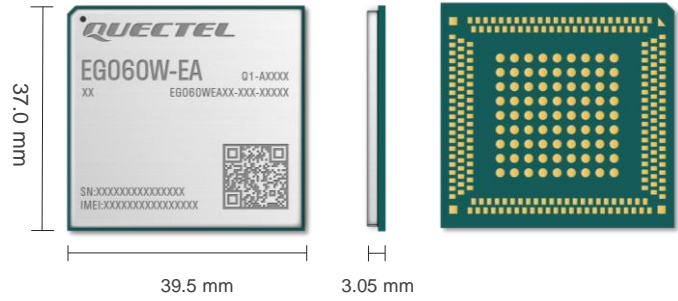




Quectel EG060W-EA

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, 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

Version: 1.2 | Status: Released

Quectel EG060W-EA

| LTE Cat 6 | | EG060W-EA | |
|-----------------------|---|-----------|--|
| Region/Operator | EMEA/ APAC ^① | | |
| Dimensions (mm) | 37.0 × 39.5 × 3.05 | | |
| Weight (g) | 9 | | |
| Temperature Range | | | |
| Operating Temperature | -20 °C to +70 °C | | |
| Extended Temperature | -25 °C to +75 °C | | |
| Frequency Bands | | | |
| LTE-FDD | B1/ 3/ 5/ 7/ 8/ 20/ 28/ 32 ^② | | |
| LTE-TDD | B38/ 40/ 41/ 42 ^④ / 43 ^④ | | |
| 2CA | B1 + B1/ 3/ 5/ 7/ 8/ 20/ 28/ 38/ 40/ 41/ 42 ^④ / 43 ^④ ; B3 + B3/ 5/ 7/ 8/ 20/ 28/ 38/ 40/ 41/ 42 ^④ / 43 ^④ ; B5 + B5/ 7/ 38/ 40/ 41; B7 + B7/ 8/ 20/ 28/ 32 ^② / 42 ^③ ; B8 + B8 ^③ / 32 ^② / 38/ 40/ 41/ 42 ^④ ; B20 + B32 ^② / 38/ 40/ 41/ 42 ^④ / 43 ^④ ; B28 + B28 ^③ / 32 ^② / 38/ 40/ 41/ 42 ^④ ; B38+B38 ^③ ; B40 + B40; B41 + B41; B42 + B42 ^{③④} ; B43 + B43 ^{③④} ; | | |
| WCDMA | B1/ 3/ 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 | | |
| USB 2.0/ 3.0 | × 1, support master mode* and slave mode | | |
| RGMII | × 1 | | |
| RESET_N | × 1 | | |
| Antenna | × 2, main antenna and diversity antenna | | |

- Note:
- *: Under development.
 - : Supported.
 - ①: Japan and China are not included.
 - ②: LTE-FDD B32 only supports receiving signal and is only used for secondary component carrier in 2CA. That is, it can only be used as SCC.
 - ③: Only supports continuous intra-band CA, but not non-continuous intra-band CA.
 - ④: Optional.
 - TBD: To Be Determined.

Quectel EG060W-EA

| LTE Cat 6 | | EG060W-EA |
|-----------------------------|----------------------|--|
| Voice | | |
| VoLTE | | Digital Audio and VoLTE (Voice over LTE) |
| Enhanced Features | | |
| MIMO (2 × 2, 4 × 2, DL) | | ● |
| eCall | | ● |
| DTMF | | ● |
| FOTA | | ● |
| (U)SIM Detection | | ● |
| Software Features | | |
| Protocols | | PPP*/TCP*/UDP*/FTP*/HTTP*/SSL*/HTTPS*/NTP*/PING*/MMS*/SMTPS*/FTPS*/SMTP* |
| Drivers | USB to Serial Driver | Windows 10/11 Linux 2.6-6.7 Android 4.x–14.x |
| | RIL Driver | Android 4.x–14.x |
| | USB RNDIS Driver | Windows 10/ 11 Linux 2.6–6.7 |
| | USB ECM Driver | Linux 2.6–6.7 |
| | USB NCM Driver | Linux 2.6–6.7 |
| Electrical Features | | |
| Supply Voltage Range | | 3.3–4.3 V, typ. 3.8 V |
| Power Consumption (Typical) | | TBD |

Note:

1. *: Under development.
2. TBD: To Be Determined.