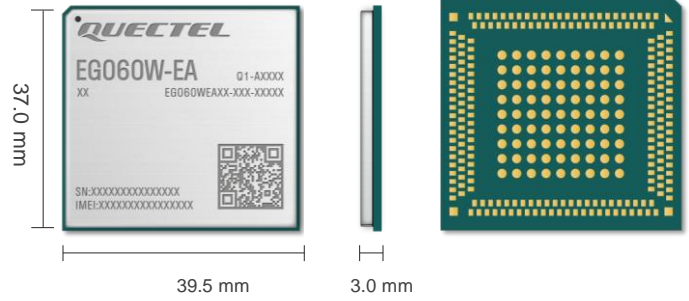




# Quectel EG060W-EA

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



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 transmission 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



Max. 300 Mbps (DL)  
Max. 50 Mbps (UL)



Max. 42 Mbps (DL)  
Max. 5.76 Mbps (UL)



LGA Package



Abundant Embedded  
Protocols



Quectel Enhanced  
AT Commands



Voice over LTE



USB 2.0/ 3.0 Interface



USB Drivers

# Quectel EG060W-EA

LTE Cat 6		EG060W-EA	
Region/Operator	EMEA, APAC <sup>①</sup> , 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 <sup>②</sup>		
LTE-TDD	B38/ 40/ 41		
2CA <sup>③</sup>	B1 + B1/ 3/ 5/ 7/ 8/ 20/ 28; B3 + B3/ 5/ 7/ 8/ 20/ 28; B7 + B5/ 7/ 8/ 20/ 28; B20 + B32 <sup>③</sup> 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:

- \*: Under development.
- : Supported.
- ①: Japan and China are not included.
- ②: Optional. LTE-FDD B32 only supports receiving signal and is only used for secondary component carrier in 2CA.
- ③: In 2CA, only intra-band contiguous CA is supported while intra-band non-contiguous CA is not supported.

# Quectel EG060W-EA

LTE Cat 6		EG060W-EA
<b>Software Features</b>		
<b>Protocols</b>		
		PPP*/TCP*/UDP*/FTP*/HTTP*/SSL*/HTTPS*/NTP*/PING*/MMS*/SMTPS*/FTPS*/SMTP*
<b>Drivers</b>	<b>USB to Serial Driver</b>	Windows 7/8/8.1/10/11 Linux 2.6-5.18 Android 4.x-12.x
	<b>RIL Driver</b>	Android 4.x-10.x
	<b>USB RNDIS Driver</b>	Linux 2.6/3.x/4.x/5.x Windows 7/8/8.1/10
	<b>USB ECM Driver</b>	Linux 2.6/3.x/4.x/5.x
	<b>USB NCM Driver</b>	Linux 2.6/3.x/4.x/5.x
<b>Electrical Features</b>		
<b>Supply Voltage Range</b>		
		3.3-4.3 V, typ. 3.8 V
<b>Power Consumption (Typical)<sup>①</sup></b>		
		56 $\mu$ A @ 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.