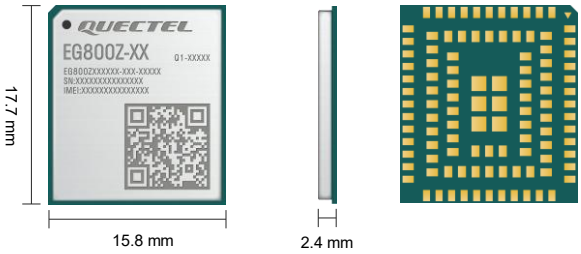
Quectel EG800Z Series

IoT/ M2M-optimized LTE Cat 1 bis Module



Quectel EG800Z series is the LTE Cat 1 bis module optimized specially for M2M and IoT applications. It delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink and it is cost-effective. Designed in the compact and unified form factor, EG800Z series is compatible with Quectel LTE Standard EC800Z-CN, EC800E-CN, EG810M Series, EG800AK Series and EG800G series modules.

EG800Z series covers the frequency bands of different countries and regions. Through laser engraving, EG800Z series features a neat appearance, strong metallic texture, improved heat dissipation, and durable label, which makes it ideal for automation.

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 cloud trumpet, POS, IPC, CPE, data card, two-wheeler, smart safety, and industrial PDA.

Key Features

- Ultra-small size, designed for M2M and IoT applications, especially for small-size terminals
- Support remote DFOTA, reducing later operation and maintenance costs
- Ultra low power
- Support Wi-Fi Scan
- Support Dual SIM Single Standby
- Super cost-effective

4G LTE
Cat 1 bis
Max. 10 Mbps (DL)
Max. 5 Mbps (UL)

LGA
LGA Package

Embedded Abundant Protocols

USB 2.0 High Speed Interface

Rapid Network Access: 2 to 3 seconds

AT
Quectel Enhanced AT Commands

DFOTA
DFOTA

Dual SIM Single Standby

Ultra low power
4 μA@PSM

Version: 1.1 | Status: Released

Quectel EG800Z Series

LTE Cat 1 bis	EG800Z-CN	EG800Z-EU	EG800Z-LA	EG800Z-GL
Region/ Operator	China/ India	Europe/ Southeast Asia	Latin America	Global
Dimensions (mm)	17.7 × 15.8 × 2.4	17.7 × 15.8 × 2.4	17.7 × 15.8 × 2.4	17.7 × 15.8 × 2.4
Temperature Range				
Operating Temperature	-35 °C to +75 °C	-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	-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	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 66/ 71
LTE-TDD	B34/ 38/ 39/ 40/ 41	B38/ 40/ 41	-	B34/ 38/ 39/ 40/ 41
GNSS (Optional) *	GPS/ BDS/ GLONASS/ Galileo	-	-	-
Certifications				
Carrier	**China:** China Mobile/ ChinaTelecom **Korea:** KT/ LGU +/ SKT*	-	-	-
Regulatory/ Conformance	**China:** SRRC/ NAL/ CCC **Korea:** KC	**Europe:** CE **Australia/ New Zealand:** RCM	**America:** FCC **Brazil:** Anatel	**China：** SRRC*/ NAL*/ CCC **Japan：** JATE*/ TELEC* **Korea：** KC* **Europe：** CE* **Australia/ New Zealand：** RCM* **Brazil：** Anatel* **Taiwan：** NCC* **Canada：** IC* **Global：** GCF*
Max. Data Rates				
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)	8.96 (DL)/ 3.1 (UL)	8.96 (DL)/ 3.1 (UL)	8.96 (DL)/ 3.1 (UL)
Interfaces				
USIM①	× 2 (USIM1: 1.8/ 3.0 V; USIM2: 1.8 V)	× 2 (USIM1: 1.8/ 3.0 V; USIM2: 1.8 V)	× 2 (USIM1: 1.8/ 3.0 V; USIM2: 1.8 V)	× 2 (USIM1: 1.8/ 3.0 V; USIM2: 1.8 V)
UART	× 3 (QuecOpen® : x 4)	× 3 (QuecOpen® : x 4)	× 3 (QuecOpen® : x 4)	× 3 (QuecOpen® : x 4)
USB 2.0	× 1	× 1	× 1	× 1
PCM	× 1	× 1	× 1	× 1
LCM	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
Camera	× 1	× 1	× 1	× 1
SPI	× 2 (QuecOpen®)	× 2 (QuecOpen®)	× 2 (QuecOpen®)	× 2 (QuecOpen®)
PWM	× 2 (QuecOpen®: x 5)	× 2 (QuecOpen®: x 5)	× 2 (QuecOpen®: x 5)	× 2 (QuecOpen®: x 5)
NET_STATUS	× 1	× 1	× 1	× 1
CAN	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)	× 1 (QuecOpen®)
ADC	× 2, 12 bits	× 2, 12 bits	× 2, 12 bits	× 2, 12 bits
I2C	× 1 (QuecOpen® : x 2)	× 1 (QuecOpen® : x 2)	× 1 (QuecOpen® : x 2)	× 1 (QuecOpen® : x 2)
LTE/ Wi-Fi Scan antenna	× 1	× 1	× 1	× 1
GNSS antenna*	× 1	-	-	-
Audio				
Speech Codec Modes	MP3/ AMR/ WAV	MP3/ AMR/ WAV	MP3/ AMR/ WAV	MP3/ AMR/ WAV
VoLTE	Digital Audio/ VoLTE (Optional) *	Digital Audio	Digital Audio	Digital Audio

NOTE:
1. *: Under development.
2. ①: If USIM1 and USIM2 interfaces are used simultaneously, ensure that both USIM interfaces use 1.8 V USIM cards.

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Quectel EG800Z Series

LTE Cat 1bis		EG800Z-CN	EG800Z-EU	EG800Z-LA	EG800Z-GL
Enhanced Features					
DTMF*		●	●	●	●
DFOTA		●	●	●	●
Audio Playback/Audio Recording*		○	○	○	○
QuecFile®		●	●	●	●
QuecOpen®		●	●	●	●
QuecPython®		●	●	●	●
USIM Detection		●	●	●	●
Wi-Fi Scan		●	●	●	●
Tuner		●	●	●	●
Software Features					
Protocols		TCP/ UDP/ NITZ/ FILE/ MQTT/ PING/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX*/ MMS*/ PPP*	TCP/ UDP/ NITZ/ FILE/ MQTT/ PING/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX*/ MMS*/ PPP*	TCP/ UDP/ NITZ/ FILE/ MQTT/ PING/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX*/ MMS*/ PPP*	TCP/ UDP/ NITZ/ FILE/ MQTT/ PING/ NTP/ HTTP/ HTTPS/ SSL/ FTP/ FTPS/ CMUX*/ MMS*/ PPP*
Drivers	**RIL**	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x
	RNDIS	Windows 10/ 11, Linux 2.6–6.17	Windows 10/ 11, Linux 2.6–6.17	Windows 10/ 11, Linux 2.6–6.17	Windows 10/ 11, Linux 2.6–6.17
	ECM	Linux 2.6–6.17	Linux 2.6–6.17	Linux 2.6–6.17	Linux 2.6–6.17
	USB Serial	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	Windows 10/ 11, Linux 2.6–6.17, Android 4.x–14.x
Electrical Features					
Supply Voltage Range		3.3 V–4.3 V, typ. 3.8 V	3.3 V–4.3 V, typ. 3.8 V	3.3 V–4.3 V, typ. 3.8 V	3.3 V–4.3 V, typ. 3.8 V
Power Consumption (Typ.)		0.4 µA@ Power Off 4.11 µA@PSM (AT+QSCLK = 3, USB Disconnected) 0.44 mA@ LTE Sleep (PF = 128) 0.34 mA @ LTE Sleep (PF = 256) 4.22 mA@ Idle (PF = 64, USB Disconnected)	0.4 µA@ Power Off 4.11 µA@PSM (AT+QSCLK = 3, USB Disconnected) 0.41 mA@ LTE Sleep (PF = 128) 0.3 mA @ LTE Sleep (PF = 256) 3.15 mA@ Idle (PF = 64, USB Disconnected)	0.4 µA@ Power Off 2.91 µA@PSM (AT+QSCLK = 3, USB Disconnected) 0.36 mA@ LTE Sleep (PF = 128) 0.3 mA @ LTE Sleep (PF = 256) 3.6 mA@ Idle (PF = 64, USB Disconnected)	0.88 µA@ Power Off 3.4 µA@PSM (AT+QSCLK = 3, USB Disconnected) 1.44 mA@ LTE Sleep (PF = 128) 1.07 mA @ LTE Sleep (PF = 256) 6.36 mA@ Idle (PF = 64, USB Disconnected)

NOTE:
1. *: Under development.
2. ●: Supported.
3. ○:Optional.

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