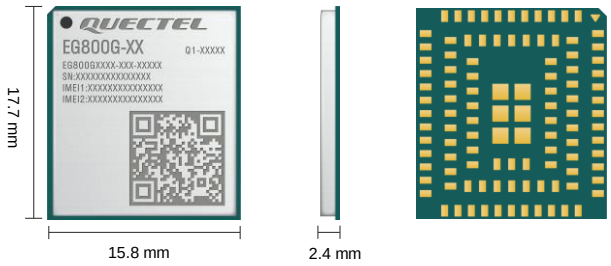
Quectel EG800G Series

IoT/M2M-optimized LTE Cat 1bis Module



Quectel EG800G series is the LTE Cat 1bis module optimized specially for M2M and IoT applications. It delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink and it is cost-effective. Designed in the compact and unified form factor, EG800G series is compatible with Quectel LTE Standard EC800M-CN and EG800Q series modules, ensuring that it can meet the needs of different industry applications.

EG800G series covers the frequency bands of different countries and regions including China, India, EMEA, Australia, New Zealand and Latin America. It can achieve good network coverage with existing 4G networks, featuring ultra-low power consumption, low latency and good mobility. Through laser engraving, EG800G series features a neat appearance, strong metallic texture, improved heat dissipation, and durable label, which makes it ideal for automation.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 10/11, Linux and Android) extend the implementability of the module to a wide range of M2M and IoT applications such as tracker, POS, PoC, ETC, CPE, shared equipment, data card, energy control and monitoring, smart safety, and industrial PDA.

Key Features

- LTE Cat 1bis module optimized for M2M and IoT applications
- Wide LTE coverage
- Abundant functional interfaces
- EG800G-CN supports GNSS
- Wi-Fi Scan
- DFOTA
- Cost-effective

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

Embedded Abundant Protocols

LGA Package

Wi-Fi Scan

GNSS (EG800G-CN)

DFOTA

USB 2.0 High Speed Interface

USB Driver

Quectel Enhanced AT Commands

Version: 1.3 | Status: Released

Quectel EG800G Series

LTE Cat 1bis	EG800G-CN	EG800G-EU	EG800G-LA
Region	China/India	EMEA/Australia/New Zealand	Latin America
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
Temperature Range			
Operating Temperature Range	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature Range	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands			
LTE-FDD	B1/3/5/8	B1/3/5/7/8/20/28	B2/3/4/5/7/8/28/66
LTE-TDD	B34/38/39/40/41	-	-
Wi-Fi Scan	2.4 GHz 11b (Rx)	2.4 GHz 11b (Rx)	2.4 GHz 11b (Rx)
GNSS	GPS/BDS/QZSS	-	-
Certifications			
Carrier	**China**: China Telecom/China Mobile/ China Unicom①	-	-
Regulatory	**China:** SRRC/NAL/CCC	**Global:** GCF **Europe:** CE **The UK:** UKCA **Taiwan, China:** NCC① **Australia/New Zealand:** RCM	**Brazil:** Anatel
Others	RoHS/WHQL	RoHS/WHQL	RoHS/WHQL
Max. Data Rates			
LTE-FDD	10 Mbps (DL)/ 5 Mbps (UL)	10 Mbps (DL)/ 5 Mbps (UL)	10 Mbps (DL)/ 5 Mbps (UL)
LTE-TDD	8.96 Mbps (DL)/ 3.1 Mbps (UL)	-	-
Interfaces			
(U)SIM	× 2	× 2	× 2
UART	× 3 (QuecOpen®: × 5)	× 3 (QuecOpen®: × 5)	× 3 (QuecOpen®: × 5)
USB 2.0	× 1	× 1	× 1
Digital Audio (PCM)	× 1	× 1	× 1
SPI	× 2 (QuecOpen®)	× 2 (QuecOpen®)	× 2 (QuecOpen®)
ADC	× 2	× 2	× 2
I2C	× 1 (QuecOpen®: × 3)	× 1 (QuecOpen®: × 3)	× 1 (QuecOpen®: × 3)
RESET_N	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1
LCM	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
SDIO*	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
Main Antenna	× 1	× 1	× 1
Wi-Fi Scan Antenna	share the same interface with main antenna	× 1	× 1
GNSS Antenna	× 1	-	-
Camera	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
5 × 5 Matrix Keypad	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
Enhanced Features			
DFOTA	●	●	●
Audio Playback/Audio Recording	●	-	-
QuecPython®	●	●	●
QuecFile®	●	●	●
USIM1 Detection	●	●	●
GNSS	●	-	-
Wi-Fi Scan	●	●	●
Software Features			
Protocols	TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/ PING/CMUX/HTTPS/FTPS/SSL/FILE/ MQTT/MMS/SMTP/SMTPS/SMS	TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/ PING/CMUX/HTTPS/FTPS/SSL/ FILE/MQTT/SMS	TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/ PING/CMUX/HTTPS/FTPS/SSL/ FILE/MQTT/SMS
Drivers – **GNSS**	Android 4.x–16.x	-	-
Drivers – **RIL**	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x
Drivers – **USB RNDIS**	Windows 10/11 Linux 2.6–6.17	Windows 10/11 Linux 2.6–6.17	Windows 10/11 Linux 2.6–6.17
Drivers – **USB ECM**	Linux 2.6–6.17	Linux 2.6–6.17	Linux 2.6–6.17
Drivers – **USB Serial**	Windows 10/11 Linux 2.6–6.17 Android 4.x–14.x	Windows 10/11 Linux 2.6–6.17 Android 4.x–14.x	Windows 10/11 Linux 2.6–6.17 Android 4.x–14.x
Electrical Features			
Supply Voltage Range	3.3 V–4.3 V, typ. 3.8 V	3.3 V–4.3 V, typ. 3.8 V	3.3 V–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	15 μA @ Power Off 1.34 mA @ LTE Sleep (PF = 128) 1.17 mA @ LTE Sleep (PF = 256) 10.12 mA @ Idle (PF = 64, USB Disconnected) 25.34 mA @ Idle (PF = 64, USB Connected)	15 μA @ Power Off 1.26 mA @ LTE Sleep (PF = 128) 1.07 mA @ LTE Sleep (PF = 256) 10.01 mA @ Idle (PF = 64, USB Disconnected) 24.85 mA @ Idle (PF = 64, USB Connected)	15 μA @ Power Off 1.23 mA @ LTE Sleep (PF = 128) 1.04 mA @ LTE Sleep (PF = 256) 10.07 mA @ Idle (PF = 64, USB Disconnected) 24.86 mA @ Idle (PF = 64, USB Connected)

NOTE:

1. ①: To be determined.
2. *: Under development.
3. ●: Supported.

Copyright © 2026 Quectel Wireless Solutions Co., Ltd. All Rights Reserved http://www.quectel.com
Quectel Global Center: No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China
Tel: +86 21 51086236 Email: info@quectel.com