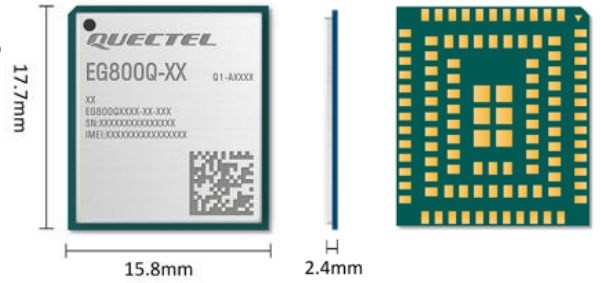


Quectel EG800Q Series

IoT/M2M-optimized LTE Cat 1 Module



Quectel EG800Q is a series of LTE Cat 1 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-14 LTE technology and supporting Cat 1 bis, it delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10/11, Linux, Android) extend the applicability of the module to a wide range of M2M and IoT applications, such as asset management, commercial telematics, payment, RMAC (Remotely Managed Access Control), security and automation, smart metering and smart grid.



Key Features

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ LTE-FDD coverage
- ✓ Supports DFOTA
- ✓ Single antenna
- ✓ LTE module in compact size
- ✓ Supports Wi-Fi Scan



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



Compact Size



LGA Package



Embedded Abundant
Protocols



DFOTA



Quectel Enhanced
AT Commands



USB 2.0 High Speed
Interface

Quectel EG800Q

LTE Cat 1	EG800Q-EU	EG800Q-NA
Region/Operator	Europe	North America
Dimensions (mm)	17.7 × 15.8 × 2.4	17.7 × 15.8 × 2.4
Weight (g)	Approx. 2.0	Approx. 2.0
Package	LGA	LGA
Temperature Range		
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands		
LTE-FDD	B1/3/5/7/8/20/28	B2/4/5/12/13/66/71
Certifications		
Carrier	Europe : Deutsche Telekom	America : Verizon*/AT&T*/T-Mobile*
Regulatory	Europe : CE The UK : UKCA Australia/New Zealand : RCM	Global : GCF* North America : PTCRB* America : FCC* Canada : IC*
Others	WHQL	WHQL
Max. Data Rates		
LTE-FDD (Mbps)	10 (DL)/5 (UL)	10 (DL)/5 (UL)
Interfaces		
USB 2.0	× 1	× 1
Digital Audio (PCM)*	× 1	× 1
USIM	× 1	× 1
NET_STATUS	× 1	× 1
UART	× 3 (Main, Debug and Auxiliary UART*)	× 3 (Main, Debug and Auxiliary UART*)
ADC	× 2	× 2
RESET_N	× 1	× 1
PWRKEY	× 1	× 1
I2C	× 1	× 1
USB_BOOT	× 1	× 1
Antenna	× 1 (Main Antenna)	× 1 (Main Antenna)
Voice		
Speech Codec Modes*	AMR/ WAV	AMR/ WAV
Audio*	Digital audio	Digital audio
Software Features		
Protocols	TCP/UDP/NTP/NITZ/FTP/HTTP/PING/HTTPS/FTPS/SSL/MQTT /CMUX/PPP/FILE/MMS*/SMTP*/SMTPS*	TCP/UDP/NTP/NITZ/FTP/HTTP/PING/HTTPS/FTPS/SSL/MQTT /CMUX/PPP/FILE/MMS*/SMTP*/SMTPS*
USB Serial Driver	Windows 7/8/8.1/10/11 Linux 2.6–5.18 Android 4.x–12.x*	Windows 7/8/8.1/10/11 Linux 2.6–5.18 Android 4.x–12.x*
RIL Driver	Android 4.x–12.x*	Android 4.x–12.x*
USB RNDIS Driver	Windows 7/8/8.1/10/11 Linux 2.6–5.18	Windows 7/8/8.1/10/11 Linux 2.6–5.18*
USB ECM Driver	Linux 2.6–5.18	Linux 2.6–5.18*
Enhanced Features		
DFOTA	●	●
QuecLocator®*	●	●
Wi-Fi Scan	●	●
USIM Card Detection	●	●
Electrical Features		
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	50 μA @ Power off Mode 0.06 mA @ Sleep Mode (AT+CFUN = 0, USB disconnected) 0.16 mA @ Sleep Mode (AT+CFUN = 4, USB disconnected) 4.50 mA @ Idle Mode (PF = 64, USB disconnected) 22.30 mA @ Idle Mode (PF = 64, USB connected)	TBD

NOTE:

1. *: Under development/In progress.
2. ●: Supported.