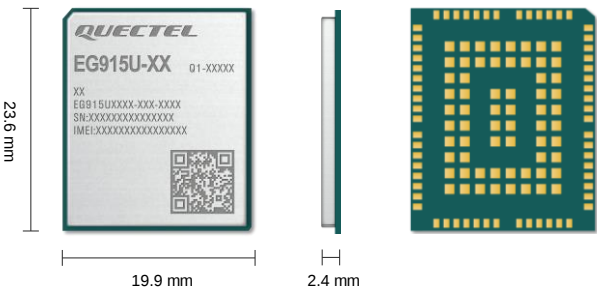


Quectel EG915U Series

IoT/ M2M-optimized
LTE Cat 1 Module



Quectel EG915U is a series of the LTE Cat 1 module optimized specially for M2M and IoT applications. It delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in the compact and unified form factor, EG915U series is compatible with Quectel multi-mode EG91 series, EG95 series, BG95 series and BG96 modules, ensuring that it can easily migrate between 2G and 4G network to meet the needs of different industry applications.

EG915U series contains three variants: EG915U-CN, EG915U-EU and EG915U-LA, covering the frequency band of different countries and regions. Adopting laser engraving process, EG915U series features a more fashionable appearance, strong metallic texture, better heat dissipation capability and durable label information, which makes it ideally suited for automation requirement.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 8.1/ 10/ 11, Linux and Android) extend the applicability of the module to a wide range of M2M and IoT applications such as POS, PoC, ETC, shared equipment, data card, energy control and monitoring, smart safety and industrial PDA.



Key Features

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ Worldwide LTE and GSM/ GPRS coverage
- ✓ Abundant functional interfaces
- ✓ Analog audio
- ✓ Bluetooth (Optional)
- ✓ Wi-Fi Scan (Optional)
- ✓ DFOTA
- ✓ Super cost-effective

 LTE Cat 1 Max. 10 Mbps (DL) Max. 5 Mbps (UL)	 Embedded Abundant Protocols	 LGA Package
 Wi-Fi Scan (Optional)	 Bluetooth (Optional)	 DFOTA
 USB 2.0 High Speed Interface	 USB Driver	 Quectel Enhanced AT Commands

Quectel EG915U Series

LTE Cat 1	EG915U-CN	EG915U-EU	EG915U-LA
Region/ Operator	China/ India	EMEA/ Brazil/ Australia/ New Zealand	Latin America
Dimensions (mm)	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
Temperature Range			
Operating Temperature Range	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature Range	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands			
LTE-FDD	B1/ 3/ 5/ 8	B1/ 3/ 5/ 7/ 8/ 20/ 28	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
LTE-TDD	B34/ 38/ 39/ 40/ 41	-	-
GSM	B3/ 8	B2/ 3/ 5/ 8	B2/ 3/ 5/ 8
Bluetooth (Optional)	Bluetooth 4.2 (LE/ BR/ EDR)	Bluetooth 4.2 (LE/ BR/ EDR)	Bluetooth 4.2 (LE/ BR/ EDR)
Wi-Fi Scan (Optional)	2.4 GHz 802.11b (Rx)	2.4 GHz 802.11b (Rx)	2.4 GHz 802.11b (Rx)
Certifications			
Carrier	-	Europe: Deutsche Telekom South Korea: KT/ LGU+ * Global: GCF Europe: CE Brazil: Anatel South Korea: KC Australia/ New Zealand: RCM	-
Regulatory	China: SRRC/ NAL/ CCC		America: FCC Brazil: Anatel
Others	WHQL	WHQL	WHQL
Max. Data Rates			
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)	-	-
GSM (kbps)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)
Interfaces			
(U)SIM	× 2 (Optional for (U)SIM2)	× 2 (Optional for (U)SIM2)	× 2 (Optional for (U)SIM2)
UART	× 3	× 3	× 3
USB 2.0	× 1	× 1	× 1
Digital Audio (PCM)	× 1	× 1	× 1
Analog Audio①	Input: × 1 (Microphone) Output: × 1 (Earpiece)	Input: × 1 (Microphone) Output: × 1 (Earpiece)	Input: × 1 (Microphone) Output: × 1 (Earpiece)
SPI	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
ADC	× 2	× 2	× 2
I2C	× 1	× 1	× 1
LCM	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
Camera	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
SD Card	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
RESET_N	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1
Antenna	× 2 (at most), Main Antenna, Wi-Fi Scan/ Bluetooth Antenna (Optional)	× 2 (at most), Main Antenna, Wi-Fi Scan/ Bluetooth Antenna (Optional)	× 2 (at most), Main Antenna, Wi-Fi Scan/ Bluetooth Antenna (Optional)
Voice			
Speech Codec Modes (Optional)	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB
VoLTE (Optional)	VoLTE (Voice over LTE)	VoLTE (Voice over LTE)	VoLTE (Voice over LTE)
Enhanced Features			
DTMF	●	●	●
DFOTA	●	●	●
Audio Playback/ Audio Recording	●	●	●
QuecFile®	●	●	●
(U)SIM Detection	●	●	●
Wi-Fi Scan	Optional	Optional	Optional
eSIM	●	●	●
Software Features			
Protocols	TCP/ UDP/ PPP/ NITZ/ PING/ FILE/ MQTT/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX/ MMS/ SMTP/ SMTPS	TCP/ UDP/ PPP/ NITZ/ PING/ FILE/ MQTT/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX/ MMS/ SMTP/ SMTPS	TCP/ UDP/ PPP/ NITZ/ PING/ FILE/ MQTT/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX/ MMS/ SMTP/ SMTPS
Drivers	RIL	Android 4.x–13.x	Android 4.x–13.x
	USB RNDIS	Windows 8.1/ 10/ 11, Linux 2.6–6.7	Windows 8.1/ 10/ 11, Linux 2.6–6.7
	USB ECM	Linux 2.6–6.7	Linux 2.6–6.7
	USB Serial	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
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.)	32 µA @ Power off	32 µA @ Power off	32 µA @ Power off
	1.4 mA @ LTE Sleep (PF = 128)	1.6 mA @ LTE Sleep (PF = 128)	1.5 mA @ LTE Sleep (PF = 128)
	1.2 mA @ LTE Sleep (PF = 256)	1.5 mA @ LTE Sleep (PF = 256)	1.3 mA @ LTE Sleep (PF = 256)
	29 mA @ Idle (PF = 64, USB Connected)	28.1 mA @ Idle (PF = 64, USB Connected)	28.24 mA @ Idle (PF = 64, USB Connected)
	13 mA @ Idle (PF = 64, USB Disconnected)	12.5 mA @ Idle (PF = 64, USB Disconnected)	12.99 mA @ Idle (PF = 64, USB Disconnected)

NOTE:

1. *: In progress.
2. ①: In QuecOpen® solution, the module supports an extra headphone interface.
3. ●: Supported.

