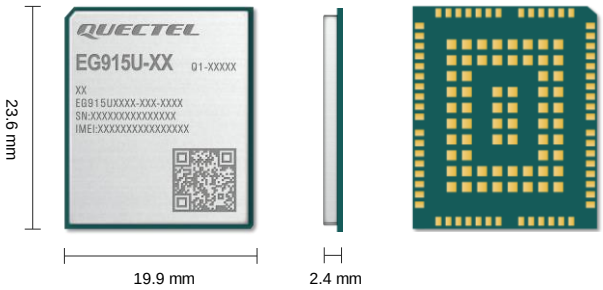
Quectel EG915U Series

IoT/ M2M-optimized LTE Cat 1bis Module



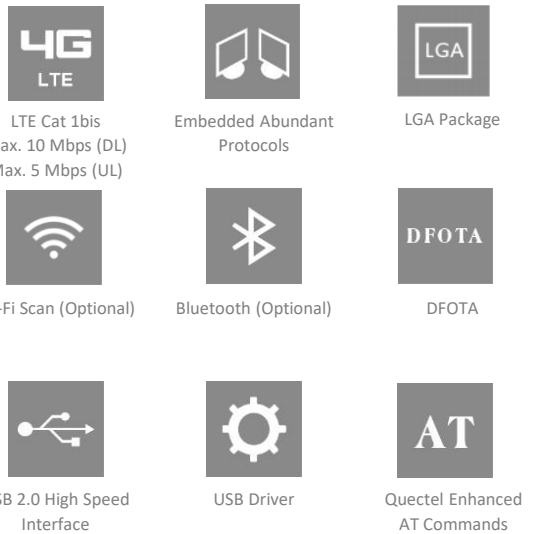
Quectel EG915U is a series of the LTE Cat 1bis module optimized specially for M2M and IoT applications. The module is fully compliant with the 3GPP Rel-13 specification. It delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in the compact and unified form factor, EG915U series 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 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 1bis 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



Quectel EG915U Series

LTE Cat 1bis		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+ *	-
Regulatory		**China:** SRRC/ NAL/ CCC	**Global:** GCF **Europe:** CE **Brazil:** Anatel **South Korea:** KC **Australia/ New Zealand:** RCM	**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 Audio		Input: × 1 (Microphone) Output: × 2 (Earpiece, Headphone)	Input: × 1 (Microphone) Output: × 2 (Earpiece, Headphone)	Input: × 1 (Microphone) Output: × 2 (Earpiece, Headphone)
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		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		●	●	●
Bluetooth		Optional	Optional	Optional
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–14.x	Android 4.x–14.x	Android 4.x–14.x
	USB RNDIS	Windows 10/ 11, Linux 2.6–6.7	Windows 10/ 11, Linux 2.6–6.7	Windows 10/ 11, Linux 2.6–6.7
	USB ECM	Linux 2.6–6.7	Linux 2.6–6.7	Linux 2.6–6.7
	USB Serial	Windows 10/ 11, Linux 2.6–6.7, Android 4.x–14.x	Windows 10/ 11, Linux 2.6–6.7, Android 4.x–14.x	Windows 10/ 11, Linux 2.6–6.7, Android 4.x–14.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 1.4 mA @ LTE Sleep (PF = 128) 1.2 mA @ LTE Sleep (PF = 256) 29 mA @ Idle (PF = 64, USB Connected) 13 mA @ Idle (PF = 64, USB Disconnected)	32 μA @ Power off 1.6 mA @ LTE Sleep (PF = 128) 1.5 mA @ LTE Sleep (PF = 256) 28.1 mA @ Idle (PF = 64, USB Connected) 12.5 mA @ Idle (PF = 64, USB Disconnected)	32 μA @ Power off 1.5 mA @ LTE Sleep (PF = 128) 1.3 mA @ LTE Sleep (PF = 256) 28.24 mA @ Idle (PF = 64, USB Connected) 12.99 mA @ Idle (PF = 64, USB Disconnected)

NOTE:

1. *: In progress.
2. ●: Supported.

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