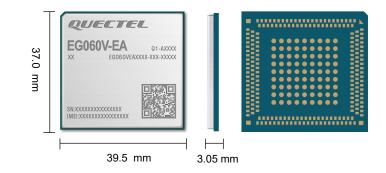


Quectel EG060V-EA

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



Quectel EG060V-EA is an LTE Advanced category 6 module optimized specially for M2M and IoT applications. Having adopted the 3GPP Release 10 LTE technology, it reaches a maximum data rate of up to 300 Mbps downlink and 50 Mbps uplink.

Designed in an LGA form factor, the module is compatible with Quectel Cat 6 module EG06 and Cat 12 module EG12. This compatibility facilitates migration between different categories.

The module's rich Internet protocols, multiple interfaces, and abundant functionalities (USB drivers for Windows 7, Windows 8/8.1, Windows 10, WinCE, Linux and Android) make it widely applicable in the fields of M2M and IoT. The recommended applications are routers (including MiFis), home gateways, set-top boxes, PDAs, tablet PCs, video surveillance, 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/HSPA(+) coverage
- Feature refinements: supports FOTA and DTMF
- MIMO technology meets demands of wireless communication systems on data rate and link reliability





Max 21 Mbps (DL)

Max 5.76 Mbps (UL)



LGA Package

Voice over LTE

LTE Cat 6 Max 300 Mbps (DL) Max 50 Mbps (UL)





Abundant Embedded Protocols

USB 2.0 Interface

Quectel Enhanced AT Commar



Q

USB Drivers

Version: 1.1 | Status: Released

Quectel EG060V-EA

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

For EMEA/APAC^①/Brazil

EG060V-EA

LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 2 × CA²: B1 + B1/B3/B5/B8/B20/B28; B3 + B3/B5/B7/B8⁽³⁾/B20/B28; B7 + B5/B7/B8/B20/B28; B38 + B38; B40 + B40; B41 + B41 WCDMA: B1/B5/B8

Data

ITE:

LTE-FDD: max. 300 Mbps (DL)/max. 50 Mbps (UL) LTE-TDD: max. 220 Mbps (DL)/max. 30 Mbps (UL) UMTS: HSDPA: max. 21 Mbps (DL) HSUPA: max. 5.76 Mbps (UL) WCDMA: max. 384 kbps (DL)/max. 384 kbps (UL)

SMS

Point-to-point MO and MT SMS Cell Broadcast Text and PDU Modes

Interfaces

USB 2.0 × 1: Support Slave and Master* Modes (U)SIM × 1: 1.8/3.0 V GPIO* × 2 LIART × 2 PCle (RC)*×1: PCle Gen 1, for Wi-Fi Function SD Card Interface* × 1 I2C × 1 $PCM \times 1$ SPI × 1 ADC × 2 RESET N: Reset the Module Main and Diversity Antennas

Enhanced Features

MIMO: 2 × 2, 4 × 2, DL eCall: Emergency Service Digital Audio and VoLTE (Voice over LTE) (U)SIM Card Detection DTMF: Dual-tone Multi-frequency FOTA: Firmware Upgrade Over-the-Air Wi-Fi* Function through PCIe Interface

Electrical Characteristics

Output Power:

Class 3 (23 dBm ±2 dB) for LTE-FDD⁽⁴⁾ Class 3 (23 dBm ±2 dB) for LTE-TDD Class 3 (24 dBm +1/-3 dB) for WCDMA Power Consumption: 10 µA @ Power off 3.7 mA @ Sleep (PF = 128) 5.0 mA @ Sleep (PF = 64) 30 mA @ Idle

Software Features

USB Serial Driver: Windows 7/8/8.1/10 WinCE 5.0/6.0/7.0*; Linux 2.6/3.x/4.1-4.14 Android 4.x/5.x/6.x/7.x/8.x USB NCM Driver: Linux 2.6-5.14 RII Driver Android 4.x-10.x USB FCM Driver: Linux 2.6-5.9 **RNDIS Driver:** Windows 7/8/8.1/10 Linux 2.6-5.9 Protocols: PPP/TCP/UDP/FTP/FTPS/HTTP/HTTPS/NTP/PING/ SMTP*/MMS*/SMTPS*/SSL

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General Features

3GPP E-UTRA Release 10 Compliance LGA Package Bandwidth: 1.4/3/5/10/15/20/40 (2 × CA) MHz Supply Voltage Range: 3.3–4.3 V, typ. 3.8 V Operation Temperature Range: -20 °C to +55 °C Extended Temperature Range: -25 °C to +60 °C Dimensions: 39.5 mm × 37.0 mm × 3.05 mm Weight: approx. 6.7 g AT Command: 3GPP TS 27.007 Quectel Enhanced AT Commands

Approvals

Regulatory: CE (Europe) NCC (Taiwan, China) RCM (Australia/New Zealand)

Notes:

1. *: Under Development

- 2. ①: Excluding Japan and China Mobile
- 3. (2): 2 x CA supports continuous intra-band CA, but not non-continuous intra-band CA.
- 4. (3): For CA-3A-8A, "B3 (PCC) + B8 (SCC)" is supported, while "B8 (PCC) + B3 (SCC)" is not.
- 5. ④: For LTE-FDD Band 3, the transmitting power is 21.5 dBm ±1 dB.



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Quectel: EG060VEAAA-M25-CGASA