Q4000™ Global

CatM1 Multi-network communications device

Advantages

> Stand-alone communications solution

> Increases developer capabilities with API

> Meets technical requirements by offering an array of customization options

> Built-in data compression

> Network agnostic for global use

> MQTT protocol support

> J1455 compliant

Options

> CAN Bus J1939

> 3 Serial RS-232C

> Multiple inputs/outputs: analog, digital GPIO (Digital Relay)

> Cellular network options: 2G and LTE (Cat M1/NB IoT)

> Satellite network options: ORBCOMM, Iridium, GPS

The Q4000 allows you to design a robust and feature-rich M2M device with an infinite array of customizable options which include cellular, satellite or dual-mode network configurations and offers programmable onboard applications. Q4000 enables you to realize your M2M solution goals cost-effectively, and quickly, enables continuous connectivity and keeps you in constant communication with your assets, anytime, anyplace.

The Q4000 is a rugged industrial grade M2M modem in a compact form factor that is small enough to hold in your hand. It is designed to meet exacting standards for automotive power conditioning requirements and features a low power draw load for battery operated applications. The Q4000 uses an API (Application Programming Interface) that empowers developers to integrate its functions and build customized embedded applications. Clients are given a wide array of fully customizable options, including multiple inputs/outputs, antenna detection, J1939 CAN Bus, memory and network accessibility based on their M2M technical and functional requirements.

Markets Served

Heavy Equipment

Transportation

Oil and Gas

Q4000 - Global Technical Specifications

Communications- LTE, 2G

LTE: CatM1/NB IoT - B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28

2G: B2, B3, B5, B8

MQTT, SMS, TCP, UDP, FTP

Communications- Iridium*

Transmit Freq: 1616-1626.5MHz
Transmit Power: 2W
Packet Size: Tx 340 bytes I Rx 270 bytes

Data Interfaces

3 Serial RS-232C***
J1939 CAN Bus

Input / Output

2 Analog Inputs
Up to 8 Digital GPIOs
4 Digital Outputs (RELAY)
ORBCOMM/GSM/GPS Antenna Detection

GPS

50 Channels

Industrial Strength

Tested to meet and exceed
J1455 requirements.

Physical Specifications

Size 3.91" x 2.52" x 6.3"
(99.3mm x 64mm x 15.9mm
Weight .375lbs (170 grams)

Services Available

Technical Support
Software Support
Hardware Support
Guaranteed Warranty

Power

External Power Source   9-32 VDC**
Power Consumption   (12V)

   Transmit GSM: 200 mA (Nominal)
   Transmit Iridium: 1000 mA (Nominal)
   Deep Sleep: 25 uA

Real-Time Clock

Programmable

Memory

Flash: 8MB
RAM: 8MB

Environmental Specifications & Certifications

Operating Temperature: -40C to+ 85C
Storage Temperature: -50c to + 85C
Rated to J 1455
FCC Certified
PTCRB Certified
CE Mark
RoHS Compliant

*   Optional- Contact your QUAKE representative   for
    details.
**   Satellite Tx requires a minimum 6.5 VDC for Iridium and
    10.5 VDC for Orbcomm
*** Depending on the model number available, serial ports
    may vary
Evaluation kits available (includes required cables,
antennas, services and airtime)

Product Option Variation

QPRO

Enclosed Housing (IP67)