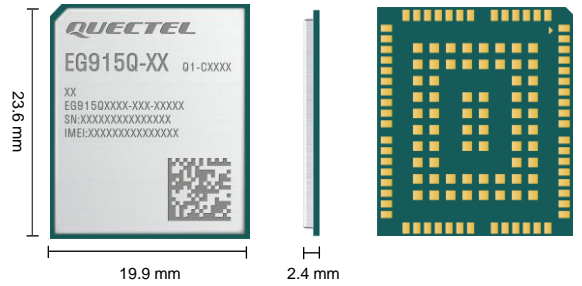


Quectel EG915Q Series

IoT/M2M-optimized LTE Cat 1 bis Module



Quectel EG915Q series is a series of LTE Cat 1 bis modules optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-14 LTE technology, it delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor, EG915Q series is compatible with Quectel LPWA BG95 series/ BG96/ BC95-G modules and LTE Standard EG91/ EG95 series modules.

EG915Q series contains 3 variants: EG915Q-NA, EG915Q-AF and EG915Q-JP. A rich set of internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 8.1/ 10/ 11, Linux, and Android) extend the applicability of the modules to a wide range of M2M and IoT applications, such as asset management, commercial telematics, payment, RMAC (Remote Monitoring and Control applications), smart safety and automation, smart metering and smart grid.



Key Features

- ✓ LTE-FDD coverage
- ✓ Supports DFOTA
- ✓ Main antenna and GNSS antenna(Optional)
- ✓ LTE module in compact size
- ✓ Supports Wi-Fi Scan



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



Compact Size



LGA Package



Embedded Abundant
Protocols



DFOTA



Quectel Enhanced
AT Commands



USB 2.0 High Speed
Interface

Quectel EG915Q Series

LTE Cat 1 bis	EG915Q-NA	EG915Q-AF	EG915Q-JP
Region/ Operator	North America	North America	Japan
Dimensions (mm)	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
Weight (g)	Approx. 2.3	Approx. 2.3	Approx. 2.3
Temperature Range			
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands			
LTE-FDD	B2/ 4/ 5/ 12/ 13/ 66	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B1/ 3/ 8/ 18/ 19/ 26/ 28
GNSS (Optional)	GPS/ GLONASS/ BDS/ Galileo/ QZSS	GPS/ GLONASS/ BDS/ Galileo/ QZSS	GPS/ GLONASS/ BDS/ Galileo/ QZSS
Certifications			
Carrier	America: Verizon/ AT&T/ T-Mobile	America: Verizon*/ AT&T*/ T-Mobile*	Japan: NTT DOCOMO*/ KDDI*/ SoftBank*
Regulatory	Global: GCF North America: PTCRB America: FCC Canada: IC	Global: GCF* North America: PTCRB* America: FCC Canada: IC	Japan: JATE*/TELEC*
Others	WHQL	WHQL	WHQL
Max. Data Rates			
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
Interfaces			
USIM ^①	× 2 (1.8/ 3.0 V)	× 2 (1.8/ 3.0 V)	× 2 (1.8/ 3.0 V)
UART	× 4 (Main, Debug, GNSS ^② and GNSS debug UART ^③)	× 4 (Main, Debug, GNSS ^② and GNSS debug UART ^③)	× 4 (Main, Debug, GNSS ^② and GNSS debug UART ^③)
USB 2.0	× 1	× 1	× 1
RESET_N	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1
PCM (Digital Audio)*	× 1	× 1	× 1
I2C*	× 1	× 1	× 1
SPI*	× 1	× 1	× 1
Camera SPI* ^④	× 1	× 1	× 1
ADC	× 2	× 2	× 2
USB_BOOT	× 1	× 1	× 1
GRFC	× 2	× 2	× 2
Antenna	× 2 (Main and GNSS Antennas ^⑤)	× 2 (Main and GNSS Antennas ^⑤)	× 2 (Main and GNSS Antennas ^⑤)
Software Features			
Protocols	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*
USB Serial Driver	Windows 8.1/ 10/ 11 Linux 2.6–6.7 Android 4.x–13.x	Windows 8.1/ 10/ 11 Linux 2.6–6.7 Android 4.x–13.x	Windows 8.1/ 10/ 11 Linux 2.6–6.7 Android 4.x–13.x
RIL Driver	Android 4.x–13.x	Android 4.x–13.x	Android 4.x–13.x
USB RNDIS Driver	Windows 8.1/ 10/ 11 Linux 2.6–6.7	Windows 8.1/ 10/ 11 Linux 2.6–6.7	Windows 8.1/ 10/ 11 Linux 2.6–6.7
USB ECM Driver	Linux 2.6–6.7	Linux 2.6–6.7	Linux 2.6–6.7
Enhanced Features			
DFOTA	●	●	●
Wi-Fi Scan	●	●	●
USIM Card Detection	●	●	●
Electrical Features			
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	0.4 μA @ Power off Mode 54 μA @ Sleep Mode (AT+CFUN = 0, USB disconnected) 130 μA @ Sleep Mode (AT+CFUN = 4, USB disconnected) 4.55 mA @ Idle Mode (PF = 64, USB disconnected) 25.31 mA @ Idle Mode (PF = 64, USB connected)	0.5 μA @ Power off Mode 61 μA @ Sleep Mode (AT+CFUN = 0, USB disconnected) 139 μA @ Sleep Mode (AT+CFUN = 4, USB disconnected) 4.31 mA @ Idle Mode (PF = 64, USB disconnected) 24.75 mA @ Idle Mode (PF = 64, USB connected)	0.5 μA @ Power off Mode 59 μA @ Sleep Mode (AT+CFUN = 0, USB disconnected) 140 μA @ Sleep Mode (AT+CFUN = 4, USB disconnected) 4.34 mA @ Idle Mode (PF = 64, USB disconnected) 24.77 mA @ Idle Mode (PF = 64, USB connected)

NOTE:

1. ①: Both USIM1 and USIM2 interfaces support 1.8 V USIM cards only, when the USIM2 interface is enabled.

2. ②: Camera SPI and USIM2 are multiplexing pins, so they cannot be used at the same time.

3. ③: GNSS UART, GNSS debug UART and GNSS antenna interfaces are optional.

4. *: Under development/ In progress.

5. ●: Supported.

6. TBD: To be determined.