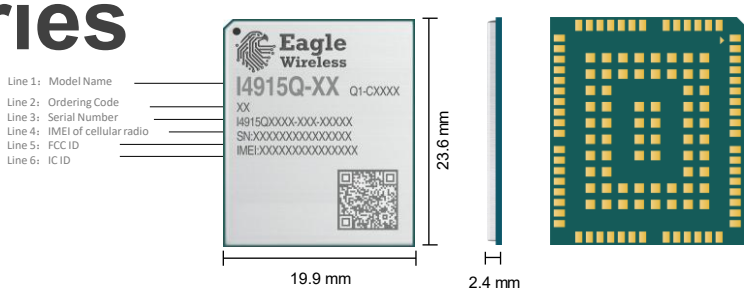
Eagle I4915Q Series

IoT/ M2M-optimized LTE Cat 1bis Module



Eagle I4915Q is a series of LTE Cat 1bis modules optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-14 LTE technology, it delivers maximum data rates up to 10 Mbps downlink and 5 Mbps uplink. It is designed in a compact and unified form factor.

I4915Q series contains 4 variants: I4915Q-NA, I4915Q-AF, I4915Q-JP, and I4915Q-NAD. A rich set of internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 10/ 11, Linux, and Android) extend the applicability of the modules to a wide range of M2M and IoT applications, such as asset management, commercial telematics, payment, RMAC (Remote Monitoring and Control applications), smart safety and automation, smart metering and smart grid.

Key Features

- LTE-FDD coverage
- Supports DFOTA
- Main antenna and GNSS antenna (Optional)
- LTE module in compact size
- Supports Wi-Fi Scan

LTE Cat 1bis
Max. 10 Mbps (DL)
Max. 5 Mbps (UL)

Compact Size

LGA Package

Embedded Abundant Protocols

DFOTA

USB 2.0 High Speed Interface

Eagle I4915Q Series

LTE Cat 1bis	I4915Q-NA	I4915Q-AF	I4915Q-JP	I4915Q-NAD*
Region/ Operator	North America	North America	Japan	North America
Dimensions (mm)	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4	23.6 × 19.9 × 2.4
Weight (g)	Approx. 2.3	Approx. 2.3	Approx. 2.3	Approx. 2.3
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	B2/ 4/ 5/ 12/ 13/ 66	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B1/ 3/ 8/ 18/ 19/ 26/ 28	B2/ 4/ 5/ 12/ 13/ 25/ 66/ 71
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**: Verizon/ AT&T/ T-Mobile/ Bell	**America**: Verizon/ AT&T/ T-Mobile	**Japan:** NTT DOCOMO*/ KDDI*/ SoftBank*/ Rakuten*	**America**: Verizon*/ T-Mobile*
Regulatory/ Conformance	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC	**Japan:** JATE*/TELEC*	**Global:** GCF* **North America**: PTCRB* **America**: FCC* **Canada**: IC*
Others	WHQL	WHQL	WHQL*	WHQL*
Max. Data Rates				
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
Interfaces				
USIM①	× 2 (1.8/ 3.0 V)	× 2 (1.8/ 3.0 V)	× 2 (1.8/ 3.0 V)	× 2 (1.8/ 3.0 V)
UART	× 4 (Main, Debug, GNSS③ and GNSS debug UART③)	× 4 (Main, Debug, GNSS③ and GNSS debug UART③)	× 4 (Main, Debug, GNSS③ and GNSS debug UART③)	× 4 (Main, Debug, GNSS③ and GNSS debug UART③)
USB 2.0	× 1	× 1	× 1	× 1
RESET_N	× 1	× 1	× 1	× 1
PWRKEY	× 1	× 1	× 1	× 1
PCM (Digital Audio)*	× 1	× 1	× 1	× 1
I2C*	× 1	× 1	× 1	× 1
SPI*	× 1	× 1	× 1	× 1
Camera SPI*②	× 1	× 1	× 1	× 1
ADC	× 2	× 2	× 2	× 2
USB_BOOT	× 1	× 1	× 1	× 1
GRFC	× 2	× 2	× 2	× 2
Antenna	× 2 (Main and GNSS Antennas③)	× 2 (Main and GNSS Antennas③)	× 2 (Main and GNSS Antennas③)	× 2 (Main and GNSS Antennas③)
Software Features				
Protocols	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*
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	Windows 10/ 11 Linux 2.6–6.17 Android 4.x–14.x
RIL Driver	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x	Android 4.x–16.x
USB RNDIS Driver	Windows 10/ 11 Linux 2.6–6.17	Windows 10/ 11 Linux 2.6–6.17	Windows 10/ 11 Linux 2.6–6.17	Windows 10/ 11 Linux 2.6–6.17
USB ECM Driver	Linux 2.6–6.17	Linux 2.6–6.17	Linux 2.6–6.17	Linux 2.6–6.17
Enhanced Features				
DFOTA	●	●	●	●
Wi-Fi Scan	●	●	●	●
USIM Card Detection	●	●	●	●

NOTE:
1. ① : When the USIM2 interface is enabled, both USIM1 and USIM2 interfaces support 1.8 V USIM cards only.
2. ② : Camera SPI and USIM2 are multiplexing pins, so they cannot be used at the same time.
3. ③ : GNSS UART, GNSS Debug UART and GNSS antenna interfaces are optional.
4. *: Planning.
5. ●: Supported.

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