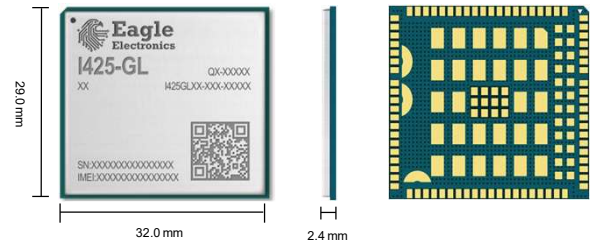


Eagle I425-GL

IoT/M2M-optimized LTE Cat 4 Module



Eagle I425-GL is an LTE Cat 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel.11 LTE technology, it delivers maximum data rates up to 150 Mbps downlink and 50 Mbps uplink. Designed in the compact and unified form factor, I425-GL is compatible with Eagle I421-GL and I42x-AF modules, which allows for flexible migration among them in design and use as well as a series of Quectel EC/EG2x modules.

I425-GL 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. It has two variants: I425-GLGA and I425-GLGD. The difference is the latter is data only and does not support any voice capabilities.

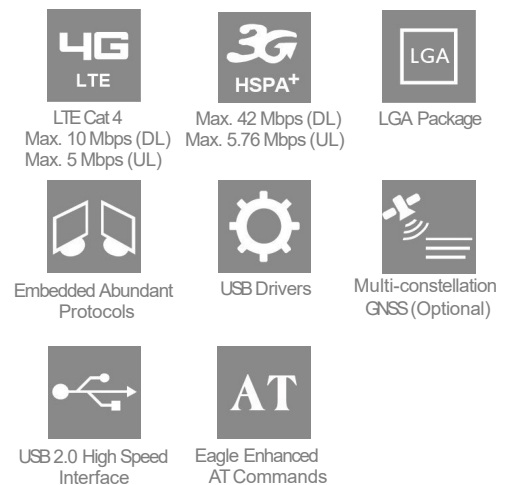
I425-GL supports Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BDS, Galileo and QZSS). The integrated GNSS greatly simplifies product design, and provides quicker, more accurate and more dependable positioning.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10/11, Linux, Android) extend the applicability of the module to a wide range of M2M and IoT applications such as industrial router, industrial PDA, rugged tablet PC, video transmission, and digital signage.



Key Features

- ✓ LTE Cat 4 module optimized for M2M and 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
- ✓ Feature refinements: supports DFOTA and DTMF
- ✓ MIMO technology meets demands for data rate and link reliability in modem wireless communication system



Eagle I425-GL

LTE Cat 4	I425-GLGA	I425-GLGD (Data Only)
Region/Operator	Global	Global
Dimensions (mm)	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4
Weight (g)	Approx. 4.9	Approx. 4.9
Temperature Range		
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °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: Verizon/AT&T/T-Mobile Global: GCF Europe: CE North America: PTCRB America: FCC The UK: UKCA	America: Verizon/AT&T/T-Mobile Global: GCF Europe: CE North America: PTCRB America: FCC The UK: UKCA
Regulatory	Canada: IC Brazil: Anatel China: SRRC/NAL/CCC Taiwan, China: NCC Japan: JATE/TELEC Australia/New Zealand: RCM	Canada: IC Brazil: Anatel China: SRRC/NAL/CCC Taiwan, China: NCC Japan: JATE/TELEC Australia/New Zealand: RCM
Others	RoHS/WHQL	RoHS/WHQL
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	× 2	× 2
UART	× 2 (Main & Debug UART)	× 2 (Main & Debug UART)
USB 2.0	× 1	× 1
SDIO	× 1	× 1
Digital Audio (PCM)	× 1	× 1
ADC	× 2	× 2
Voice		
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB	-
Echo Arithmetic	Echo Cancellation/Noise Suppression	-
VoLTE (Optional)	Digital Audio and VoLTE (Voice over LTE)	-
Enhanced Features		
DTMF	●	-
DFOTA	●	●
QMI/RmNet	●	●
Audio Playback/Audio Recording	Optional	-
QuecOpen®	-	-
QuecFile®	●	●
(U)SIM Card Detection	●	●

Eagle I425-GL

LTE Cat 4	I425-GLGA	I425-GLGD (Data Only)
Software Features		
Protocols	TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/S MTP/MQTT/CMUX/HTTPS/FTPS/SMTSPS/SSL/M MS/FILE	TCP/UDP/PPP/FTP/HTTP/NTP/PING/QMI/NITZ/S MTP/MQTT/CMUX/HTTPS/FTPS/SMTSPS/SSL/M MS/FILE
Drivers		
USB Serial Driver	Windows 8/8.1/10/11 Linux 2.6–6.5 Android 4.x–13.x	Windows 8/8.1/10/11 Linux 2.6–6.5 Android 4.x–13.x
GNSS Driver	Android 4.x–13.x	Android 4.x–13.x
RIL Driver	Android 4.x–13.x	Android 4.x–13.x
USB NDIS Driver	Windows 8/8.1/10/11	Windows 8/8.1/10/11
USB GobiNet Driver	Linux 2.6–6.5	Linux 2.6–6.5
USB QMI_WWAN Driver	Linux 3.4–6.5	Linux 3.4–6.5
Electrical Features		
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	7 μ A @ Power off 1.3 mA @ Sleep 15.7 mA @ Idle	7 μ A @ Power off 1.3 mA @ Sleep 15.7 mA @ Idle