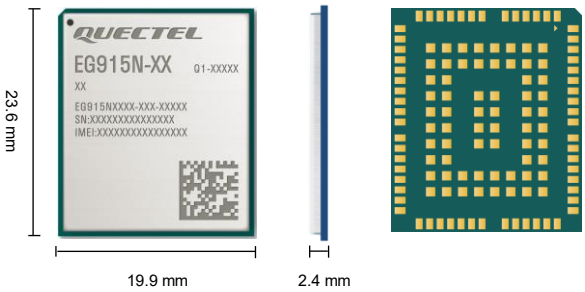


Quectel EG915N Series

IoT/ M2M-optimized LTE Cat 1bis Module



Quectel EG915N is a series of LTE Cat 1bis modules optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-9 LTE technology, it delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. Designed in a compact and unified form factor, EG915N series are compatible with Quectel GSM/ GPRS M95 module, LTE Cat M1/ Cat NB2/ EGPRS BG95 series modules, LTE Cat M1/ Cat NB1/ EGPRS BG96 module, LTE Cat 1 EG91 series modules and LTE Cat 4 EG95 series modules, which allows flexible switch among different networks.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 10/ 11, Linux, Android) extend the applicability of the module to a wide range of M2M and IoT applications such as industrial router, industrial PDA, tablet PC, video transmission, and digital signage.



Key Features

- ✓ LTE Cat 1bis module optimized for M2M and IoT applications
- ✓ Worldwide LTE/ GSM/ GPRS/ EDGE coverage
- ✓ Support DFOTA
- ✓ Super cost-effective
- ✓ LTE multi-mode module in compact size
- ✓ Support Wi-Fi Scan



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



Compact Size



LGA Package



Embedded Abundant
Protocols



DFOTA



Dual SIM



USB 2.0 High Speed
Interface



VoLTE



Quectel Enhanced
AT Commands



Multi-constellation
GNSS

Quectel EG915N Series

LTE Cat 1bis	EG915N-EU	EG915N-LA	EG915N-EA
Region/ Operator	Europe	Latin America	Europe/ Asia
Dimensions (mm)	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
Weight (g)	Approx. 2.46	Approx. 2.46	Approx. 2.46
Package	LGA	LGA	LGA
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	B1/ 3/ 7/ 8/ 20	B1 ^① / B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66	B1/ 3/ 5 ^① / 7/ 8/ 20/ 28
LTE-TDD	-	B40 ^①	B38 ^① / 40 ^① / 41 ^①
GSM	B3/ 8	B2/ 3/ 5/ 8	B3/ 8
GNSS (Optional)	GPS/ GLONASS/ Galileo/ BDS/ QZSS	GPS/ GLONASS/ Galileo/ BDS/ QZSS	GPS/ GLONASS/ Galileo/ BDS/ QZSS
Certifications			
Regulatory/ Conformance	Europe: CE The UK: UKCA Australia/ New Zealand: RCM	America: FCC Brazil: Anatel	Europe: CE Australia/ New Zealand: RCM
Others	WHQL	WHQL	WHQL
Max. Data Rate			
LTE-FDD Data Rate (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
LTE-TDD Data Rate (Mbps)	-	8.96 (DL) / 3.1 (UL)	8.96 (DL) / 3.1 (UL)
GPRS Data Rate (kbps)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)
EDGE Data Rate (kbps)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)
Interfaces			
USB 2.0	× 1	× 1	× 1
Digital Audio (PCM)	× 1	× 1	× 1
(U)SIM	× 2 (Dual SIM Single Standby)	× 2 (Dual SIM Single Standby)	× 2 (Dual SIM Single Standby)
NET_STATUS	× 1	× 1	× 1
UART	× 3 (Main, debug and auxiliary*)	× 3 (Main, debug and auxiliary*)	× 3 (Main, debug and auxiliary*)
ADC	× 2	QuecOpen® solution: × 1	QuecOpen® solution: × 1
RESET_N	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1
I2C	× 1	× 1	× 1
USB_BOOT	× 1	× 1	× 1
Analog Audio	Input: × 1 (Microphone) Output: × 1 (Earpiece)	Input: × 1 (Microphone) Output: × 1 (Earpiece)	Input: × 1 (Microphone) Output: × 1 (Earpiece)
Main Antenna	× 1	× 1	× 1
GNSS Antenna (Optional)	× 1	× 1	× 1
Voice			
Speech Codec Modes	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB
Echo Arithmetic	Echo cancellation/ noise suppression	Echo cancellation/ noise suppression	Echo cancellation/ noise suppression
Audio	Analog audio/ digital audio	Analog audio/ digital audio	Analog audio/ digital audio
Software Features			
Protocols	TCP/ UDP/ PPP/ NTP/ NITZ/ HTTP/ HTTPS/ PING/ CMUX/ SMTP/ SMTPS/ SSL/ FILE/ MQTT/ MMS/ FTP/ FTPS	TCP/ UDP/ PPP/ NTP/ NITZ/ HTTP/ HTTPS/ PING/ CMUX/ SMTP/ SMTPS/ SSL/ FILE/ MQTT/ MMS/ FTP/ FTPS	TCP/ UDP/ PPP/ NTP/ NITZ/ HTTP/ HTTPS/ PING/ CMUX/ SMTP/ SMTPS/ SSL/ FILE/ MQTT/ MMS/ FTP/ FTPS
USB Serial Driver	Windows 10/ 11 Linux 2.6–6.17 Android 4.x–14.x	Windows 10/ 11 Linux 2.6–6.17 Android 4.x–14.x	Windows 10/ 11 Linux 2.6–6.17 Android 4.x–14.x
RIL Driver	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x
USB RNDIS Driver	Windows 10/ 11 Linux 2.6–7.0	Windows 10/ 11 Linux 2.6–7.0	Windows 10/ 11 Linux 2.6–7.0
USB ECM Driver	Linux 2.6–7.0	Linux 2.6–7.0	Linux 2.6–7.0
GNSS Driver	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x

NOTE:
1. *: Under development.
2. ①: The frequency band is optional.

Quectel EG915N Series

LTE Cat 1bis	EG915N-EU	EG915N-LA	EG915N-EA
Enhanced Features			
DTMF	●	-	-
DFOTA	●	●	●
Audio Playback/ Audio Recording	●	○	○
Wi-Fi Scan	●	●	●
VoLTE	●	○	○
(U)SIM Card Detection	●	●	●
Electrical Features			
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V	3.4–4.5 V, typ. 3.8 V	3.4–4.5 V, typ. 3.8 V
Power Consumption (Typical)	Without GNSS	20 µA @ Power off Mode	24.49 µA @ Power off Mode
		1.16 mA @ LTE Sleep Mode (PF = 128, USB disconnected)	1.22 mA @ LTE Sleep Mode (PF = 128, USB disconnected)
		1.09 mA @ LTE Sleep Mode (PF = 256, USB disconnected)	1.10 mA @ LTE Sleep Mode (PF = 256, USB disconnected)
		19.36 mA @ LTE Idle Mode (PF=64, USB disconnected)	16.52 mA @ LTE Idle Mode (PF=64, USB disconnected)
		28.49 mA @ LTE Idle Mode (PF=64, USB connected)	29.39 mA @ LTE Idle Mode (PF=64, USB connected)
		23.01 µA @ Power off Mode	13.13 µA @ Power off Mode
	With GNSS	1.08 mA @ LTE Sleep Mode (PF = 128, USB disconnected)	1.24 mA @ LTE Sleep Mode (PF = 128, USB disconnected)
		0.98 mA @ LTE Sleep Mode (PF = 256, USB disconnected)	1.15 mA @ LTE Sleep Mode (PF = 256, USB disconnected)
		19.87 mA @ LTE Idle Mode (PF = 64, USB disconnected)	1.42 mA @ LTE Idle Mode (PF = 64, USB disconnected)
		29.37 mA @ LTE Idle Mode (PF = 64, USB connected)	26.18 mA @ LTE Idle Mode (PF = 64, USB connected)
		24 µA @ Power off Mode	13.35 µA @ Power off Mode
		1.35 mA @ LTE Sleep Mode (PF = 128, USB disconnected)	1.24 mA @ LTE Sleep Mode (PF = 128, USB disconnected)
		1.25 mA @ LTE Sleep Mode (PF = 256, USB disconnected)	1.15 mA @ LTE Sleep Mode (PF = 256, USB disconnected)
		15.77 mA @ LTE Idle Mode (PF = 64, USB disconnected)	1.42 mA @ LTE Idle Mode (PF = 64, USB disconnected)
		28.03 mA @ LTE Idle Mode (PF = 64, USB connected)	26.18 mA @ LTE Idle Mode (PF = 64, USB connected)

NOTE:

- 1. ●: Supported.
- 2. ○: Optional.