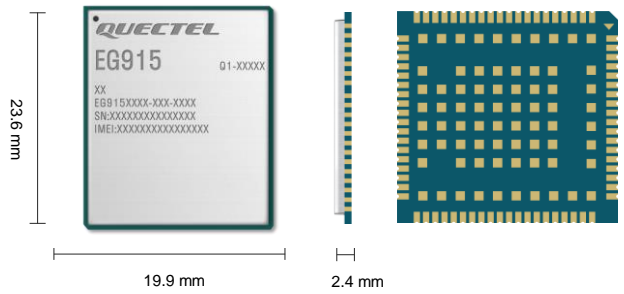


# Quectel EG915U Series

## IoT/M2M-optimized LTE Cat 1 Module



Quectel EG915U is a series of the latest 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 LTE Standard **EG912** and **BG95** modules, ensuring that it can easily migrate from 2G to 4G network to meet the needs of different industry applications.

EG915U series contains three variants: EG915U-EU, EG915U-LA and EG915U-CN, which meet the frequency band coverage 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.

EG915U series has a rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 7/8/8.1/10, Linux, 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, security and protection, and industrial PDA.



## Key Features

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ Worldwide LTE, GSM/GPRS coverage
- ✓ Abundant functional interfaces
- ✓ Support analog audio
- ✓ Bluetooth Optional
- ✓ Wi-Fi Scan Optional
- ✓ Support FOTA
- ✓ Super cost-effective



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



Embedded Abundant  
Protocols



LGA Package



Wi-Fi Scan



Bluetooth



FOTA



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	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	-35 °C ~ +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C ~ +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands			
LTE-FDD	B1/B3/B5/B8	B1/B3/B5/B7/B8/B20/B28	B2/B3/B4/B5/B7/B8/B28/ B66
LTE-TDD	B34/B38/B39/B40/B41	/	/
GSM	B3/B8	B2/B3/B5/B8	B2/B3/B5/B8
Bluetooth	Bluetooth 4.2 (BR/EDR)	Bluetooth 4.2 (BR/EDR)	Bluetooth 4.2 (BR/EDR)
Wi-Fi	2.4 GHz 11b (Rx)	2.4 GHz 11b (Rx)	2.4 GHz 11b (Rx)
Certifications			
Carrier	/	/	/
Regulatory	China: SRRC*/NAL*/CCC*	Europe: CE*/RCM*/GCF*	Latin America: FCC*/Anatel*
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 Audio	× 1 (Audio Input) × 1 (Audio Output)	× 1 (Audio Input) × 1 (Audio Output)	× 1 (Audio Input) × 1 (Audio Output)
SPI	× 1	× 1	× 1
ADC	× 2	× 2	× 2
I2C	× 1	× 1	× 1
RESET	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1
Main Antenna	× 1	× 1	× 1
Wi-Fi Scan/Bluetooth Antenna	× 1	× 1	× 1
Voice			
Speech Codec Modes	AMR-NB (8K)/AMR-WB	AMR-NB (8K)/AMR-WB	AMR-NB (8K)/AMR-WB
VoLTE	VoLTE (Voice over LTE) (Optional)	VoLTE (Voice over LTE) (Optional)	VoLTE (Voice over LTE) (Optional)

# Quectel EG915U Series

LTE Cat 1	EG915U-CN	EG915U-EU	EG915U-LA
<b>Enhanced Features</b>			
DTMF	●	●	●
DFOTA	●	●	●
Audio Playback/ Audio Recording	●	●	●
QuecLocator®	●	●	●
QuecFile®	●	●	●
(U)SIM Detection	●	●	●
Bluetooth Low Energy	○	○	○
Wi-Fi Scan	○	○	○
<b>Software Features</b>			
Protocols	TCP/UDP/PPP/NITZ/PING/FILE/MQTT/NTP/HTTP/HTTPS/SSL/FTP/FTPS/CMUX/MMS	TCP/UDP/PPP/NITZ/PING/FILE/MQTT/NTP/HTTP/HTTPS/SSL/FTP/FTPS/CMUX/MMS	TCP/UDP/PPP/NITZ/PING/FILE/MQTT/NTP/HTTP/HTTPS/SSL/FTP/FTPS/CMUX/MMS
RIL	Android 4.x~11.x	Android 4.x~11.x	Android 4.x~11.x
USB RNDIS	Windows 7/8/8.1/10, Linux 2.6~5.12	Windows 7/8/8.1/10, Linux 2.6~5.12	Windows 7/8/8.1/10, Linux 2.6~5.12
Drivers			
USB ECM	Linux 2.6~5.12	Linux 2.6~5.12	Linux 2.6~5.12
USB Serial	Windows 7/8/8.1/10, Linux 2.6~5.12, Android 4.x~11.x	Windows 7/8/8.1/10, Linux 2.6~5.12, Android 4.x~11.x	Windows 7/8/8.1/10, Linux 2.6~5.12, Android 4.x~11.x
<b>Electrical Features</b>			
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 (Typical)	33 μA @ Power off 1.68 mA @ LTE Sleep (PF = 128) 1.59 mA @ LTE Sleep (PF = 256) 27.78 mA @ Idle (PF = 64, USB Connected) 12.34 mA @ Idle (PF = 64, USB Disconnect)	34 μA @ Power off 1.73 mA @ LTE Sleep (PF = 128) 1.57 mA @ LTE Sleep (PF = 256) 28.38 mA @ Idle (PF = 64, USB Connected) 12.9 mA @ Idle (PF = 64, USB Disconnect)	34 μA @ Power off 1.73 mA @ LTE Sleep (PF = 128) 1.57 mA @ LTE Sleep (PF = 256) 28.38 mA @ Idle (PF = 64, USB Connected) 12.9 mA @ Idle (PF = 64, USB Disconnect)

Notes:

- ①: Only XXX Version is supported.
- \* : means under development/planning.
- : Supported.
- : Optional.