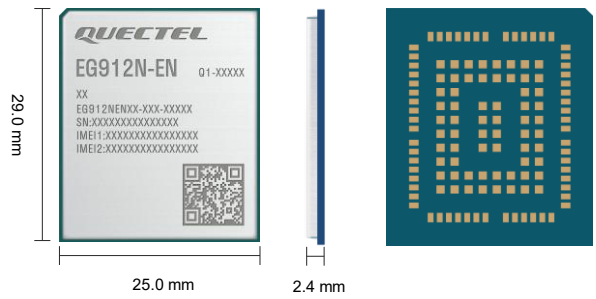


Quectel EG912N-EN

IoT/ M2M-optimized LTE450 Cat 1bis Module



Quectel EG912N-EN is an LTE450 Cat 1bis wireless communication module optimized specially for M2M and IoT applications. It also supports 450 MHz, maximum 10 Mbps downlink rate and 5 Mbps uplink rate. Designed in a compact and unified form factor, EG912N-EN is compatible with Quectel GSM/ GPRS M95 module, LTE Cat M1/ Cat NB2/ EGPRS BG95 series, LTE Cat M1/ Cat NB1/ EGPRS BG96 module, LTE Cat 1 EG91 series and LTE Cat 4 EG95 series, which allows flexible switch among different networks.

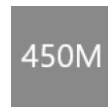
EG912N-EN adopts the laser engraving process to ensure more good-looking appearance, strong metal texture, better heat dissipation, durable label information, which makes it more suitable for automation requirements.

A rich set of internet protocols, industry-standard interfaces and abundant functionalities (USB serial 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 Smart Metering, OTT, IoT Gateway, and smart safety.



Key Features

- ✓ Support 450 MHz
- ✓ LTE Cat 1bis module optimized for M2M and IoT applications
- ✓ Extensive LTE, GSM/ GPRS/ EDGE coverage
- ✓ Support Delta Firmware Over-the-Air (DFOTA)
- ✓ Super cost-effective
- ✓ LTE multi-mode module in compact size



450 MHz



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



Compact Size



LGA Package



Embedded Abundant
Protocols



DFOTA



Dual (U)SIM
Single Standby



USB 2.0 High Speed
Interface



Quectel Enhanced
AT Commands

Quectel EG912N-EN

LTE Cat 1bis	EG912N-EN
Region/ Operator	Europe
Dimensions (mm)	29.0 × 25.0 × 2.4
Weight	Approx. 3.5 g
Package	LGA
Temperature Range	
Operating Temperature	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C
Frequency Bands	
LTE-FDD	B1/ 3/ 5/ 7/ 8/ 20/ 28/ 31/ 72
LTE-TDD	-
GSM/ EDGE	B3/ 8
Certifications	
Regulatory/ Conformance	Europe: CE
Max. Data Transmission	
LTE-FDD Data Rate (Mbps)	10 (DL)/ 5 (UL)
GPRS Data Rate (kbps)	85.6 (DL)/ 85.6 (UL)
EDGE Data Rate (kbps)	236.8 (DL)/ 236.8 (UL)
Interfaces	
USB 2.0	× 1
Digital Audio (PCM)	× 1
Analog Audio	Input: × 1 (Microphone) Output: × 1 (Earpiece)
(U)SIM	× 2
NET_STATUS	× 1
UART	× 2 (Main UART, Debug UART)
ADC	× 2
RESET_N	× 1
PWRKEY	× 1
Antenna	× 1 (Main Antenna)
I2C	× 1
USB_BOOT	× 1
Software Features	
Protocols	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ SSL/ MQTT/ SMTP/ SMTPS/ CMUX/ FTPS/ FILE
USB Serial Driver	Windows 10/ 11 Linux 2.6–6.17 Android 4.x–14.x
RIL Driver	Android 4.x–16.x
USB RNDIS Driver	Windows 10/ 11 Linux 2.6–6.17
USB ECM Driver	Linux 2.6–6.17
Enhanced Features	
450 MHz	●
DTMF	●
DFOTA	●
QuecFile®	-
(U)SIM Detection	●
Electrical Features	
Supply Voltage Range	3.4–4.3 V, typ. 3.8 V
Power Consumption	29 μA @ Power off 1.04 mA @ LTE Sleep (PF = 128) 0.94 mA @ LTE Sleep (PF = 256) 20.04 mA @ Idle (PF = 64, USB disconnected) 29.18 mA @ Idle (PF = 64, USB connected)

NOTE:

●: Supported.