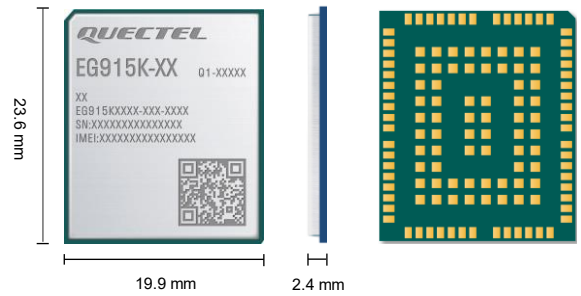


Quectel EG915K Series

IoT/ M2M-optimized LTE Cat 1bis Module



Quectel EG915K is a series of 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 series 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 series contains two variants: EG915K-EU and EG915K-LA. The module 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 series 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
- ✓ Support GNSS (Optional)*
- ✓ 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



GNSS (Optional)

Quectel EG915K Series

LTE Cat 1bis	EG915K-EU	EG915K-LA
Region/ Operator	EMEA	Latin America
Package	LGA	LGA
Dimensions (mm)	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
Weight (g)	Approx. 2.3	Approx. 2.3
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/ 3/ 5/ 7/ 8/ 20/ 28	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
LTE-TDD	B38/ 40/ 41	-
GNSS (Optional)	BDS/ GPS/ GLONASS	BDS/ GPS/ GLONASS/ Galileo
Certifications		
Regulatory/ Conformance	Europe: CE Australia/ New Zealand: RCM	America: FCC* Brazil: Anatel*
Others	WHQL	WHQL
Max. Data Rate		
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)	
Interfaces		
(U)SIM	× 1, 1.8/ 3.0 V	× 1, 1.8/ 3.0 V
UART	× 3 (main UART, debug UART and auxiliary UART ^①)	× 3 (main UART, debug UART and auxiliary UART ^①)
USB 2.0	× 1	× 1
ADC*	× 2	× 2
SPI ^①	× 1	× 1
PWM ^①	× 3	× 3
I2C ^①	× 1	× 1
LCM ^①	× 1	× 1
RESET_N	× 1	× 1
PWRKEY	× 1	× 1
Bluetooth Antenna ^①	× 1	× 1
Main/ Wi-Fi Scan Antenna	× 1	× 1
GNSS Antenna (Optional)	× 1	× 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	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

NOTE:

1. *: Under development/ In progress.

2. ①: Only supported in QuecOpen® solution.

3. ●: Supported.

4. ○: Optional.



Quectel EG915K Series

LTE Cat 1bis	EG915K-EU	EG915K-LA
Electrical Features		
Power Supply	3.4–4.3 V, typ. 3.8 V	3.4–4.3 V, typ. 3.8 V
Power Consumption (Typical)	8.01 μ A @ Power off	5.9 μ A @ Power off
	0.70 mA @ LTE Sleep (PF = 128, USB Disconnected)	0.99 mA @ LTE Sleep (PF = 128, USB Disconnected)
	0.61 mA @ LTE Sleep (PF = 256, USB Disconnected)	0.92 mA @ LTE Sleep (PF = 256, USB Disconnected)
	18.90 mA @ LTE Idle (PF = 64, USB Connected)	18.53 mA @ LTE Idle (PF = 64, USB Connected)
	9.53 mA @ LTE Idle (PF = 64, USB Disconnected)	7.51 mA @ LTE Idle (PF = 64, USB Disconnected)
	16 μ A @ Power off	5.6 μ A @ Power off
	1.40 mA @ LTE Sleep (PF = 128, USB Disconnected)	0.93 mA @ LTE Sleep (PF = 128, USB Disconnected)
	1.29 mA @ LTE Sleep (PF = 256, USB Disconnected)	0.86 mA @ LTE Sleep (PF = 256, USB Disconnected)
	26.90 mA @ LTE Idle (PF = 64, USB Connected)	19.05 mA @ LTE Idle (PF = 64, USB Connected)
	15.45 mA @ LTE Idle (PF = 64, USB Disconnected)	7.84 mA @ LTE Idle (PF = 64, USB Disconnected)