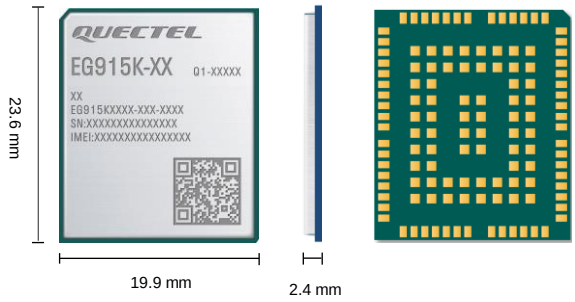
Quectel EG915K-EU

IoT/ M2M-optimized LTE Cat 1bis Module



EG915K-EU is an LTE Cat 1bis wireless communication module specially designed for the M2M and IoT applications. It supports maximum data rates of 10 Mbps downlink and 5 Mbps uplink and has an ultra-high cost performance. At the same time, EG915K-EU is compatible with Quectel LTE Standard EG915N series, EG915U series, EG91 series, EG95 series, LTE Cat M1/ Cat NB2/ EGPRS BG95 series and LTE Cat M1/ Cat NB1/ EGPRS BG96 series modules.

EG915K-EU adopts the laser engraving process to ensure more good-looking appearance, strong metal texture, better heat dissipation, information not easily erased, and more suitable for automation needs.

A rich set of Internet protocols, industry standard interfaces, and abundant functionalities (USB drivers for Windows 10/ 11, Linux and Android) help expand the applicability of EG915K-EU to a wide range of M2M and IoT applications, such as asset management, commercial telematics, payment, RMAC, smart safety and automation and smart metering.

Key Features

- Ultra-small size, designed for M2M and IoT applications, especially for small-size terminals
- Support DFOTA
- Support Wi-Fi Scan
- Super cost-effective

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

LGA Package

Embedded Multiple Network Protocols

USB 2.0
High-speed interface

USB Driver

DFOTA

Quectel Enhanced AT Command

Version: 1.1 | Status: Released

Quectel EG915K-EU

LTE Cat 1bis		EG915K-EU
Region/ Operator		EMEA
Package		LGA
Dimensions (mm)		23.6 × 19.9 × 2.4
Weight (g)		Approx. 2.3
Temperature Range		
Operating Temperature		-35 °C to +75 °C
Extended Temperature		-40 °C to +85 °C
Frequency Bands		
LTE-FDD		B1/ 3/ 5/ 7/ 8/ 20/ 28
LTE-TDD		B38/ 40/ 41
GNSS (Optional)		BDS/ GPS/ GLONASS
Certifications		
Regulatory		**Europe**: CE **Australia/ New Zealand**: RCM
Others		WHQL
Max. Data Rate		
LTE-FDD (Mbps)		10 (DL)/ 5 (UL)
LTE-TDD (Mbps)		8.96 (DL)/ 3.1 (UL)
Interfaces		
(U)SIM		× 1, 1.8/ 3.0 V
UART		× 3 (main UART, debug UART and auxiliary UART①)
USB 2.0		× 1
ADC*		× 2
SPI①		× 1
PWM①		× 3
I2C①		× 1
LCM①		× 1
RESET_N		× 1
PWRKEY		× 1
Bluetooth Antenna①		× 1
Main/ Wi-Fi Scan Antenna		× 1
GNSS Antenna (Optional)		× 1
Enhanced Features		
DFOTA		●
Wi-Fi Scan		●
QuecOpen®*		○
QuecPython®*		○
(U)SIM Detection		●
Software Features		
Protocols Stack		TCP/ UDP/ NTP/ NITZ/ MQTT/ SSL/ PPP/ PING/ FTP/ HTTP/ HTTPS/ FTPS
Drivers	**RIL**	Android 4.x–14.x
	USB RNDIS	Windows 10/ 11 Linux 2.6–6.7
	USB ECM	Linux 2.6–6.7
	USB Serial	Windows 10/ 11 Linux 2.6–6.7 Android 4.x–14.x
Electrical Features		
Power Supply		3.4–4.3 V, typ. 3.8 V
Power Consumption (Typical)		9.64 μA @ Power off 0.90 mA @ LTE-FDD Sleep (PF = 128, USB Disconnected) 0.90 mA @ LTE-TDD Sleep (PF = 128, USB Disconnected) 0.83 mA @ LTE-FDD Sleep (PF = 256, USB Disconnected) 0.82 mA @ LTE-TDD Sleep (PF = 256, USB Disconnected) 10.76 mA @ LTE-FDD Idle (PF = 64, USB Disconnected) 20.74 mA @ LTE-FDD Idle (PF = 64, USB Connected) 10.77 mA @ LTE-TDD Idle (PF = 64, USB Disconnected) 20.76 mA @ LTE-TDD Idle (PF = 64, USB Connected)

NOTE:
1. *: Under development/ In progress.
2. ①: Only supported in QuecOpen® solution.
3. ●: Supported.
4. ○: Optional.

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