

## Product highlights

SIM card support  
 Global  
 Support PCI Express mini card standard interface  
 Supports maximum downlink rate of 150Mbps and maximum uplink rate of 50Mbps  
 Support for MIMO  
 The built-in multi constellation GNSS receiver can meet the requirements of fast and accurate positioning under different environmental conditions



## Fanconn

# EG25-G Mini PCIe SIM

## Key Benefits

- LTE category 4 module optimized for broadband IoT applications
- Worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage
- 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
- Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment



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



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



Mini PCIe  
 Package



Embedded Abundant  
 Protocols



eCall\*



Multi-constellation  
 GNSS



USB 2.0 High Speed  
 Interface



USB Drivers



Quectel Enhanced  
 AT Commands

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

EG25-G 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-G Mini PCIe supports Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BeiDou, 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 7/8/8.1/10, Linux, Android/eCall\*) extend the applicability of the module to a wide range of M2M applications such as industrial router, industrial PDA, rugged tablet PC, video surveillance and digital signage, etc.

specifications	
Frequency band	LTE-TDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8
Data	<b>LTE:</b> LTE-FDD: Max150Mbps (DL)/50Mbps (UL) LTE-TDD: Max130Mbps (DL)/30Mbps (UL) <b>UMTS:</b> DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) <b>GSM:</b> EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)
Software Features	<b>USB Serial Driver:</b> Windows 7/8/8.1/10, Windows CE 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 <b>RIL Driver:</b> Android 4.x/5.x/6.x/7.x/8.x <b>NDIS Driver:</b> Windows 7/8/8.1/10 <b>ECM Driver*:</b> Linux 2.6/3.x/4.1~4.14 <b>Gobinet Driver:</b> Linux 2.6/3.x/4.1~4.14 <b>QMI_WWAN Driver:</b> 3.x (3.4 or later)/4.1~4.14 <b>Protocols:</b> TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/ SMTP/CMUX*/HTTPS*/MMS*/FTPS*/SMTPS*/ SSL*/FILE*
General Features	Temperature Range: -40°C ~ +80°C Dimensions: 50.0mm x 30.0mm x 4.9mm Weight: Approx. 9.8g Mini PCIe Package Supply Voltage: 3.0V~3.6V, 3.3V Typ. 3GPP E-UTRA Release 11 Bandwidth: 1.4/3/5/10/15/20MHz 3GPP TS27.007 and Enhanced AT Commands
Consumption:	3.6mA @Sleep, Typ. 35mA @Idle
Interfaces	USB x 1: USB 2.0 with High Speed up to 480Mbps PCM x 1: Digital Audio through PCM (Optional) (U)SIM x 1: 1.8V/3.0V (U)SIM Interface UART x 1: Main UART LED_WWAN# for Network Status Indication W_DISABLE# for Disabling RF Function PERST# for Module Resetting Solder pads for Main Antenna, Rx-diversity and GNSS Antennas
Enhanced Features	eCall* DTMF* (U)SIM Card Detection (U)SIM Card Connector Support MIMO in DL Direction DFOTA*: Delta Firmware Upgrade Over-The-Air GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS (Optional)
Antennas	IPEX 1
SIM	Nano SIM

\* Under Development

# Interface

