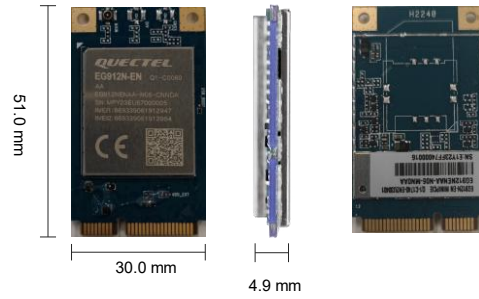




Quectel EG912N-EN Mini PCIe

IoT/ M2M-optimized LTE450 Cat 1bis Module



Quectel EG912N-EN Mini PCIe is an LTE450 Cat 1bis module adopting PCI Express Mini Card form factor. It is optimized specially for M2M and IoT applications, and delivers 10 Mbps downlink and 5 Mbps uplink data rates, super cost-effective. At the same time, it is compatible with Quectel's multi-network standard LTE Cat 4 EC200A series Mini PCIe/ EC25 series Mini PCIe/ EC20 R2.1 Mini PCIe/ EG25-G Mini PCIe module, realizing the seamless switch from 2G network to 4G network. The EG912N-EN Mini PCIe module can be backward compatible with existing EDGE and GSM/ GPRS networks to ensure that it can work normally in remote areas lacking 4G networks.

EG912N-EN Mini PCIe 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 Security.



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



Quectel Enhanced
AT Commands



USB 2.0 High Speed
Interface



Embedded Abundant
Protocols



DFOTA

Quectel EG912N-EN Mini PCIe

LTE Cat 1bis		EG912N-EN Mini PCIe	
Region/ Operator	Europe		
Dimensions (mm)	51.0 × 30.0 × 4.9		
Weight	Approx. 8.5 g		
Package	Mini PCIe Package		
Temperature Range			
Operating Temperature	-35 °C to +75 °C		
Extended Temperature	-40 °C to +80 °C		
Frequency Bands			
LTE-FDD	B1/ B3/ B5/ B7/ B8/ B20/ B28/ B31/ B72		
LTE-TDD	-		
GSM/ EDGE	B3/ B8		
Certifications			
Regulatory/ Conformance	Europe: CE		
Data Transmission			
LTE-FDD Data Rate (Mbps)	Max. 10 (DL)/ Max. 5 (UL)		
GPRS Data Rate (kbps)	Max. 85.6 (DL)/ Max. 85.6 (UL)		
EDGE Data Rate (kbps)	Max. 236.8 (DL)/ Max. 236.8 (UL)		
Interfaces			
USB 2.0	× 1		
Digital Audio (PCM)	× 1		
(U)SIM	× 1		
LED_WWAN#	× 1		
UART	× 1		
PERST#	× 1		
Antenna	× 1 (Main Antenna)		
I2C	× 1		
Software Features			
Protocols	Supports TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ MQTT		
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			
DTMF	●		
DFOTA	●		
QuecLocator®	●		
QuecFile®	-		
(U)SIM Detection	●		
Electrical Features			
Supply Voltage Range	3.0–3.6 V, typ. 3.3 V		
Power Consumption	4.14 mA @ LTE Sleep (AT+CFUN = 0, USB disconnected)		
	4.73 mA @ LTE Sleep (PF = 128)		
	4.57 mA @ LTE Sleep (PF = 256)		
	34.25 mA @ Idle (PF = 64, USB disconnected)		
	40.23 mA @ Idle (PF = 64, USB connected)		

NOTE:

*: In progress.