



The Leader in Remote Asset

Q1400

PRODUCT FEATURES

Small, Low-Profile Footprint
Real Time Clock
Programmable

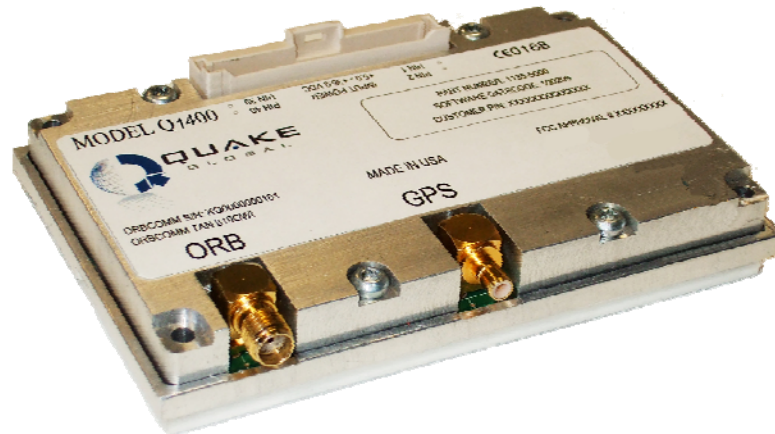
PHYSICAL SPECIFICATION

Size: 3.91" x 2.50" x .65"
(99.3mm x 64mm x 17mm)
Weight: 0.3 lbs (136.5 grams)

APPLICATION INTERFACE

ORBCOMM Serial Protocol
Customer Supplied Custom
Application (written in C using
QUAKE API)

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The Q1400 with GPS is the QUAKE[®] modem of choice for users who need an “all-in-one” satellite modem plus GPS product. The Q1400 modem is a small, low-profile, flexible, intelligent, and user-friendly satellite-based communication modem into which QUAKE has integrated a 50-channel GPS receiver and an on-board computer processor. The Q1400 is specifically designed to operate over the ORBCOMM[®] two-way global satellite communications network, and is therefore not limited by cellular coverage boundaries

A fully supported application programmer's interface (API) allows developers to utilize the functions of the Q1400 to create customized onboard applications. The API includes all the necessary tools to write, compile, and load custom applications onto the Q1400.

Other features of the Q1400 include: a Real Time Clock (RTC); 2 serial ports; 2 configurable digital I/O's; and satellite and GPS antenna detection circuitry.. Individual inputs can be specifically configured to continuously monitor sensors and report at selected intervals. Alarm conditions can be pre-programmed so the unit reports the alarm condition automatically and immediately. Routine reports can be generated on a regular schedule, by exception-only reporting, or a combination of both.

The Q1400 with GPS is versatile, adaptable, easy to use, reliable, and, like all of QUAKE's modems, designed to meet the rugged conditions and extreme environments encountered in the heavy equipment, trucking, marine, and other important industries served by QUAKE.





The Leader in Remote Asset Tracking

Q1400

SERVICES AVAILABLE

Technical Support
Software Support
Hardware Support
Guaranteed Warranty
Software Engineering

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ADVANTAGES

- Fully user programmable.
- Orbcmm Antenna and GPS Antenna Detection Circuitry
- Operates as a stand-alone solution for global asset tracking.
- Internal GPS and Real Time Clock

TECHNICAL SPECIFICATIONS

Data Interfaces

2 Serial Ports
RS-232C
RS-232C RX/TX pair

Environmental Specifications & Certifications

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

FCC Certified, TUV Japan
CE Mark, Industry Canada

Integrated GPS Chip Set

50 Channels
GPS Antenna Detection Circuitry

Real Time Clock

Programmable

Digital Inputs/Outputs

2 General Purpose I/O's

Communications

Transmit Freq: 148.000 to 150.000 MHz
Receive Freq: 137.000 to 138.000 MHz
Transmit Power: 5W min.
Data Rates: 2400 bps Uplink
4800 bps Downlink

ORBCOMM Antenna Detection Circuitry*

Power

External Power Source: 5-36 V
Power Consumption (12V)
Transmit: 2.0A (nominal)
Standby: 50 mA
Sleep: 10uA

Operation Modes

Transmit: Communications with satellites
Standby: Continuous satellite reception
Sleep: Waits for external input or scheduled start

Memory

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

* OPTIONAL –See your Quake Representative for details

