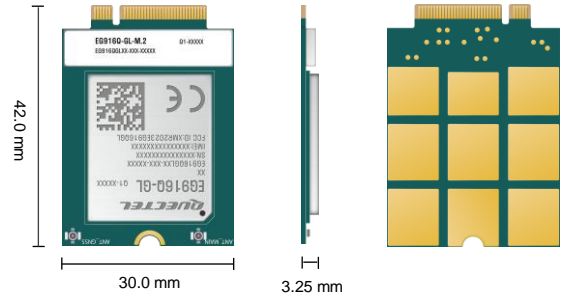


Quectel EG916Q-GL M.2

IoT/ M2M-optimized LTE Cat 1 bis Module



Quectel EG916Q-GL M.2 is an LTE Cat 1 bis module adopting standard M.2 form factor. It is optimized specially for M2M and IoT applications, and delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink.

With high integration level and a cost-effective SMT form factor, EG916Q-GL M.2 enables integrators and developers to easily design their applications and take advantage from the module's low power consumption and mechanical intensity.

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 aftermarket telematics, asset management, commercial telematics, emerging verticals, fixed wireless access (FWA), PDA, smart safety and telehealth.



Key Features

- ✓ Cost-effective, lower-power LTE connectivity optimized for broadband IoT applications
- ✓ Standard M.2 form factor ideal for manufacturers to easily integrate wireless connectivity into devices
- ✓ Robust mounting and interfaces
- ✓ GNSS (optional)



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



USB 2.0 High Speed
Interface



Embedded Abundant
Protocols



DFOTA



Quectel Enhanced
AT Commands



USB Drivers

Quectel EG916Q-GL M.2

| LTE Cat 1 bis | EG916Q-GL M.2 |
|--------------------------------|--|
| Region/ Operator | Global |
| Dimensions (mm) | 42.0 × 30.0 × 3.25 |
| Weight (g) | Approx. 6.5 |
| Temperature Range | |
| Operating Temperature | -35 °C to +75 °C |
| Extended Temperature | -40 °C to +80 °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* Global: GCF* Europe: CE* North America: PTCRB* |
| Regulatory | America: FCC* Canada: IC* China: NAL*/ CCC* 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 (1.8/ 3.0 V) |
| USB2.0 | × 1 |
| Control and Indication Signals | W_DISABLE1#*, WWAN_LED#, WOWWAN#*, DPR* |
| PCM (Digital Audio)* | × 1 |
| I2C* | × 1 |
| Antenna | × 2 (Main and GNSS antennas ^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 8.1/ 10/ 11 Linux 2.6–6.7 Android 4.x–14.x |
| RIL Driver | Android 4.x–14.x |
| USB RNDIS Driver | Windows 8.1/ 10/ 11 Linux 2.6–6.7 |
| USB ECM Driver | Linux 2.6–6.7 |
| Enhanced Features | |
| DFOTA | ● |
| Wi-Fi Scan | ● |
| USIM Card Detection | ● |
| Electrical Features | |
| Supply Voltage Range | 3.135–4.4 V, typ. 3.7 V |
| Power Consumption (Typ.) | 50.0 μA @ Power off 0.65 mA @ LTE sleep (PF = 128) 0.53 mA @ LTE sleep (PF = 256) 26.2 mA @ Idle (PF = 64, USB active) |

NOTE:

- ①: GNSS antenna is optional.
- *: Under development/ in progress.
- : Supported.