



## THE LEADER IN REMOTE ASSET TRACKING



### Q-PRO

#### GLOBAL COVERAGE

- ORBCOMM
- IRIDIUM
- INMARSAT
- GLOBALSTAR
- GSM
- GPS

#### INDUSTRIAL STRENGTH

Tested to meet or exceed J1455 and IP67 requirements.

#### PHYSICAL SPECIFICATIONS

Size: 4.69" x 4.7" x 2.27"  
(119.2mm x 119.4mm x 57.6mm)  
Weight: .85lbs (390.6 grams)

The Q-Pro satellite data modem marks the dawn of a new age in global remote asset tracking. QUAKE™ has developed and patented exclusive technology that offers the customer unprecedented network access and customization options.

The Q-Pro is a small, rugged, environmentally-sealed module with numerous customization options including operating network, inputs/outputs, memory, CAN bus and antenna detection. Additional configuration options are available on volume orders. The Q-Pro incorporates an application programming interface (API) that allows developers to utilize its functions to create customized onboard applications. It delivers reliable one or two-way data communications through multiple satellite and terrestrial networks. For location and navigational applications, the Q-Pro is equipped with an advanced 22-channel GPS system.

The Q-Pro is the first and only solution on the market that provides the customer with a unified communications protocol to communicate across multiple global satellite and terrestrial networks. From the customer's viewpoint, the footprint, processing and connections remain constant, while the network is selected based on the customer's requirements for a particular environment, and then changed based on new circumstances.

This self-contained flexible solution is designed for multiple applications and is an ideal option for any developer that is facing an accelerated time-to-market requirement. It can cost-effectively retrieve data automatically from isolated power substations or remote metering facilities such as oil and gas supply stations. Mobile assets such as trucks, ships and containers can also be more effectively monitored and managed.

1137-0900C Q-Pro Marketing Data Sheet

# TECHNICAL SPECIFICATIONS



## Q-PRO

### ADVANTAGES

- Customizable dual mode GSM & Satellite modem with or without GPS.
- Fully user programmable standalone solution.
- Individual inputs can be specifically configured to continuously monitor sensors and to report at selected intervals.
- Alarm conditions can be pre-programmed to report the condition automatically and immediately.
- Reports can be generated on a regular schedule, by exception-only reporting or a combination of both.
- Environmentally sealed IP67 enclosure.

### SERVICES AVAILABLE

Technical Support  
Software Support  
Hardware Support  
Guaranteed Warranty  
Software Engineering  
Application Development



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### Communications – ORBCOMM\*

Transmit Freq: 148.000 to 150.050 MHz  
Receive Freq: 137.000 to 138.000 MHz  
Transmit Power: 5W min. - 10W max.  
Max Packet Size: Rx 8KB/Rx 8KB

### Communications – Iridium\*

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

### Communications - Inmarsat\*

Transmit Freq: 1626.5 - 1660.5 MHz  
Receive Freq: 1525 - 1559 MHz  
Transmit Power: 4W- 7W  
Max Packet Size: Tx 6.4KB/Rx 10KB

### Communications – Globalstar (Simplex)\*

Transmit Freq: 1611.25 - 1618.75 MHz  
Transmit Power: 156 mW  
Max Packet Size: Tx 144 bytes

### Communications - GSM/GPRS \*

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

### Data Interfaces \*\*\*

Up to 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

22 Channels

### Power

External Power Source: 6-32 VDC\*\*  
Power Consumption: (12V)  
Transmit ORBCOMM: 1.8 A (Nominal)  
Transmit GSM: 0.2 A (Nominal)  
Transmit Globalstar: 100 mA (Nominal)  
Transmit Iridium: 550-850 mA (Nominal)  
Transmit Inmarsat: 920 mA  
Sleep: 30 uA

### Real-Time Clock

Programmable

### Memory

Flash: 2M, 4M\*, 8M\*  
RAM: 2M, 4M\*, 8M\*

### Environmental Specifications & Certifications

Operating Temperature: -40C to + 85C  
Storage Temperature: -50C to + 85C  
Rated to IP67 and J1455  
FCC Certified  
PTCRB Certified  
CE Mark  
RoHS Complaint

\*Optional – Contact your QUAKE representative for details.

\*\*Satellite Tx requires a minimum of 9 VDC, ORBCOMM TX Requires 10.5 VDC

\*\*\*Depending on the model number and serial port's memory