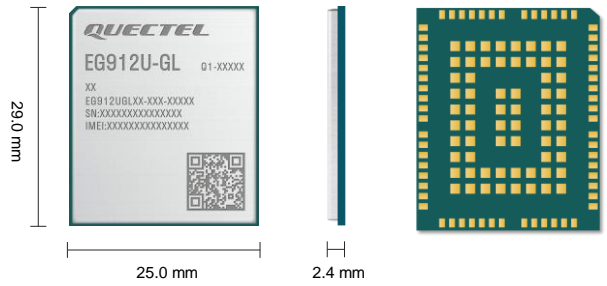


Quectel EG912U-GL

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, EG95 series and EG915U 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 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, smart safety, 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 ^① | Input: × 1 (Microphone) Output: × 1 (Earpiece) | |
| ADC | × 2 | |
| I2C | × 1 | |
| SPI | × 1 | |
| LCM | × 1 (QuecOpen®) | |
| Camera | × 1 (QuecOpen®) | |
| RESET_N | × 1 | |
| PWRKEY | × 1 | |
| Antennas | × 3 (at most), 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–13.x |
| | RIL | Android 4.x–13.x |
| | USB RNDIS | Windows 8/ 8.1/ 10/ 11, Linux 2.6–6.5 |
| | USB ECM | Linux 2.6–6.5 |
| | USB Serial | Windows 8/ 8.1/ 10/ 11, Linux 2.6–6.5, Android 4.x–13.x |
| Electrical Features | | |
| Supply Voltage Range | 3.3 V–4.3 V, typ. 3.8 V | |
| Power Consumption (Typ.) | 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) | |

NOTE:

- ①: In QuecOpen® solution, the module supports an extra headphone interface.
- : Supported.
- : Optional.