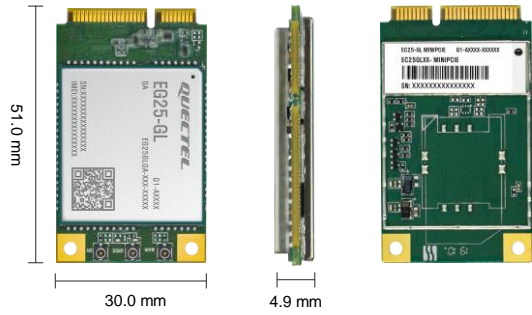




# Quectel EG25-GL Mini PCIe

## IoT/M2M-optimized LTE Cat 4 Module



Quectel EG25-GL Mini PCIe is an LTE Cat 4 module adopting standard PCI Express® Mini Card form factor (Mini PCIe). It is optimized specially for M2M and IoT applications, and delivers maximum data rates up to 150 Mbps downlink and 50 Mbps uplink.

EG25-GL Mini PCIe is backward-compatible with existing EDGE and GSM/GPRS networks, ensuring that it can be connected even in remote areas devoid of 4G or 3G coverage.

EG25-GL Mini PCIe supports Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BDS, Galileo and QZSS). The integrated GNSS greatly simplifies product design, and provides quicker, more accurate and dependable positioning.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 10/11, Linux, Android) extend the applicability of the module to a wide range of M2M applications such as industrial router, industrial PDA, rugged tablet PC, video transmission and digital signage.



### Key Features

- ✓ LTE Cat 4 module optimized for broadband IoT applications
- ✓ Worldwide LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage
- ✓ Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment
- ✓ Standard PCI Express® Mini Card form factor (Mini PCIe) ideal for manufacturers to easily integrate wireless connectivity into their devices
- ✓ MIMO technology meets demands for data rate and link reliability in modem wireless communication systems



LTE Cat 4  
Max. 150 Mbps (DL)  
Max. 50 Mbps (UL)



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



Mini PCIe  
Package



USB Drivers



Quectel Enhanced  
AT Commands



USB 2.0 High Speed  
Interface



Embedded Abundant  
Protocols



Multi-constellation GNSS  
(Optional)

Version: 1.3 | Status: Released

# Quectel EG25-GL Mini PCIe

| LTE Cat 4                      | EG25-GL Mini PCIe  |
|--------------------------------|--|
| Region/Operator                | Global   |
| Dimensions (mm)                | 30.0 × 51.0 × 4.9  |
| Weight (g)                     | Approx. 10.5   |
| <b>Temperature Range</b>       |  |
| Operating Temperature          | -35 °C to +75 °C   |
| Extended Temperature           | -40 °C to +80 °C   |
| <b>Frequency Bands</b>         |  |
| LTE-FDD                        | B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66  |
| LTE-TDD                        | B34/38/39/40/41  |
| WCDMA                          | B1/2/4/5/6/8/19  |
| TD-SCDMA                       | -  |
| GSM/EDGE                       | B2/3/5/8   |
| GNSS (Optional)                | GPS/GLONASS/BDS/Galileo/QZSS   |
| <b>Certifications</b>          |  |
| Carrier                        | <b>America:</b> Verizon/AT&T/T-Mobile<br><b>Canada:</b> Telus<br><b>Australia:</b> Telstra<br><b>New Zealand:</b> Spark  |
| Regulatory                     | <b>Global:</b> GCF<br><b>Europe:</b> CE<br><b>North America:</b> PTCRB<br><b>America:</b> FCC<br><b>The UK:</b> UKCA<br><b>Canada:</b> IC<br><b>Brazil:</b> Anatel<br><b>China:</b> SRRC/NAL/CCC<br><b>South Korea:</b> KC<br><b>Taiwan, China:</b> NCC<br><b>Japan:</b> JATE/TELEC<br><b>Australia/New Zealand:</b> RCM |
| Others                         | WHQL   |
| <b>Max. Data Rates</b>         |  |
| LTE-FDD (Mbps)                 | 150 (DL)/50 (UL)   |
| LTE-TDD (Mbps)                 | 130 (DL)/30 (UL)   |
| DC-HSPA+ (Mbps)                | 42 (DL)/5.76 (UL)  |
| WCDMA (kbps)                   | 384 (DL)/384 (UL)  |
| EDGE (kbps)                    | 296 (DL)/236.8 (UL)  |
| GPRS (kbps)                    | 107 (DL)/85.6 (UL)   |
| <b>Interfaces</b>              |  |
| (U)SIM                         | × 1  |
| UART                           | × 1 (Main UART)  |
| USB 2.0                        | × 1  |
| Digital Audio (PCM)            | × 1  |
| I2C                            | × 1  |
| <b>Voice</b>                   |  |
| Speech Codec Modes             | HR/FR/EFR/AMR/AMR-WB   |
| Echo Arithmetic                | Echo Cancellation/Noise Suppression  |
| VoLTE (Optional)               | Digital Audio and VoLTE (Voice over LTE)   |
| <b>Enhanced Features</b>       |  |
| DTMF                           | ●  |
| DFOTA                          | ●  |
| QMI/RmNet                      | ●  |
| Audio Playback/Audio Recording | Optional   |
| QuecOpen®                      | -  |
| QuecFile®                      | ●  |
| (U)SIM Card Detection          | ●  |

NOTE:

●: Supported.

# Quectel EG25-GL Mini PCIe

| LTE Cat 4                       | EG25-GL Mini PCIe  |
|---------------------------------|--|
| <b>Software Features</b>        |  |
| <b>Protocols</b>                | TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/SMTP/MQTT/CMUX/HTTPS/FTPS/SMTPTS/SSL/MMS/FILE |
| <b>Drivers</b>                  |  |
| <b>USB Serial Driver</b>        | Windows 10/11<br>Linux 2.6–6.7<br>Android 4.x–14.x                                   |
| <b>GNSS Driver</b>              | Android 4.x–14.x   |
| <b>RIL Driver</b>               | Android 4.x–14.x   |
| <b>USB NDIS Driver</b>          | Windows 10/11  |
| <b>USB GobiNet Driver</b>       | Linux 2.6–6.7  |
| <b>USB QMI_WWAN Driver</b>      | Linux 3.4–6.7  |
| <b>Electrical Features</b>      |  |
| <b>Supply Voltage Range</b>     | 3.0–3.6 V, typ. 3.3 V  |
| <b>Power Consumption (Typ.)</b> | 2.9 mA @ Sleep<br>23 mA @ Idle   |