



THE LEADER IN REMOTE ASSET TRACKING



Q-PRO

Global Coverage

- ORBCOMM
- IRIDIUM
- 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 50-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.



Q-PRO

ADVANTAGES

- Customizable dual mode ORBCOMM/Iridium/Globalstar/GSM with 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 sealed enclosure.

SERVICES AVAILABLE

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



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TECHNICAL SPECIFICATIONS

Communications – ORBCOMM*

Transmit Freq: 148.000 to 150.050 MHz
 Receive Freq: 137.000 to 138.000 MHz
 Transmit Power: 5W min. - 10W max.
 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: 156 mW
 Packet Size: 9-144 bytes

Communications – Iridium*

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

Power

External Power Source: 6-32 VDC**
 Power Consumption: (12V)
 Transmit ORBCOMM: 1.8 A (Nominal)
 Transmit GSM: 0.2 A (Nominal)
 Transmit Globalstar: 800 mA (Nominal)
 Transmit Iridium: 550-850 mA (Nominal)
 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 – See your QUAKE representative for details.

**Satellite Tx requires a minimum of 10.5 VDC