QUECTEL

Quectel EG060W-EA

IoT/ M2M-optimized
LTE-A Cat 6 LGA Module

QUECTEL
EG060W-EA
Q1-AXXXX
XX EG060WEAXX-XXX-XXXXX
SN:XXXXXXXXXXXXXX
IMEI:XXXXXXXXXXXXXX

37.0 mm

39.5 mm   3.0 mm
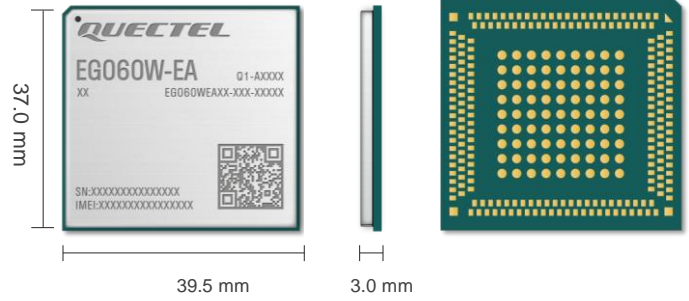
Quectel EG060W-EA is an LTE-A Cat 6 module specially optimized for M2M and IoT applications. Adopting the 3GPP Release 10 LTE technology, it delivers 300 Mbps downlink and 50 Mbps uplink peak data rates. Designed in an LGA form factor, EG060W-EA is compatible with Quectel EG06 series and EG060V-EA module (Cat 6), which facilitates designing and upgrading your own product more rapidly and flexibly.

Equipped with a rich set of internet protocols and multiple integrated application interfaces, EG060W-EA supports a wide range of drivers and software functionalities (e.g., USB drivers for Windows, Linux and Android), all of which make EG060W-EA extensively applied to various M2M and IoT applications such as industrial routers (include MiFi/CPE), home gateways, set-top boxes, PDAs, rugged tablet PCs, video surveillance and digital signage, etc.

◧)) Key Features

✔ LTE-A Cat 6 module with LGA form factor, optimized for M2M and IoT applications

✔ Supports LTE-A carrier aggregation

✔ Worldwide LTE-A and UMTS/DC-HSPA(+) coverage

✔ Feature refinements: supports FOTA and DTMF

✔ MIMO technology meets demands of wireless communication systems on data rate and link reliability

4G LTE
Max. 300 Mbps (DL)
Max. 50 Mbps (UL)

DC-HSDPA
Max. 42 Mbps (DL)
Max. 5.76 Mbps (UL)

LGA
LGA Package

Abundant Embedded Protocols

AT
Quectel Enhanced AT Commands

VoLTE
Voice over LTE

USB 2.0/ 3.0 Interface

USB Drivers

Version: 1.0 | Status: Released

LTE Cat 6	EG060W-EA
Region/Operator	EMEA, APAC[①], Brazil
Dimensions (mm)	37.0 × 39.5 × 3.05
Temperature Range	
Operating Temperature	-20 °C to +70 °C
Weight (g)	8.2
Frequency Bands	
LTE-FDD	B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32[②]
LTE-TDD	B38/ 40/ 41
2CA[⑧]	B1 + B1/ 3/ 5/ 7/ 8/ 20/ 28; B3 + B3/ 5/ 7/ 8/ 20/ 28; B7 + B5/ 7/ 8/ 20/ 28; B20 + B32[③] B38 + B38; B40 + B40; B41 + B41
WCDMA	B1/ 5/ 8
Certifications	
Regulatory	CE/ RCM
Carrier	TBD
Data Rate (Max.)	
LTE-FDD (Mbps)	300 (DL) / 50 (UL)
LTE-TDD (Mbps)	220 (DL) / 30 (UL)
DC-HSPA+ (Mbps)	42 (DL) / 5.76 (UL)
UMTS (kbps)	384 (DL) / 384 (UL)
Interfaces	
(U)SIM (1.8/3.0 V)	× 1
UART	× 2
PCIe	× 2, PCIe Gen 2, for Wi-Fi
SDIO	× 1
I2C	× 1
PCM	× 1, for Digital Audio
SPI	× 1
ADC	× 2
USB2.0/3.0	× 1, support master mode* and slave mode
RGMII	× 1
RESET_N	× 1
Antenna	× 2, main antenna and diversity antenna
Voice	
VoLTE	Digital Audio and VoLTE (Voice over LTE)
Enhanced Features	
MIMO（2 × 2, 4 × 2, DL）	●
eCall	●
DTMF	●
FOTA	●
(U)SIM Detection	●

Note:

1. *: Under development.

2. ●: Supported.

3. ①: Japan and China are not included.

4. ②: Optional. LTE-FDD B32 only supports receiving signal and is only used for secondary component carrier in 2CA.

5. ③: In 2CA, only intra-band contiguous CA is supported while intra-band non-contiguous CA is not supported.

LTE Cat 6		EG060W-EA
Software Features		
Protocols		PPP*/TCP*/UDP*/FTP*/HTTP*/SSL*/HTTPS*/NTP*/PING*/MMS*/SMTPS*/FTPS*/SMTP*
Drivers	**USB to Serial Driver**	Windows 7/8/8.1/10/11 Linux 2.6-5.18 Android 4.x–12.x
	RIL Driver	Android 4.x–10.x
	USB RNDIS Driver	Linux 2.6/3.x/4.x/5.x Windows 7/8/8.1/10
	USB ECM Driver	Linux 2.6/3.x/4.x/5.x
	USB NCM Driver	Linux 2.6/3.x/4.x/5.x
Electrical Features		
Supply Voltage Range		3.3–4.3 V, typ. 3.8 V
Power Consumption (Typical)[①]		56 µA @ Power off 5.42 mA @ Sleep 58.63 mA @ Idle

Note:
1. *: Under development.
2. ①: Estimated data. The real power consumption should be tested.

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