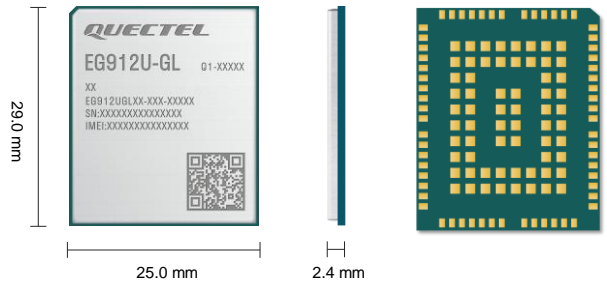


# Quectel EG912U-GL

## IoT/ M2M-optimized LTE Cat 1 Module



Quectel EG912U-GL is the latest LTE Cat 1 module optimized specially for M2M and IoT applications. It delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in the compact and unified form factor, EG912U-GL is compatible with Quectel multi-mode BG95 series, BG96, EG91 series and EG95 series modules, ensuring that it can easily migrate between 2G and 4G network to meet the needs of different industry applications.

EG912U-GL covers the frequency bands of different countries and regions. Through laser engraving, EG912U-GL features a neat appearance, wear resistant and durable label and improved heat dissipation, which makes it ideal for automation.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 7/ 8/ 8.1/ 10/ 11, Linux and Android) extend the implementability of the module to a wide range of M2M and IoT applications such as POS, PoC, ETC, shared equipment, data card, energy control and monitoring, security and protection, and industrial PDA.



## Key Features

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ Worldwide LTE and GSM/ GPRS coverage
- ✓ Abundant functional interfaces
- ✓ Analog audio
- ✓ Bluetooth (Optional)
- ✓ GNSS (Optional)
- ✓ DFOTA
- ✓ Wi-Fi Scan (Optional)

 LTE Cat 1 Max. 10 Mbps (DL) Max. 5 Mbps (UL)	 Embedded Abundant Protocols	 LGA Package
 Multi-constellation GNSS (Optional)	 BLE (Optional)	 DFOTA
 USB 2.0 High Speed Interface	 Wi-Fi Scan (Optional)	 Quectel Enhanced AT Commands

# Quectel EG912U-GL

LTE Cat 1	EG912U-GL	
Region	Global	
Dimensions	29.0 mm × 25.0 mm × 2.4 mm	
Weight	Approx. 3.67 g	
Temperature Range		
Operating Temperature Range	-35 °C to +75 °C	
Extended Temperature Range	-40 °C to +85 °C	
Frequency Bands		
LTE-FDD	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 66	
LTE-TDD	B34/ 38/ 39/ 40/ 41	
GSM	B2/ 3/ 5/ 8	
GNSS (Optional)	GPS/ GLONASS/ BDS/ Galileo/ QZSS	
Bluetooth (Optional)	Bluetooth 4.2 (BR/ EDR + BLE)	
Wi-Fi Scan (Optional)	2.4 GHz 802.11b (Rx)	
Certifications		
Regulatory	Europe: CE* America: FCC* Brazil: Anatel* China: SRRC*/NAL*/ CCC* Taiwan, China: NCC* Australia/ New Zealand: RCM*	
Others	WHQL	
Max. Data Rates		
LTE-FDD	10 Mbps (DL)/ 5 Mbps (UL)	
LTE-TDD	8.96 Mbps (DL)/ 3.1 Mbps (UL)	
GSM	85.6 kbps (DL)/ 85.6 kbps (UL)	
Interfaces		
(U)SIM	× 2 (Optional for (U)SIM2)	
UART	× 3	
USB 2.0	× 1	
Digital Audio (PCM)	× 1	
Analog Audio	Input: × 1 (Microphone) Output: × 1 (Earpiece)	
ADC	× 2	
I2C	× 1	
SPI	× 1	
RESET_N	× 1	
PWRKEY	× 1	
Antennas	× 3, Main Antenna, GNSS Antenna (Optional), Wi-Fi Scan/ Bluetooth Antenna (Optional)	
Voice		
Speech Codec Modes	HR/ FR/ EFR/ AMR/ AMR-WB	
VoLTE	VoLTE (Voice over LTE)	
Enhanced Features		
DTMF	●	
DFOTA	●	
Audio Playback/ Audio Recording	●	
QuecLocator®	●	
QuecFile®	●	
(U)SIM Detection	●	
Bluetooth Low Energy	○	
Wi-Fi Scan	○	
Software Features		
Protocols	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS	
Drivers	GNSS (Optional)	Android 4.x–12.x
	RIL	Android 4.x–12.x
	USB RNDIS	Windows 7/ 8/ 8.1/ 10/ 11, Linux 2.6–5.18
	USB ECM	Linux 2.6–5.18
	USB Serial	Windows 7/ 8/ 8.1/ 10/ 11, Linux 2.6–5.18, Android 4.x–12.x
Electrical Features		
Supply Voltage Range	3.3 V–4.3 V, typ. 3.8 V 34 µA @ Power Off 1.7 mA @ LTE Sleep (PF = 128) 1.5 mA @ LTE Sleep (PF = 256) 30 mA @ Idle (PF = 64, USB Connected) 14 mA @ Idle (PF = 64, USB Disconnected)	
Power Consumption (Typ.)		

NOTE:

- \* : In progress.
- : Supported.
- : Optional.