QPRO

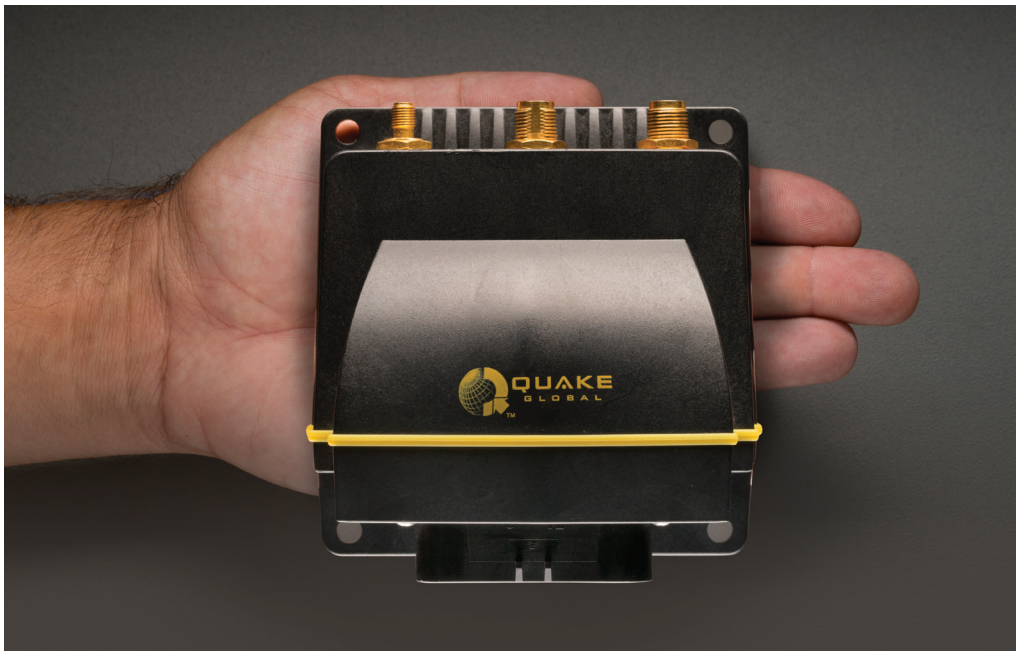
Environmentally sealed product that works across many networks

Advantages

- Stand-alone solution for harsh environments
- Powerful API (Applications Programming Interface)
- Ruggedized IP67 enclosure
- Built-in data compression features
- Network agnostic for global use
- J1455 compliant

Options

- CAN Bus J1939
- 3 Serial RS-232C
- Multiple inputs/outputs: analog, digital GPIO (Digital RELAY), GPS
- Terrestrial network options: 2G, 3G and LTE
- Satellite network options: ORBCOMM, Iridium, GPS



Innovation at its best. The QPRO marks the dawn of a new age in global remote asset tracking. It is the first and only solution on the market that affords clients with an intelligent universal communications protocol transmitted across multiple global terrestrial and satellite networks. Even when new circumstances arise, the QPRO's footprint, processing and connections remain constant. End-users are also granted an unprecedented number of network system options to select based on their M2M needs.

The QPRO, a self-contained modifiable solution, is designed for multiple applications, and is an ideal option for any developer that has project time constraints. It can retrieve data automatically from remote power substations and metering facilities such as oil and gas supply stations. With this feature, not only are development costs and timelines reduced considerably, mobile assets such as trucks, ships and containers are easily managed and monitored.

Markets Served

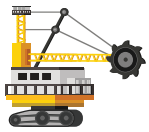

Agriculture


Maritime


Heavy Equipment


Transportation


Oil and Gas


Mining


Construction

CALL : 82.2.3444.7311 EMAIL: SALES@ORBCOMM.CO.KR VISIT: WWW.ORBCOMM.CO.KR

QPRO Technical Specifications

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

Communications- Inmarsat
Transmit Freq:	1626.5 -1660.5MHz
Transmit Power:	5 - 7 W
Packet Size:	Tx 6.4 KB I Rx 10 KB

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

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

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

GPS
50 Channels

Industrial Strength
Tested to meet and exceed
J1455 requirements.

Physical Specifications
Size 4.7" x 4.7" x 2.48"
(119.4mm x 119.7mm x 62.9mm)
Weight .85lbs (386 grams)

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

Transmit ORBCOMM:	1800 mA (Nominal)
Transmit GSM:	650 mA (Nominal)
Transmit Iridium:	1000 mA (Nominal)
Sleep:	
Iridium:	25 uA
ORBCOMM:	25 uA

Real-Time Clock
Programmable

Memory
Flash: 8MB
RAM: 8MB
Approximately 1MB available for customer applications

Environmental Specifications & Certifications
Operating Temperature: -40C to+ 85C
Storage Temperature: -40c to + 85C
Rated to IP67 and J1455
FCC Certified
PTCRB Certified
CE Mark
RoHS Compliant

* Optional- Contact your QUAKE representative for details.
** Satellite Tx requires a minimum of 10.5 VDC
*** Depending on the model number, serial ports may vary

Services Available
Technical Support
Software Support
Hardware Support