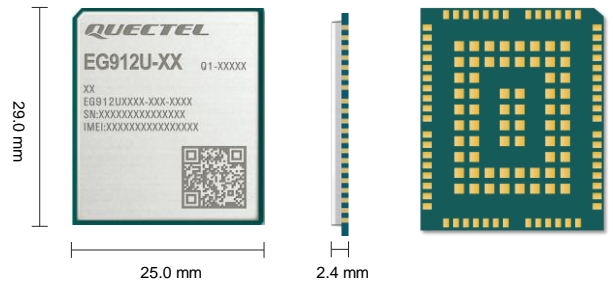


Quectel EG912U-GL

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 EG91 series, EG95 series, BG95 series and BG96 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. Adopting laser engraving process, EG912U-GL features a more fashionable appearance, strong metallic texture, better heat dissipation capability and durable label information, which makes it ideally suited for automation requirement.

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 applicability 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
- ✓ GNSS (Optional)
- ✓ DFOTA
- ✓ Wi-Fi Scan

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

Quectel EG912U-GL

LTE Cat 1	EG912U-GL
Region/ Operator	Global
Dimensions (mm)	29.0 × 25.0 × 2.4
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	Bluetooth 4.2 (BR/ EDR + BLE)
Wi-Fi Scan	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 (Mbps)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)
GSM (kbps)	85.6 (DL)/ 85.6 (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
RESET_N	× 1
PWRKEY	× 1
Antennas	× 3 (Main Antenna, GNSS Antenna (Optional), Wi-Fi Scan/ Bluetooth Antenna)
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/ NITZ/ PING/ FILE/ MQTT/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX/ MMS
	GNSS (Optional) Android 4.x–12.x
	RIL Android 4.x–12.x
Drivers	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
Power Consumption (Typ.)	TBD @ Power off TBD @ LTE Sleep (PF = 128) TBD @ LTE Sleep (PF = 256) TBD @ Idle (PF = 64, USB Connected) TBD @ Idle (PF = 64, USB Disconnect)

NOTE:

- * : under development/ ongoing.
- : supported.