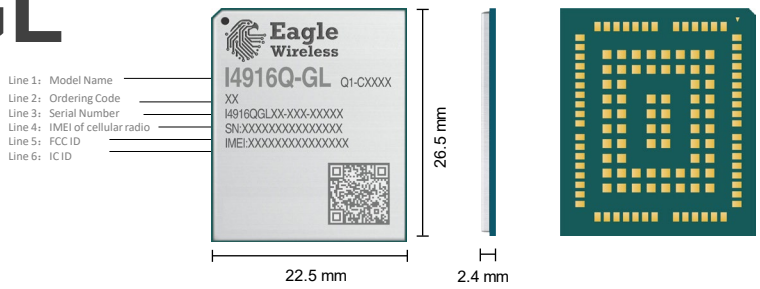
Eagle I4916Q-GL

IoT/ M2M-optimized LTE Cat 1bis Module



Eagle I4916Q-GL is an LTE Cat 1bis module 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.

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 module 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 network 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

EMAIL US: info@eaglewireless.com VISIT US: www.eaglewireless.com

Eagle I4916Q-GL

LTE Cat 1bis	I4916Q-GL
Region/ Operator	Global
Dimensions (mm)	26.5 × 22.5 × 2.4
Weight (g)	Approx. 2.9
Temperature Range	
Normal Operating Temperature	-35 °C to +75 °C
Extended Operating Temperature	-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
LTE-TDD	B34/ 38/ 39/ 40/ 41
GNSS (Optional)	GPS/ GLONASS/ BDS/ Galileo/ QZSS
Certifications	
Carrier	**America**: Verizon/ AT&T/ T-Mobile **Canada**: Bell*
Regulatory/ Conformance	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC
Others	WHQL/ RoHS
Max. Data Rates	
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)
LTE-TDD (Mbps)	8.96 (DL)/ 3.1 (UL)
Interfaces	
USIM①	× 2 (1.8/ 3.0 V)
UART	× 4 (Main, Debug, GNSS③ and GNSS debug UART③)
USB 2.0	× 1
RESET_N	× 1
PWRKEY	× 1
Digital Audio (PCM)*	× 1
I2C*	× 1
Camera SPI*②	× 1
ADC	× 2
USB_BOOT	× 1
GRFC	× 2
Main/ Wi-Fi Scan Antenna	× 1
GNSS Antenna③	× 1
Software Features	
Protocols	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*
USB Serial Driver	Windows 10/ 11 Linux 2.6–6.7 Android 4.x–14.x
RIL Driver	Android 4.x–14.x
USB RNDIS Driver	Windows 10/ 11 Linux 2.6–6.7
USB ECM Driver	Linux 2.6–6.7
Enhanced Features	
DFOTA	●
Wi-Fi Scan	●
USIM1 Card Detection	●
Electrical Features	
Supply Voltage Range	3.3–4.3 V, typ. 3.8 V
Power Consumption (Typ.)	0.5 μA @ Power Off 54 μA @ Sleep Mode (**AT+CFUN=0**, USB Disconnected) 0.135 mA @ Sleep Mode (**AT+CFUN=4**, USB Disconnected) 4.5 mA @ Idle Mode (PF = 64, USB Disconnected) 25.8 mA @ Idle Mode (PF = 64, USB Connected)

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. * : Under development.
5. ●: Supported.

1974 E. 66th St., Suite 200-B Cleveland, OH 44103 USA
Email: info@eaglewireless.com

http://www.eaglewireless.com

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