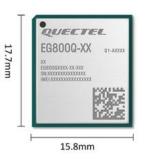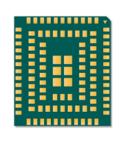# Quectel EG800Q-EU

IoT/M2M-optimized
LTE Cat 1 Module

17.7mm

15.8mm

2.4mm

Quectel EG800Q-EU is an 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

4G LTE
LTE Cat 1
Max. 10 Mbps (DL)
Max. 5 Mbps (UL)

Compact Size

LGA
LGA Package

Embedded Abundant Protocols

DFOTA
DFOTA

AT
Quectel Enhanced AT Commands

USB 2.0 High Speed Interface

Version: 1.2 | Status: Released

LTE Cat 1	EG800Q-EU
Region/Operator	Europe
Dimensions (mm)	17.7 × 15.8 × 2.4
Weight (g)	Approx. 2.0
Package	LGA
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
Certifications	
Carrier	**Europe :** Deutsche Telekom
Regulatory	**Europe :** CE **The UK :** UKCA **Australia/New Zealand :** RCM
Others	WHQL
Max. Data Rates	
LTE-FDD (Mbps)	10 (DL)/5 (UL)
Interfaces	
USB 2.0	× 1
Digital Audio (PCM)*	× 1
USIM	× 1
NET_STATUS	× 1
UART	× 3 (Main, Debug and Auxiliary UART*)
ADC	× 2
RESET_N	× 1
PWRKEY	× 1
I2C	× 1
USB_BOOT	× 1
Antenna	× 1 (Main Antenna)
Voice	
Speech Codec Modes*	AMR/ WAV
Audio*	Digital audio
Software Features	
Protocols	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*
RIL Driver	Android 4.x–12.x*
USB RNDIS Driver	Windows 7/8/8.1/10/11 Linux 2.6–5.18
USB ECM Driver	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
Power Consumption (Typical)	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)

NOTE:
1. *: Under development.
2. ●: Supported.

QUECTEL