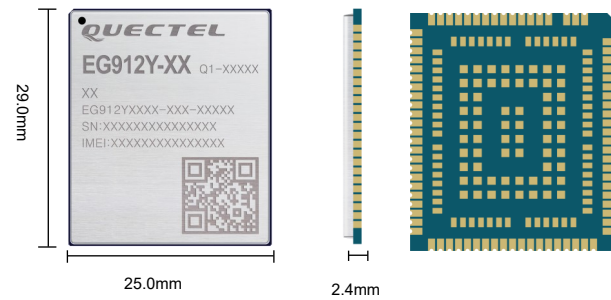




Quectel EG912Y

IoT/M2M-optimized

LTE Cat 1 Module



Quectel EG912Y refers to a series of LTE Cat 1 modules optimized specially for M2M and IoT application. Adopting the 3GPP Rel. 9 LTE technology, EG912Y delivers data rates of 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor, EG912Y is compatible with Quectel multi-mode LTE Standard LTE Cat 1/Cat 4 EG9x, LTE Cat M1/Cat NB1 BG36 and UMTS/HSPA+ UG35/UG96 modules, which allows flexible migration of EG912Y from 3G network to 4G network.

EG912Y undergoes the laser engraving process to ensure better appearance, stronger metal texture and faster heat dissipation, and to ensure that information is less erasable and EG912Y better meets automaton 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 to a wide range of M2M and IoT application such as industrial router, industrial PDA, tablet PC, video surveillance, and digital signage.



Key Benefits

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ Worldwide LTE, GSM/GPRS/EDGE coverage
- ✓ Support Firmware Upgrade Over-The-Air (FOTA) *
- ✓ Rich multimedia hardware interfaces for intelligent applications
- ✓ Super cost-effective



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



Compact Size



LGA Package



Abundant
Protocols-compliant



FOTA*



Wi-Fi*



USB 2.0 High Speed
Interface



USB Drivers

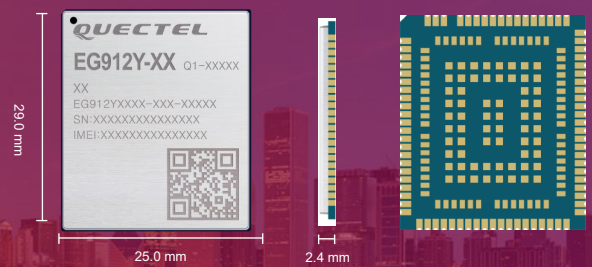


Quectel Enhanced
AT Commands

Rev: V1.0 | Status: Preliminary

Quectel EG912Y

IoT/M2M-optimized LTE Cat 1 Module



Europe/Southeast Asia

EG912Y-EU:

LTE FDD: B1/ B3/ B5/ B7/ B8/ B20/B28

LTE TDD: B38/ B40/ B41

GSM: B2/ B3/ B5/ B8

Data

LTE:

FDD: Max 10 Mbps (DL)/5 Mbps (UL)

TDD: Max 8.96 Mbps (DL)/3.1 Mbps (UL)

GSM:

GPRS: Max 107 Kbps (DL)/85.6 Kbps (UL)

EDGE: Max 296 Kbps (DL)/236.8 Kbps (UL)

Interfaces

USB x 1: USB 2.0 with high speed up to 480 Mbps

SPI (2 bits/4 bits optional) or MIPI CSI Interface

Digital Audio through PCM Interface (optional)

(U)SIM x 2: 1.8V/3.0V (U)SIM Interface, (U)SIM2*

NETLIGHT x 1 :NET_STATUS

UART X 2: Main UART , Debug UART

ADC x 2

SDIO x 1 (for Wi-Fi*)

RESET (active low)

PWRKEY (active low)

Electrical Characteristics

Output Power:

Class 3 (23 dBm±2 dB) for LTE FDD bands

Class 3 (23 dBm±2 dB) for LTE TDD bands

Class E2 (27 dBm±3 dB) for EGSM900 8-PSK

Class E2 (26 dBm±3 dB) for DCS1800 8-PSK

Class 4 (33 dBm±2 dB) for EGSM900

Class 1 (30 dBm±2 dB) for DCS1800

Consumption :

TBD @Power off

TBD @Idle

Sensitivity:

FDD B1: TBD (10 MHz)

FDD B3: TBD (10 MHz)

FDD B5: TBD (10 MHz)

FDD B7: TBD (10 MHz)

FDD B8: TBD (10 MHz)

TDD B20: TBD (10 MHz)

TDD B28: TBD (10 MHz)

EGSM900: TBD

DCS1800: TBD

Software Features

FOTA (Firmware Over-The-Air)*

SDIO Interfaces for Wi-Fi*

General Features

Extended Temperature Range: -40 °C to +85 °C

Dimensions: 25.0 mm × 29.0 mm × 2.4 mm

Package: LGA Package

Weight: TBD

Approvals

CE* (Europe)

* Under Development