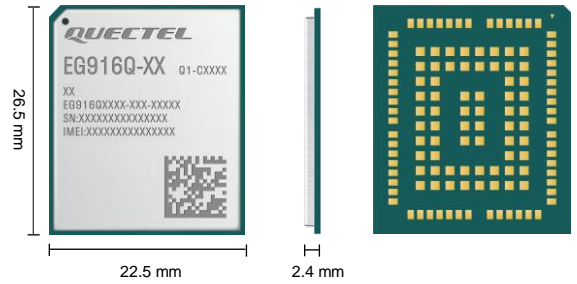


# Quectel EG916Q-GL

## IoT/M2M-optimized LTE Cat 1 bis Module



Quectel EG916Q-GL is an LTE Cat 1 bis module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-14 LTE technology, it delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor, EG916Q-GL is compatible with Quectel LPWA BG95 series and BG96 modules and LTE Standard EG91 series, EG95 series and EG915Q series modules.

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



### Key Features

- ✓ LTE network coverage
- ✓ Supports DFOTA
- ✓ Main/ Wi-Fi Scan antenna and GNSS antenna (Optional)
- ✓ LTE module in compact size
- ✓ Supports Wi-Fi Scan



LTE Cat 1 bis  
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 EG916Q-GL

LTE Cat 1 bis	EG916Q-GL
Region/ Operator	Global
Dimensions (mm)	26.5 × 22.5 × 2.4
Weight (g)	Approx. 2.9
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
GNSS (Optional)	GPS/ GLONASS/ BDS/ Galileo/ QZSS
Certifications	
Carrier	America: Verizon/ AT&T/ T-Mobile*
Regulatory	Global: GCF Europe: CE North America: PTCRB America: FCC The UK: UKCA* Canada: IC Brazil: Anatel China: SRRC*/ NAL*/ CCC Korea: KC Japan: JATE/ TELEC Australia/ New Zealand: RCM South Africa: ICASA*
Others	WHQL
Max. Data Rates	
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)
Interfaces	
USIM <sup>①</sup>	× 2 (1.8/ 3.0 V)
UART	× 4 (Main, Debug, GNSS <sup>③</sup> and GNSS Debug UART <sup>③</sup> )
USB 2.0	× 1
RESET_N	× 1
PWRKEY	× 1
Digital Audio (PCM)*	× 1
I2C*	× 1
Camera SPI* <sup>②</sup>	× 1
ADC	× 2
USB_BOOT	× 1
GRFC	× 2
Main/ Wi-Fi Scan Antenna	× 1
GNSS Antenna <sup>③</sup>	× 1

#### NOTE:

- ① : When the USIM2 interface is enabled, both USIM1 and USIM2 interfaces support 1.8 V USIM cards only.
- ② : Camera SPI and USIM2 are multiplexing pins, so they cannot be used at the same time.
- ③ : GNSS UART, GNSS Debug UART and GNSS antenna interfaces are optional.
- \*: Under development/ In progress.

# Quectel EG916Q-GL

LTE Cat 1 bis	EG916Q-GL
<b>Software Features</b>	
Protocols	TCP/UDP/NTP/NITZ/FTP/HTTP/PING/HTTPS/FTPS/SSL/MQTT/CMUX/PPP/FILE/SMTP/SMTSP/MMS*
USB Serial Driver	Windows 8.1/10/11 Linux 2.6–6.7 Android 4.x–13.x
RIL Driver	Android 4.x–13.x
USB RNDIS Driver	Windows 8.1/10/11 Linux 2.6–6.7
USB ECM Driver	Linux 2.6–6.7
<b>Enhanced Features</b>	
DFOTA	●
Wi-Fi Scan	●
USIM1 Card Detection	●
<b>Electrical Features</b>	
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	0.5 μA @ Power Off 54 μA @ Sleep Mode (AT+CFUN = 0, USB Disconnected) 0.135 mA @ Sleep Mode (AT+CFUN = 4, USB Disconnected) 4.5 mA @ Idle Mode (PF = 64, USB Disconnected) 25.8 mA @ Idle Mode (PF = 64, USB Connected)

NOTE:

- \*: Under development.
- : Supported.