



## Q-PRO

### FEATURE SET

- Global Coverage
  - Orbcomm
  - GlobalStar
  - GSM
- Fully Programmable

### INDUSTRIAL STRENGTH

Withstands extreme shock temperature and vibration levels

Tested to J1455 requirements

### PHYSICAL SPECIFICATION

Size: 4.5" x 4.5" x 1.75"  
(114mm x 114mm x 38mm)

Weight: 0.8 lbs (382 grams)

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The Quake Global Q-Pro Satellite Data Modem is a portable, self-contained global communication, and navigation system. The small, rugged, environmentally-sealed (IP-67) module contains the latest in advanced programmable features that allow Quake's customers to tailor their communications to their exact, and sometimes changing needs. Using Quake Global's patented and proprietary technology, the standard Q-Pro delivers reliable two-way or one-way data communications through the ORBCOMM and Globalstar constellations of Low-Earth-Orbit (LEO) satellites, as well as through terrestrial GSM networks. For location and navigational applications, the Q-Pro is equipped with an advanced 50-channel GPS system.

With the Q-Pro, users may custom-configure their usage by choosing the exact systems and features that will best meet their needs in the most cost-effective fashion. For example, the Q-Pro may be configured to utilize GSM only, GSM/ORBCOMM, GSM/Globalstar, GSM/ORBCOMM/Globalstar, ORBCOMM only, or Globalstar only. The choice is the user's.

The Q-Pro provides economical two-way machine-to-machine (M2M) and business to business internet communications with land, marine, or aviation based assets and equipment anywhere in the world. The Q-Pro can cost-effectively retrieve data automatically from isolated power substations or remote metering facilities such as oil and gas supply stations. Mobile assets like trucks, ships, and containers are other assets that can be more effectively monitored and managed with the Q-Pro. Designed for multiple applications, the Q-Pro is a flexible solution that can be utilized by both Original Equipment Manufacturers (OEMs) and low-volume users. This self-contained solution is also a great option for any developer that is facing an accelerated time-to-market requirement





## Q-PRO



## ADVANTAGES

- Fully user programmable.
- Individual inputs can be specifically configured to continuously monitor sensors and to report at selected intervals.
- Alarm conditions can be pre-programmed so the Q-Pro reports the condition automatically and immediately.
- Reports can be generated on a regular schedule, by exception-only reporting, or a combination of both.
- Operates as a stand-alone solution for global asset tracking.

## TECHNICAL SPECIFICATIONS

### Data Interfaces

3 Serial RS-232C  
J1939 Can Bus

### Input / Output

2 Analog input  
Up to 8 Digital GPIO's  
4 Digital Outputs (RELAY)

### Environmental Specifications

Operating temperature -40C to + 85C  
Storage temperature: -50C to + 85C

Product is rated to IP67

### GPS

50 Channels

### Certifications

FCC Certified  
PTCRB Certified  
CE Mark

### Power

External Power Source:	9-36 VDC
Power Consumption	(12V)
Transmit:	2.00A (nominal)
Transmit: GSM	0.4 A (nominal)
Standby:	15 mA
Sleep:	10 uA

### Communications - ORBCOMM

Transmit Freq:	148.000 to 150.050 MHz
Receive Freq:	137.000 to 138.000 MHz
Transmit Power	5W min.
Data Rates	2400 bps Uplink 4800 bps Downlink

### Communications – GSM/GPRS

Quad Band Operations  
GSM 850/900/1800/1900 MHz  
SMTP, POP3, SMS, TCP, GPRS

### Communications – GlobalStar (simplex)

Transmit Freq	1611.25 -1618.75 MHz
Transmit Power	64 mW
Packet Size	9-144 bytes

## SERVICES AVAILABLE

Technical Support  
Software Support  
Hardware Support  
Guaranteed Warranty  
Software Engineering

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