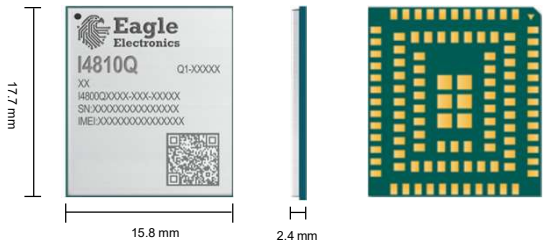
Eagle I4810Q

IoT/M2M-optimized LTE Cat 1.bis Module



Eagle I4810Q series is a series of LTE Cat 1 bis 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 form factor.

I4810Q series contains 2 variants: I4810Q-NA and I4810Q-AF. 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 Cat 1 bis module optimized for M2M and IoT Applications
- 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

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Eagle I4810Q Family

LTE Cat 1 bis	I4810Q-NA	I4810Q-AF
Region/Operator	North America	North America
Dimensions (mm)	17.7 x 15.8 x 2.4	17.7 x 15.8 x 2.4
Weight (g)	Approx. 2.0	Approx. 2.0
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	B2/ 4/ 5/ 12/ 13/ 66	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71
Certifications		
Carrier	**America**: Verizon/AT&T/T-Mobile	**America**: Verizon/AT&T/T-Mobile
Regulatory	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC	**Global**: GCF **North America**: PTCRB **America**: FCC **Canada**: IC
Others	WHQL	WHQL
Max. Data Rates		
LTE-FDD (Mbps)	10 (DL)/ 5 (UL)	10 (DL)/ 5 (UL)
Interfaces		
USIM	× 1	× 1
UART	× 3 (Main, Debug and Auxiliary UART)	× 3 (Main, Debug and Auxiliary UART)
USB 2.0	× 1	× 1
RESET_N	× 1	× 1
PWRKEY	× 1	× 1
PCM (Digital Audio)	× 1	× 1
I2C	× 1	× 1
ADC	× 2	× 2
USB_BOOT	× 1	× 1
NET_STATUS	× 1	× 1
Antenna	× 1 (Main Antenna)	× 1 (Main Antenna)
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*
USB Serial Driver	Windows 8.1/10/11 Linux 2.6-6.7 Android 4.x-13.x	Windows 8.1/10/11 Linux 2.6-6.7 Android 4.x-13.x
RIL Driver	Android 4.x-13.x	Android 4.x-13.x
USB RNDIS Driver	Windows 8.1/10/11 Linux 2.6-6.7	Windows 8.1/10/11 Linux 2.6-6.7
USB ECM Driver	Linux 2.6-6.7	Linux 2.6-6.7
Enhanced Features		
DFOTA	●	●
Wi-Fi Scan	●	●
USIM Card Detection	●	●
Electrical Features		
Supply Voltage Range	3.3-4.3 V, typ. 3.8V	3.3-4.3 V, typ. 3.8V
Power Consumption (Typ.)	55 µA @ Power off Mode 0.06 mA @ Sleep Mode (AT+CFUN = 0, USB disconnected) 0.15 mA @ Sleep Mode (AT+CFUN = 4, USB disconnected) 4.50 mA @ Idle Mode (PF = 64, USB disconnected) 25.50mA @ Idle Mode (PF = 64, USB connected)	55 µA @ Power off Mode 0.06 mA @ Sleep Mode (AT+CFUN = 0, USB disconnected) 0.15 mA @ Sleep Mode (AT+CFUN = 4, USB disconnected) 4.50 mA @ Idle Mode (PF = 64, USB disconnected) 25.50mA @ Idle Mode (PF = 64, USB connected)

NOTE:
1. ① : Both USIM1 and USIM2 interfaces support 1.8 V USIM cards only, when the USIM2 interface is enabled.
●: supported.

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