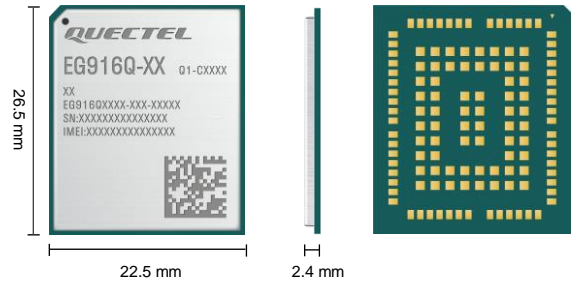


# Quectel EG916Q-GL

## 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-NA modules.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 7/ 8/ 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 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. 2.6  |
| 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*<br>Europe: CE*<br>North America: PTCRB*<br>America: FCC*<br>The UK: UKCA*<br>Canada: IC*<br>Brazil: Anatel*<br>China: SRRC*/ NAL*/ CCC*<br>Korea: KC*<br>Australia/ New Zealand: RCM*<br>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  |
| Antenna                  | × 2 (Main and GNSS Antennas <sup>③</sup> )   |

#### 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 7/8/8.1/10/11<br>Linux 2.6–6.5<br>Android 4.x–13.x   |
| RIL Driver                 | Android 4.x–13.x   |
| USB RNDIS Driver           | Windows 7/8/8.1/10/11<br>Linux 2.6–6.5   |
| USB ECM Driver             | Linux 2.6–6.5  |
| <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.)   | 0.4 $\mu$ A @ Power off<br>45 $\mu$ A @ Sleep Mode (AT+CFUN = 0, USB Disconnected)<br>0.125 mA @ Sleep Mode (AT+CFUN = 4, USB Disconnected)<br>0.68 mA @ Idle Mode (PF = 64, USB Disconnected)<br>25.8 mA @ Idle Mode (PF = 64, USB Connected) |

NOTE:

- \*: Under development.
- : Supported.