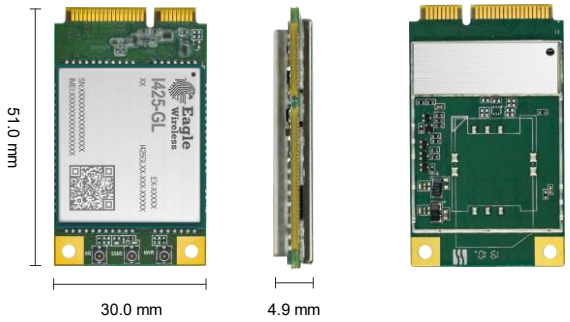
# Eagle
# I425 Series Mini PCIe

## IoT/M2M-optimized
## LTE Cat 4 Module




I425 series 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.

I425 series 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.

I425 series Mini PCIe supports Qualcomm® IZatTM 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 and IoT applications, such as smart metering, wearable devices, environmental monitoring, asset tracking, fleet management, smart safety and alarm systems.

## 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

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

3G HSPA+
Max. 42 Mbps (DL)
Max. 5.76 Mbps (UL)

LGA
LGA Package

Embedded Abundant Protocols

USB Drivers

AT
Enhanced AT Commands

USB 2.0 High Speed Interface

Multi-constellation GNSS (optional)

# Eagle I425 Series Mini PCIe

| LTE Cat 4 | I425-GLGA Mini PCIe | I425-GLGD Mini PCIe |
|---|---|---|
| **Region/Operator** | Global | Global |
| **Dimensions (mm)** | 30.0 × 51.0 × 4.9 | 30.0 × 51.0 × 4.9 |
| **Weight (g)** | Approx. 10.5 | Approx. 10.5 |
| **Temperature Range** | | |
| **Operating Temperature** | -35 °C to +75 °C | -35 °C to +75 °C |
| **Extended Temperature** | -40 °C to +80 °C | -40 °C to +80 °C |
| **Frequency Bands** | | |
| **LTE-FDD** | B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 | B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 |
| **LTE-TDD** | B34/38/39/40/41 | B34/38/39/40/41 |
| **WCDMA** | B1/2/4/5/6/8/19 | B1/2/4/5/6/8/19 |
| **TD-SCDMA** | - | - |
| **GSM/EDGE** | B2/3/5/8 | B2/3/5/8 |
| **GNSS (Optional)** | GPS/GLONASS/BDS/Galileo/QZSS | GPS/GLONASS/BDS/Galileo/QZSS |
| **Certifications** | | |
| **Carrier** | **America**: AT&T*/Verizon* | **America**: AT&T*/Verizon*/T-Mobile* |
| **Regulatory** | **Global**: GCF*<br>**North America**: PTCRB*<br>**America**: FCC*<br>**Canada**: IC* | **Global**: GCF*<br>**North America**: PTCRB*<br>**America**: FCC*<br>**Canada**: IC* |
| **Others** | WHQL*/RoHS* | WHQL*/RoHS* |
| **Max. Data Rates** | | |
| **LTE-FDD (Mbps)** | 150 (DL)/50 (UL) | 150 (DL)/50 (UL) |
| **LTE-TDD (Mbps)** | 130 (DL)/30 (UL) | 130 (DL)/30 (UL) |
| **DC-HSPA+ (Mbps)** | 42 (DL)/5.76 (UL) | 42 (DL)/5.76 (UL) |
| **WCDMA (kbps)** | 384 (DL)/384 (UL) | 384 (DL)/384 (UL) |
| **EDGE (kbps)** | 296 (DL)/236.8 (UL) | 296 (DL)/236.8 (UL) |
| **GPRS (kbps)** | 107 (DL)/85.6 (UL) | 107 (DL)/85.6 (UL) |
| **Interfaces** | | |
| **(U)SIM** | × 1 | × 1 |
| **UART** | × 1 (Main UART) | × 1 (Main UART) |
| **USB 2.0** | × 1 | × 1 |
| **Digital Audio (PCM)** | × 1 | - |
| **I2C** | × 1 | × 1 |
| **Voice** | | |
| **Speech Codec Modes** | HR/FR/EFR/AMR/AMR-WB | - |
| **Echo Arithmetic** | Echo Cancellation/Noise Suppression | - |
| **VoLTE** | Digital Audio and VoLTE (Voice over LTE) | - |
| **Enhanced Features** | | |
| **DTMF** | ● | - |
| **DFOTA** | ● | ● |
| **QMI/RmNet** | ● | ● |
| **Audio Playback/ Audio Recording** | ● | - |
| **(U)SIM Card Detection** | ● | ● |

Notes:
●: Supported
*: Planned
-: Not supported

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# Eagle I425 Series Mini PCIe

| LTE Cat 4 | I425-GLGA Mini PCIe | I425-GLGD Mini PCIe |
|---|---|---|
| **Software Features** | | |
| **Protocols** | TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/SMTP/MQTT/CMUX/HTTPS/FTPS/SMTPS/SSL/MMS/FILE | TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/SMTP/MQTT/CMUX/HTTPS/FTPS/SMTPS/SSL/MMS/FILE |
| **Drivers** | | |
| **USB Serial Driver** | **Windows** 10/11<br>**Linux** 2.6–6.7<br>**Android** 4.x–14.x | **Windows** 10/11<br>**Linux** 2.6–6.7<br>**Android** 4.x–14.x |
| **GNSS Driver** | **Android** 4.x–14.x | **Android** 4.x–14.x |
| **RIL Driver** | **Android** 4.x–14.x | **Android** 4.x–14.x |
| **USB NDIS Driver** | **Windows** 10/11 | **Windows** 10/11 |
| **USB GobiNet Driver** | **Linux** 2.6–6.7 | **Linux** 2.6–6.7 |
| **USB QMI_WWAN Driver** | **Linux** 3.4–6.7 | **Linux** 3.4–6.7 |
| **Electrical Features** | | |
| **Supply Voltage Range** | 3.0–3.6 V, typ. 3.3 V | 3.0–3.6 V, typ. 3.3 V |
| **Power Consumption** | 2.8 mA @ Sleep<br>22 mA @ Idle | 2.8 mA @ Sleep<br>22 mA @ Idle |

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