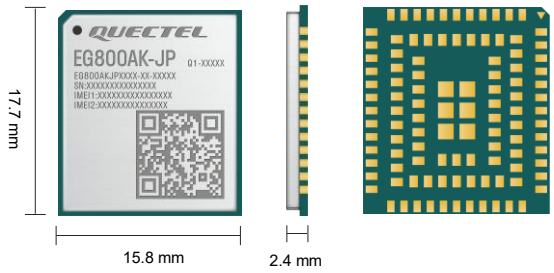
Quectel EG800AK-JP

IoT/ M2M-optimized LTE Cat 1bis Module



This document is only applicable to the EG800AK-JP industrial-grade module.

EG800AK-JP is an LTE Cat 1bis wireless communication module specially designed by Quectel for M2M and IoT applications. It supports maximum data rates of 10 Mbps downlink and 5 Mbps uplink. Designed in the compact and unified form factor, EG800AK-JP is compatible with LTE Standard EC800M-CN, EC800K-CN, EG800K series and EG810M series modules in package.

EG800AK-JP covers the frequency band of different countries and regions. EG800AK-JP adopts the laser engraving process to get a more fashionable appearance, strong metallic texture, better heat dissipation, durable label information, which makes it more suitable for automation requirements.

A rich set of Internet protocols, industry-standard interfaces, a variety of drivers and abundant functionalities (USB serial drivers for Windows 10/ 11, Linux, Android and other operating systems) extend the applicability of the module to a wide range of M2M and IoT applications such as tracker, POS, IPC, data card, smart safety and industrial PDA.

Key Features

- Ultra-small size, designed for M2M and IoT applications, especially for small-size terminals
- Support DFOTA
- Support Wi-Fi Scan (Optional)
- Support Dual SIM Single Standby Single Active*
- Super cost-effective

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

LGA Package

Embedded
Abundant Protocols

USB 2.0 High Speed Interface

USB Drivers

DFOTA

Quectel Enhanced AT Commands

Dual SIM Single Standby Single Active (Optional)

Version: 1.0.0 | Status: Preliminary

Quectel EG800AK-JP

LTE Cat 1bis		EG800AK-JP*
Region/ Operator		Japan
Package		LGA
Dimensions (mm)		17.7 × 15.8 × 2.4
Weight (g)		Approx. 1.35
Temperature Range		
Operating Temperature		-35 °C to +75 °C
Extended Temperature		-40 °C to +85 °C
Frequency Bands		
LTE-FDD		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
Certifications		
Carrier		NTT Docomo*/ SoftBank*/ KDDI*/ Rakuten*
Regulatory/ Conformance		**Japan:** JATE*/ TELEC*
Others		WHQL/ RoHS
Max. Data Rates		
LTE-FDD (Mbps)		10 (DL)/ 5 (UL)
LTE-TDD (Mbps)		8.96 (DL)/ 3.1 (UL)
Interfaces		
USIM①		× 2, 1.8/ 3.0 V
UART		× 3 (main, debug and auxiliary UART②)
USB 2.0		× 1
ADC		× 2
NET_STATUS		× 1
STATUS		× 1
I2C③		× 1 (QuecOpen® solution: × 2)
LCM②		× 1
SPI②		× 1
Matrix Keypad (3× 4)②		× 1
USB_BOOT		× 1
RESET_N		× 1
PWRKEY		× 1
LTE/ Wi-Fi Scan Antenna		× 1
Enhanced Features		
DFOTA		●
Wi-Fi Scan		○
QuecOpen®		●
QuecPython®		●
USIM1 Card Detection		●
Software Features		
Protocols④		TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ FILE/ MQTT
Drivers	**RIL**	Android 4.x–14.x
	USB RNDIS	Windows 10/ 11 Linux 2.6–6.7
	USB ECM	Linux 2.6–6.7
	USB Serial	Windows 10/ 11 Linux 2.6–6.7 Android 4.x–14.x

NOTE:
1. *: Under development/ in progress.
2. ①: USIM2 interface only supports 1.8 V power domain.
3. ②: Only supported in QuecOpen® solution.
4. ③: The interface is under development in standard solution. While in QuecOpen® solution, the interface has been supported.
5. ●: Supported.
6. ○: Optional.
7. ④: PPP, FTP, HTTP, HTTPS, FTPS and FILE protocols are optional.

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