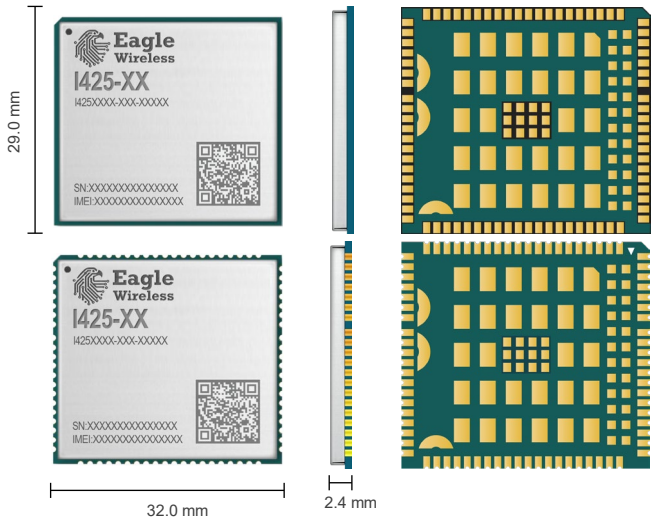
Eagle I425 Series

IoT/M2M-optimized LTE Cat 4 Module



I425 is a series of LTE Cat 4 modules 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.

I425 series 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 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 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 refinement: supports DFOTA
- MIMO technology meets demands for data rate and link reliability in wireless communication systems

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

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

Multi-constellation GNSS (optional)

Embedded Abundant Protocols

USB Drivers

AT
Enhanced AT Commands

USB 2.0 High Speed Interface

Eagle I425 Series

LTE Cat 4	I425-GLGA	I425-GLGD	I425-AFX	I425-AFXD
Region/Operator	Global	Global	North America	North America
Dimensions (mm)	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4
Form Factor	LGA	LGA	LCC	LCC
Weight (g)	Approx. 4.9	Approx. 4.9	Approx. 4.9	Approx. 4.9
Temperature Range				
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-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	B2/4/5/12/13/14/66/71	B2/4/5/12/13/14/66/71
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	B2/4/5	B2/4/5
TD-SCDMA	-	-	-	-
GSM/EDGE	B2/3/5/8	B2/3/5/8	-	-
GNSS (Optional)	GPS/GLONASS/BDS/Galileo/QZSS	GPS/GLONASS/BDS/Galileo/QZSS	GPS/GLONASS/BDS/Galileo/QZSS	GPS/GLONASS/BDS/Galileo/QZSS
Certifications				
Carrier	**America**: AT&T/Verizon	**America**: AT&T/Verizon/T-Mobile	**America:** AT&T/Verizon	**America:** AT&T/Verizon/T-Mobile
Regulatory/Conformance	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC	**Global:** GCF **North America:** PTCRB **America:** FCC **Canada:** IC	**Global:** GCF **North America:** PTCRB **America:** FCC **Canada:** IC
Max. Data Rates				
LTE-FDD (Mbps)	150 (DL)/50 (UL)	150 (DL)/50 (UL)	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)	42 (DL)/ 5.76 (UL)	42 (DL)/ 5.76 (UL)
WCDMA (kbps)	384 (DL)/384 (UL)	384 (DL)/384 (UL)	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	× 2	× 2
UART	× 2 (Main & Debug UART)	× 2 (Main & Debug UART)	× 2 (Main & Debug UART)	× 2 (Main & Debug UART)
USB 2.0	× 1	× 1	× 1	× 1
SDIO	× 1	× 1	× 1	× 1
Digital Audio (PCM)	× 1	-	× 1	-
I2C	× 1	× 1	× 1	× 1
ADC	× 2	× 2	× 2	× 2
SGMII	-	-	× 1	× 1
GRFC	× 2	× 2	× 2	× 2
Voice				
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB	-	AMR/AMR-WB	-
Echo Arithmetic	Echo Cancellation/Noise Suppression	-	Echo Cancellation/Noise Suppression	-
VoLTE	Digital Audio and VoLTE (Voice over LTE)	-	Digital Audio and VoLTE (Voice over LTE)	-

NOTE:
1. *: Under development / In progress.
2. - : Not supported.

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Eagle I425 Series

LTE Cat 4	I425-GLGA	I425-GLGD	I425-AFX	I425-AFXD
Enhanced Features				
DTMF	●	-	●	-
DFOTA	●	●	●	●
QMI/RmNet	●	●	●	●
Audio Playback/ Audio Recording	●	-	●	-
(U)SIM Card Detection	●	●	●	●
SMS	●	●	●	●
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	TCP/UDP/PPP/FTP/FTPS/ HTTP/HTTPS/NTP/PING/ QMI/NITZ/SMTP/SSL/ MQTT/FILE/CMUX/SMTPS/ MMS	TCP/UDP/PPP/FTP/FTPS/ HTTP/HTTPS/NTP/PING/ QMI/NITZ/SMTP/SSL/ MQTT/FILE/CMUX/SMTPS/ MMS
Drivers				
USB Serial Driver	**Windows** 10/11 **Linux** 2.6–6.7 **Android** 4.x–14.x	**Windows** 10/11 **Linux** 2.6–6.7 **Android** 4.x–14.x	**Windows** 10/11 **Linux** 2.6–6.7 **Android** 4.x–14.x	**Windows** 10/11 **Linux** 2.6–6.7 **Android** 4.x–14.x
GNSS Driver	**Android** 4.x–14.x	**Android** 4.x–14.x	**Android** 4.x–14.x	**Android** 4.x–14.x
RIL Driver	**Android** 4.x–14.x	**Android** 4.x–14.x	**Android** 4.x–14.x	**Android** 4.x–14.x
USB NDIS Driver	**Windows** 10/11	**Windows** 10/11	**Windows** 10/11	**Windows** 10/11
USB QMI_WWAN Driver	**Linux** 3.4–6.7	**Linux** 3.4–6.7	**Linux** 3.4–6.7	**Linux** 3.4–6.7
USB MBIM Driver	**Windows** 10/11 **Linux** 3.18–6.7	**Windows** 10/11 **Linux** 3.18–6.7	**Windows** 10/11 **Linux** 3.18–6.7	**Windows** 10/11 **Linux** 3.18–6.7
Electrical Features				
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V
Power Consumption	6.59 µA @ Power off 1.16 mA @ Sleep 15.74 mA @ Idle	6.59 µA @ Power off 1.16 mA @ Sleep 15.74 mA @ Idle	8.0 µA @ Power off 0.83 mA @ Sleep 14.9 mA @ Idle	8.0 µA @ Power off 0.83 mA @ Sleep 14.9 mA @ Idle

NOTE:
1. ● : Supported.
2. - : Not supported.

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Eagle Wireless

Eagle I425 Series

LTE Cat 4	I425-J*	I425-AF*	I425-AFDL (Data-only)*
Region/Operator	Japan	North America	North America
Dimensions (mm)	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4
Temperature Range			
Operating Temperature	-35 °C to +75 °C	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands			
LTE-FDD	B1/3/8/18/19/26	B2/4/5/12/13/14/66/71	B2/4/5/12/13/14/66/71
LTE-TDD	B41	-	-
WCDMA	-	B2/4/5	-
GSM/EDGE	-	-	-
GNSS (Optional)	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS	GPS/GLONASS/BDS/ Galileo/QZSS
Certifications			
Carrier*	**Japan:** NTT DOCOMO/ SoftBank/KDDI/Rakuten[1]	**America:** Verizon/AT&T/ T-Mobile/U.S. Cellular **Canada:** Rogers/Telus	**America:** Verizon/AT&T/ T-Mobile/U.S. Cellular **Canada:** Rogers/Telus
Regulatory/Conformance*	**Japan:** JATE/TELEC	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC	**Global:** GCF **North America:** PTCRB **America:** FCC **Canada:** IC
Others	RoHS/ WHQL	RoHS/ WHQL	RoHS/ WHQL
Max. Data Rates			
LTE-FDD (Mbps)	150 (DL)/50 (UL)	150 (DL)/50 (UL)	150 (DL)/50 (UL)
LTE-TDD (Mbps)	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)	-	-	-
GPRS (kbps)	-	-	-
Interfaces			
(U)SIM	× 1	× 1	× 1
UART	× 2 (Main & Debug UART)	× 2 (Main & Debug UART)	× 2 (Main & Debug UART)
USB 2.0	× 1	× 1	× 1
Digital Audio (PCM)	× 1	× 1	× 1
I2C	× 1	× 1	× 1
SDIO	× 2	× 2	× 2
SGMII	× 1	× 1	× 1
Wi-Fi	× 1	× 1	× 1
Bluetooth	× 1	× 1	× 1
ADC	× 2	× 2	× 2
GRFC (Optional)	× 2	× 2	× 2
Voice			
Speech Codec Modes	AMR/AMR-WB	AMR/AMR-WB	-
Echo Arithmetic	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression	-
VoLTE	Digital Audio and VoLTE (Voice over LTE)	Digital Audio and VoLTE (Voice over LTE)	-

NOTE:
*: Planning.
- : Not supported.
1: Support Data only.

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Eagle I425 Series

LTE Cat 4	I425-J*	I425-AF*	I425-AFDL (Data-only)*
***Enhanced Features**			
DTMF	●	●	-
DFOTA	●	●	●
QMI/RmNet	●	●	●
Audio Playback/ Audio Recording	Optional	Optional	Optional
(U)SIM Card Detection	●	●	●
SMS	●	●	●
eSIM	-	-	-
Drivers			
USB Serial Driver	Windows 10/11 Linux 2.6–6.17 Android 4.x–14.x	Windows 10/11 Linux 2.6–6.17 Android 4.x–14.x	Windows 10/11 Linux 2.6–6.17 Android 4.x–14.x
GNSS Driver	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x
RIL Driver	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x
USB NDIS Driver	Windows 10/11	Windows 10/11	Windows 10/11
USB MBIM Driver	Windows 10/11 Linux 4.4–6.17	Windows 10/11 Linux 4.4–6.17	Windows 10/11 Linux 4.4–6.17
USB GobiNet Driver	Linux 2.6-3.4	Linux 2.6–3.4	Linux 2.6–3.4
USB QMI_WWAN Driver	Linux 3.4–6.7	Linux 3.4–6.7	Linux 3.4–6.7
Electrical Features			
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V	3.3–4.3 V, typ. 3.8 V
Power Consumption	10 µA @ Power off 1.1 mA @ Sleep 21 mA @ Idle	10 µA @ Power off 1.0 mA @ Sleep 23.3 mA @ Idle	7 µA @ Power off 0.81 mA @ Sleep 19.7 mA @ Idle

NOTE:
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*: Planning

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