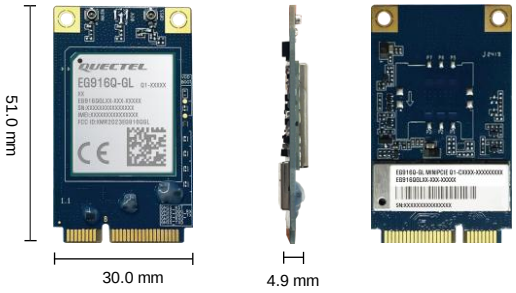
Quectel EG916Q-GL Mini PCIe

IoT/ M2M-optimized LTE Cat 1 bis Module



Quectel EG916Q-GL Mini PCIe is an LTE Cat 1 bis module adopting standard PCI Express Mini Card form factor (Mini PCIe). 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 Mini PCIe 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 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 PCI Express Mini Card form factor (Mini PCIe) ideal for manufacturers to easily integrate wireless connectivity into their devices
- Easy migration from Quectel LTE Mini PCIe modules
- Robust mounting and interfaces
- GNSS (optional)

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

Mini PCIe Package

Embedded Abundant Protocols

DFOTA

Quectel Enhanced AT Commands

USB Drivers

USB 2.0 High Speed Interface

Version: 1.0 | Status: Released

Quectel EG916Q-GL Mini PCIe

LTE Cat 1 bis	EG916Q-GL Mini PCIe
Region/ Operator	Global
Dimensions (mm)	51.0 × 30.0 × 4.9
Weight (g)	Approx. 7.7
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	**Europe**: Vodafone **America**: Verizon*/ AT&T/ T-Mobile
Regulatory	**Global**: GCF* **Europe**: CE* **North America**: PTCRB **America**: FCC* **Canada**: IC* **China**: NAL*/ CCC* **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 (1.8/ 3.0 V)
UART	× 2 (Main UART and Debug UART)
USB 2.0	× 1
RESET_N	× 1
Digital Audio (PCM)*	× 1
I2C*	× 1
Main/ Wi-Fi Scan Antenna	× 1
GNSS Antenna①	× 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 2.6–6.7 Android 4.x–14.x
RIL Driver	Android 4.x–14.x
USB RNDIS Driver	Windows 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	3.0–3.6 V, typ. 3.3 V
Power Consumption (Typ.)	0.89 mA @ LTE-FDD Sleep (AT+CFUN = 0, USB disconnected) 1.09 mA @ LTE-FDD Sleep (AT+CFUN = 4, USB disconnected） 1.83 mA @ LTE-FDD Sleep (PF = 64, USB disconnected） 8.66 mA @ LTE-FDD Idle (PF = 64, USB disconnected) 35.87 mA @ LTE-FDD Idle (PF = 64, USB connected）

NOTE:
1. ①: GNSS antenna interface is optional.
2. *: Under development/ planning/ in progress.
3. ●: Supported.
4. TBD: To Be Determined.

Copyright © 2026 Quectel Wireless Solutions Co., Ltd. All Rights Reserved http://www.quectel.com
Quectel Global Center: No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China
Tel: +86 21 51086236 Email: info@quectel.com