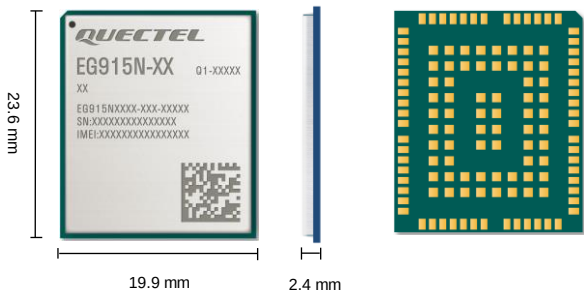
Quectel EG915N Series

IoT/ M2M-optimized
LTE Cat 1 Module



Quectel EG915N is a series of LTE Cat 1 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 7/ 8/ 8.1/ 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 surveillance, and digital signage.

Key Features

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

Compact Size

LGA Package

Embedded Abundant Protocols

DFOTA

Dual (U)SIM

USB 2.0 High Speed Interface

VoLTE

Quectel Enhanced AT Commands

Multi-constellation GNSS

Version: 1.1 | Status: Released

Quectel EG915N Series

LTE Cat 1	EG915N-EU	EG915N-LA
Region/ Operator	Europe	Latin America
Dimensions (mm)	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
Weight (g)	Approx. 2.46	Approx. 2.46 g
Package	LGA Package	LGA Package
Temperature Range		
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands		
LTE-FDD	B1/ 3/ 7/ 8/ 20	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
GSM	B3/ 8	B2/ 3/ 5/ 8
GNSS (Optional)	GPS/ GLONASS/ Galileo/ BDS/ SBAS/ QZSS	GPS/ GLONASS/ Galileo/ BDS/ SBAS/ QZSS
Certifications		
Regulatory	**Europe:** CE **The UK:** UKCA **Australia/ New Zealand:** RCM	**America:** FCC* **Brazil**: Anatel*
Others	WHQL	WHQL
Data Transmission		
LTE-FDD Data Rate (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
GPRS Data Rate (kbps)	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)
Interfaces		
USB 2.0	× 1	× 1
Digital Audio (PCM)	× 1	× 1
(U)SIM	× 2 (Dual SIM Single Standby)	× 2 (Dual SIM Single Standby)
NET_STATUS	× 1	× 1
UART	× 3 (main, debug and auxiliary*)	× 3 (main, debug and auxiliary*)
ADC	× 2	-
RESET_N	× 1	× 1
PWRKEY	× 1	× 1
I2C	× 1	× 1
USB_BOOT	× 1	× 1
Analog Audio Input (× 1) **Analog Audio Output (× 1)**	× 1 (Microphone and Earpiece)	× 1 (Microphone and Earpiece)
Antenna	× 2 (Main Antenna and GNSS Antenna (Optional))	× 2 (Main Antenna and GNSS Antenna (Optional))
Voice		
Speech Codec Modes	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB
Echo Arithmetic	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression
Audio	Analog Audio/ Digital Audio	Analog Audio/ Digital Audio
Software Features		
Protocols	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS
USB Serial Driver	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–5.18 Android 4.x–12.x	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–5.18 Android 4.x–12.x
RIL Driver	Android 4.x–12.x	Android 4.x–12.x
USB RNDIS Driver	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–5.18	Windows 7/ 8/ 8.1/ 10/ 11 Linux 2.6–5.18
USB ECM Driver	Linux 2.6–5.18	Linux 2.6–5.18
GNSS Driver	Android 4.x–12.x	Android 4.x–12.x
Enhanced Features		
DTMF	●	●
DFOTA	●	●
Audio Playback/ Audio Recording	●	●
QuecLocator®	●	●
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
Power Consumption (Typical)	24 μA @ Power off Mode 1.4 mA @ LTE Sleep Mode (PF = 128, USB disconnected) 1.31 mA @ LTE Sleep Mode (PF = 256, USB disconnected) 20.97 mA @ LTE Idle Mode (PF=64, USB disconnected) 30.17 mA @ LTE Idle Mode (PF=64, USB connected)	26 μA @ Power off Mode 1.09 mA @ LTE Sleep Mode (PF = 128, USB disconnected) 0.99 mA @ LTE Sleep Mode (PF = 256, USB disconnected) 16.86 mA @ LTE Idle Mode (PF=64, USB disconnected) 29.06 mA @ LTE Idle Mode (PF=64, USB connected)

NOTE:
1. *: In progress
2. ●: Supported

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