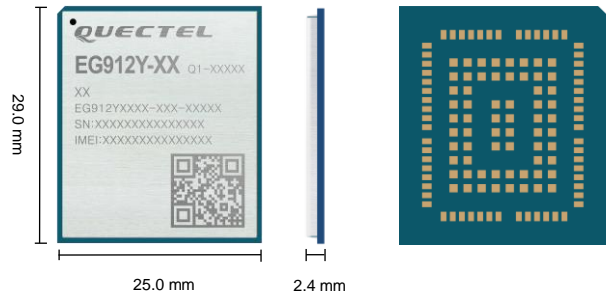


Quectel EG912Y Series

IoT/M2M-optimized LTE Cat 1 Module



Quectel EG912Y is a series of LTE Cat 1 modules optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-9 technology, EG912Y series delivers maximum data rates of 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor, EG912Y series is compatible with Quectel GSM/GPRS module M95, UMTS/HSPA modules UG96, LTE Cat NB2 module BC95-G, LTE Cat M1/Cat NB2/EGPRS module BG95 series, LTE Cat M1/Cat NB1/EGPRS module BG96, LTE Cat 1 module EG91 series and LTE Cat 4 module EG95 series, which allows flexible switch among different networks.

EG912Y series contains two variants: EG912Y-CN and EG912Y-EU, which meet the frequency band coverage of different countries and regions. EG912Y series adopts the laser engraving process to ensure more good-looking appearance, strong metal texture, better heat dissipation, information not easy to be erased, and more suitable for automation requirements.

A rich set of internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 7/8/8.1/10, Linux and Android) help extend the applicability of EG912Y series to a wide range of M2M and IoT applications such as industrial router, industrial PDA, tablet PC, video surveillance, and digital signage.



Key Features

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ Extensive LTE, GSM/GPRS/EDGE coverage
- ✓ Support Delta Firmware Over-the-Air (DFOTA)
- ✓ Super cost-effective
- ✓ LTE multi-mode module in compact size



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



Compact Size



LGA Package



Embedded Abundant
Protocols



DFOTA



Dual SIM*



USB 2.0 High Speed
Interface



VoLTE*



Quectel Enhanced
AT Commands

Quectel EG912Y Series

LTE Cat 1	EG912Y-CN	EG912Y-EU
Region/Operator	China/ India	EMEA/ APAC/ Australia/ New Zealand/ Brazil
Dimensions (mm)	29.0 × 25.0 × 2.4	29.0 × 25.0 × 2.4
Weight	Approx. 3.5 g	Approx. 3.5 g
Package	LGA Package	LGA Package
Temperature Range		
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands		
LTE-FDD	B1/ B3/ B5/ B8	B1/ B3/ B5/ B7/ B8/ B20/ B28
LTE-TDD	B34/ B38/ B39/ B40/ B41	B38/ B40/ B41
GSM	B3/ B8	B2/ B3/ B5/ B8
Certifications		
Regulatory	China: SRRC/ NAL/ CCC	Europe: CE Brazil: Anatel Australia/New Zealand: RCM
Data Transmission		
LTE-FDD Data Rate (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
LTE-TDD Data Rate (Mbps)	7.5 (DL)/ 1 (UL)	7.5 (DL)/ 1 (UL)
GPRS Data Rate (kbps)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)
EDGE Data Rate (kbps)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)
Interfaces		
USB 2.0	× 1	× 1
Digital Audio (PCM)	× 1	× 1
(U)SIM*	× 2	× 2
NET_STATUS	× 1	× 1
SDIO	× 1	× 1
UART	× 2	× 2
ADC	× 2	× 2
SPI	× 1	× 1
RESET_N	× 1	× 1
PWRKEY	× 1	× 1
Antenna	× 1	× 1
I2C	× 1	× 1
USB_BOOT	× 1	× 1
Voice		
Speech Codec Modes	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB
Echo Arithmetic	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression
Audio	Analog Audio/ Digital Audio	Analog Audio/ Digital Audio

Note:

* means under development.

Quectel EG912Y Series

LTE Cat 1	EG912Y-CN	EG912Y-EU
Software Features		
Protocols	Supports TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/PING/CMUX/HTTPS/FTPS/SSL/FILE/MQTT/MMS/SMTP/SMTPTS protocols	Supports TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/PING/CMUX/HTTPS/FTPS/SSL/FILE/MQTT/MMS/SMTP/SMTPTS protocols
USB Serial Driver	Windows 7/8/8.1/10 Linux 2.6–5.12 Android 4.x–11.x	Windows 7/8/8.1/10 Linux 2.6–5.12 Android 4.x–11.x
RIL Driver	Android 4.x–11.x	Android 4.x–11.x
USB RNDIS Driver	Windows 7/8/8.1/10 Linux 2.6–5.12	Windows 7/8/8.1/10 Linux 2.6–5.12
USB ECM Driver	Linux 2.6–5.12	Linux 2.6–5.12
Enhanced Features		
DTMF	●	●
DFOTA	●	●
Audio Playback/ Audio Recording	●	●
QuecLocator®	●	●
QuecFile®	-	●
VoLTE	●	*
(U)SIM Detection	●	●
Electrical Features		
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V	3.4–4.5 V, typ. 3.8 V
Power Consumption	15 μA @Power off Mode 1.1 mA @LTE Sleep Mode (PF = 128) 0.9 mA @LTE Sleep Mode (PF = 256) 12.5 mA @Idle Mode	15 μA @Power off Mode 1.1 mA @LTE Sleep Mode (PF = 128) 0.9 mA @LTE Sleep Mode (PF = 256) 12.5 mA @Idle Mode

Note:

- means supported.
- * means under development

Mouser Electronics

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