Quectel EG25-GL

IoT/M2M-optimized LTE Cat 4 Module

29.0 mm
32.0 mm
2.4 mm
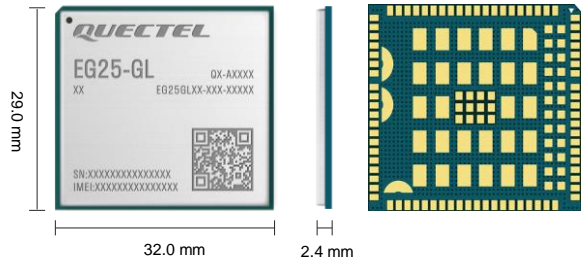
Quectel EG25-GL is an LTE Cat 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-11 LTE technology, it delivers maximum data rates up to 150 Mbps downlink and 50 Mbps uplink. Designed in the compact and unified form factor, EG25-GL is compatible with Quectel UMTS/HSPA+ UC200A-GL module and multi-mode LTE Standard EC2x series (EC25 series, EC21 series and EC20-CE)/EC200A series/EG21-G/EG25-G modules, which allow for flexible migration among them in design and use.

EG25-GL is backward-compatible with existing EDGE and GSM/GPRS networks, ensuring that it can be connected even in remote areas devoid of 4G or 3G coverage.

EG25-GL supports Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BDS, Galileo and QZSS). The integrated GNSS greatly simplifies product design, and provides quicker, more accurate and more dependable positioning.

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 industrial router, industrial PDA, rugged tablet PC, video surveillance, and digital signage.

Key Features

✔ LTE Cat 4 module optimized for M2M and IoT applications

✔ Worldwide LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage

✔ Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment

✔ Feature refinements: supports DFOTA and DTMF

✔ MIMO technology meets demands for data rate and link reliability in modem wireless communication systems

4G LTE
LTE Cat 4
Max. 150 Mbps (DL)
Max. 50 Mbps (UL)

3G HSPA+
Max. 42 Mbps (DL)
Max. 5.76 Mbps (UL)

LGA
LGA Package

USB Drivers

AT
Quectel Enhanced AT Commands

USB 2.0 High Speed Interface

Embedded Abundant Protocols

Multi-constellation GNSS (optional)

LTE Cat 4	EG25-GL
Region/Operator	Global
Dimensions (mm)	29.0 × 32.0 × 2.4
Weight (g)	Approx. 4.9
Temperature Range	
Operating Temperature	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C
Frequency Bands	
LTE-FDD	B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66
LTE-TDD	B34/38/39/40/41
WCDMA	B1/2/4/5/6/8/19
TD-SCDMA	-
GSM/EDGE	B2/3/5/8
GNSS (Optional)	GPS/GLONASS/BDS/Galileo/QZSS
Certifications	
Carrier	**America**: Verizon*/AT&T*
Regulatory	**Global**: GCF **Europe**: CE **North America**: PTCRB **America**: FCC **Canada**: IC **Brazil**: Anatel* **China**: SRRC/NAL/CCC **Taiwan, China**: NCC **Japan**: JATE*/TELEC* **Australia/New Zealand**: RCM
Others	RoHS/WHQL
Max. Data Rates	
LTE-FDD (Mbps)	150 (DL)/50 (UL)
LTE-TDD (Mbps)	130 (DL)/30 (UL)
DC-HSPA+ (Mbps)	42 (DL)/5.76 (UL)
WCDMA (kbps)	384 (DL)/384 (UL)
EDGE (kbps)	296 (DL)/236.8 (UL)
GPRS (kbps)	107 (DL)/85.6 (UL)
Interfaces	
(U)SIM	× 2
UART	× 2 （Main & Debug UART)
USB 2.0	× 1
SDIO	× 1
Digital Audio (PCM)	× 1
ADC	× 2
Voice	
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB
Echo Arithmetic	Echo Cancellation/Noise Suppression
VoLTE (Optional)	Digital Audio and VoLTE (Voice over LTE)
Enhanced Features	
DTMF	●
DFOTA	●
QMI/RmNet	●
Audio Playback/Audio Recording	Optional
QuecOpen®	-
QuecLocator®	●
QuecFile®	●
(U)SIM Card Detection	●

NOTE:
1. * : In progress.
2. ●: Supported.

QUECTEL

LTE Cat 4	EG25-GL
Software Features	
Protocols	TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/SMTP/MQTT/CMUX/HTTPS/FTPS/SMTPS/SSL/MMS/FILE
Drivers	
USB Serial Driver	Windows 7/8/8.1/10/11 Linux 2.6–5.18 Android 4.x–12.x
GNSS Driver	Android 4.x–12.x
RIL Driver	Android 4.x–12.x
USB NDIS Driver	Windows 7/8/8.1/10/11
USB GobiNet Driver	Linux 2.6–5.18
USB QMI_WWAN Driver	Linux 3.4–5.18
Electrical Features	
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	7 µA @ Power off 1.3 mA @ Sleep 15.7 mA @ Idle