Quectel EG915U Series

IoT/M2M-optimized
LTE Cat 1 Module

23.6 mm

19.9 mm   2.4 mm
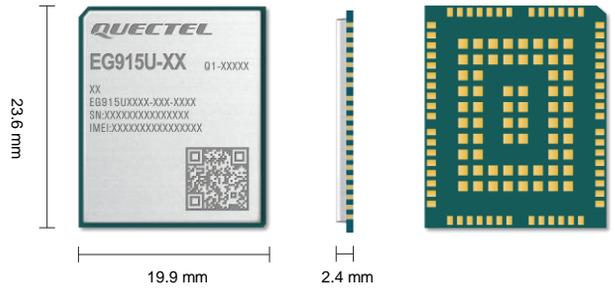
Quectel EG915U is a series of the latest LTE Cat 1 module optimized specially for M2M and IoT applications. It delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in the compact and unified form factor, EG915U series is compatible with Quectel multi-mode EG91 series, EG95 series, 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 7/8/8.1/10, 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, 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
- ✔ Analog audio
- ✔ Bluetooth
- ✔ Wi-Fi Scan
- ✔ DFOTA
- ✔ Super cost-effective

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

Version: 1.0 | Status: Released

Quectel EG915U Series

LTE Cat 1	EG915U-CN	EG915U-EU	EG915U-LA
Region/Operator	China/India	Europe/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/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 802.11b (Rx)	2.4 GHz 802.11b (Rx)	2.4 GHz 802.11b (Rx)
Certifications			
Regulatory	-	**Global:** GCF* **Europe:** CE* **Brazil:** Anatel* **Australia/New Zealand:** RCM*	**America:** FCC* **Brazil:** 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	× 2 (Microphone, Loudspeaker)	× 2 (Microphone, Loudspeaker)	× 2 (Microphone, Loudspeaker)
SPI	× 1	× 1	× 1
ADC	× 2	× 2	× 2
I2C	× 1	× 1	× 1
RESET_N	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1
Antenna	× 2 (Main Antenna, Wi-Fi Scan/Bluetooth Antenna)	× 2 (Main Antenna, Wi-Fi Scan/Bluetooth Antenna)	× 2 (Main Antenna, Wi-Fi Scan/Bluetooth Antenna)
Voice			
Speech Codec Modes	AMR-NB/AMR-WB	AMR-NB/AMR-WB	AMR-NB/AMR-WB
VoLTE	VoLTE (Voice over LTE)	VoLTE (Voice over LTE)	VoLTE (Voice over LTE)
Enhanced Features			
DTMF	●	●	●
DFOTA	●	●	●
Audio Playback/ Audio Recording	●	●	●
QuecLocator®	●	●	●
QuecFile®	●	●	●
(U)SIM Detection	●	●	●
Bluetooth Low Energy	●	●	●
Wi-Fi Scan	●	●	●
Software Features			
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

Drivers		EG915U-CN	EG915U-EU	EG915U-LA
	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 2.6–5.14	Windows 7/8/8.1/10, Linux 2.6–5.14	Windows 7/8/8.1/10, Linux 2.6–5.14
	USB ECM	Linux 2.6–5.14	Linux 2.6–5.14	Linux 2.6–5.14
	USB Serial	Windows 7/8/8.1/10, Linux 2.6–5.14, Android 4.x–11.x	Windows 7/8/8.1/10, Linux 2.6–5.14, Android 4.x–11.x	Windows 7/8/8.1/10, Linux 2.6–5.14, Android 4.x–11.x

Electrical Features	EG915U-CN	EG915U-EU	EG915U-LA
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)

NOTE:

1. *: under development/ongoing.
2. ●: supported.

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