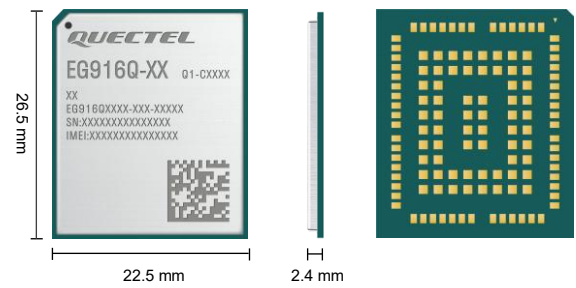


Quectel EG916Q-GL

IoT/M2M-optimized
LTE Cat 1bis Module



Quectel EG916Q-GL is an LTE Cat 1bis 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 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 1bis
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 1bis	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 Europe: Vodafone/ Telefónica* Japan: NTT DOCOMO/ KDDI
Regulatory/ Conformance	Global: GCF Europe: CE North America: PTCRB America: FCC Canada: IC Brazil: Anatel China: SRRC/ CCC Korea: KC Japan: JATE/ TELEC Australia/ New Zealand: RCM
Others	WHQL
Max. Data Rates	
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)
Interfaces	
USIM ^①	× 2 (1.8/ 3.0 V)
UART	× 4 (Main, Debug, GNSS ^③ and GNSS Debug UART ^③)
USB 2.0	× 1
RESET_N	× 1
PWRKEY	× 1
Digital Audio (PCM)*	× 1
I2C*	× 1
Camera SPI* ^②	× 1
ADC	× 2
USB_BOOT	× 1
GRFC	× 2
Main/ Wi-Fi Scan Antenna	× 1
GNSS Antenna ^③	× 1
Software Features	
Protocols	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*
USB Serial Driver	Windows 10/ 11 Linux 2.6–6.17 Android 4.x–14.x
RIL Driver	Android 4.x–16.x
USB RNDIS Driver	Windows 10/ 11 Linux 2.6–7.0
USB ECM Driver	Linux 2.6–7.0
Enhanced Features	
DFOTA	●
Wi-Fi Scan	●
USIM1 Card Detection	●
Electrical Features	
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V 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:

- 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.
- : Supported.