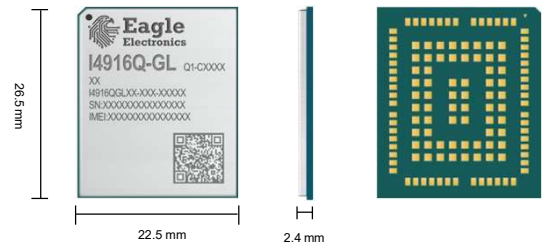


# Eagle I4916Q

IoT/M2M-optimized  
LTE Cat 1.bis Module



Eagle I4916Q is an LTE Cat 1 bis 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. Designed in a compact and unified form factor, I4916Q is compatible with Eagle LPWA I490 series modules, LTE Standard I491 series modules, and I4915Q series of modules.

A rich set of internet protocols, industry standard interfaces and abundant functionalities (USB serial drivers for Windows 8.1/ 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 network coverage
- ✓ Supports DFOTA
- ✓ Main antenna and GNSS antenna (Optional)
- ✓ LTE module in compact size
- ✓ Supports Wi-Fi Scan



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



Compact Size



LGA Package



Embedded Abundant  
Protocols



DFOTA



Enhanced AT  
Commands



USB 2.0 High Speed  
Interface

# Eagle I4916Q

LTE Cat 1 bis		I4915Q-GL	
Region/Operator	Global		
Dimensions (mm)	26.5 x 22.5 x 2.4		
Weight (g)	Approx. 2.9		
<b>Temperature Range</b>			
Operating Temperature	-35 °C to +75 °C		
Extended Temperature	-40 °C to +85 °C		
<b>Frequency Bands</b>			
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		
<b>Certifications</b>			
Carrier	America: Verizon/AT&T/T-Mobile*		
Regulatory	Global:	GCF	UK: UKCA*
	North America:	PTCRB	Brazil: Anatel
	America:	FCC	China: SRRC*/ NAL*/ CCC
	Canada:	IC	Korea: KC
	Japan:	JATE/ TELEC	Australia/ New Zealand: RCM
Others	WHQL	WHQL	
<b>Max. Data Rates</b>			
LTE (Mbps)	FDD: 10 (DL)/ 5 (UL)	TDD: 8.96 (DL)/ 3.1 (UL)	
<b>Interfaces</b>			
(U)SIM <sup>①</sup>	× 2 (1.8/ 3.0 V)	× 2 (1.8/ 3.0 V)	
UART	× 4 (Main, Debug, GNSS and GNSS debug UART)	× 4 (Main, Debug, GNSS and GNSS debug UART)	
USB 2.0	× 1	× 1	
REST_N	× 1	× 1	
PWRKEY	× 1	× 1	
PCM (Digital Audio)*	× 1	× 1	
I2C*	× 1	× 1	
SPI*	× 1	× 1	
Camera SPI* <sup>②</sup>	× 1	× 1	
ADC	× 2	× 2	
USB_BOOT	× 1	× 1	
GRFC	× 2	× 2	
Antenna <sup>③</sup>	× 2 (Main and GNSS Antennas <sup>③</sup> )	× 2 (Main and GNSS Antennas <sup>③</sup> )	
<b>Software Features</b>			
Protocols	TCP/ UDP/ NTP/ NITZ/ FTP/ HTTP/ PING/ HTTPS/ FTPS/ SSL/ MQTT/ CMUX/ PPP/ FILE/ SMTP/ SMTPS/ MMS*		
USB Serial Driver	Windows 8.1/10/11 Linux 2.6-6.7 Android 4.x-13.x		
RIL Driver	Android 4.x-13.x		
USB RNDIS Driver	Windows 8.1/10/11 Linux 2.6-6.7		
USB ECM Driver	Linux 2.6-6.7		
<b>Enhanced Features</b>			
DFOTA	●		
Wi-Fi Scan	●		
USIM Card Detection	●		
<b>Electrical Features</b>			
Supply Voltage Range	3.3-4.3 V, typ. 3.8V		
Power Consumption (Typ.)	0.4 μA @ Power off Mode		
	54 μA @ Sleep Mode (AT+CFUN = 0, USB disconnected)		
	135 μA @ Sleep Mode (AT+CFUN = 4, USB disconnected)		
	4.55 mA @ Idle Mode (PF = 64, USB disconnected)		
	25.8 mA @ Idle Mode (PF = 64, USB connected)		

NOTE:

- ① : Both USIM1 and USIM2 interfaces support 1.8 V USIM cards only, when the USIM2 interface is enabled.
  - ② : Camera SPI and USIM2 are multiplexing pins, so they cannot be used at the same time.
  - ③ : GNSS UART, GNSS debug UART and GNSS antenna interfaces are optional.
  - \*: Under development/ In progress
- : supported.