

The Leader in Remote Asset Tracking

PRODUCT FEATURES

Small, Low-Profile Footprint
Real Time Clock
Over the Air Programming
Easy integration for external
GPS



- Best Available ORBCOMM Transceiver
- Industrial Strength
- Robust and Reliable Operation
- On-Board Computer Processor



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 16-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; and 2 configurable digital I/O's. 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.

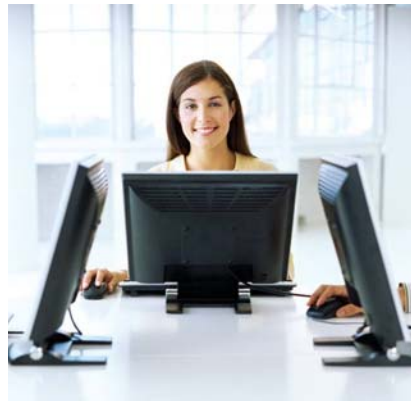
The Q1400 with GPS is versatile, adaptable, easy to use, reliable, and, like all of QUAKE's modems, designed to meet the rugged conditions and extreme environments encountered in the heavy equipment, trucking, marine, and other important industries served by QUAKE.

9765 Clairemont Mesa Blvd
Suite A
San Diego, CA 92124
(858) 277-7290
(858) 277-7259 Fax
www.quakeglobal.com
sales@quakeglobal.com



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Features and Benefits



Quakes' communication hardware is designed to operate and perform in the harshest of conditions. Initially designed for the heavy equipment environment, but now widely used in multiple applications, QUAKE communicators can withstand extreme temperatures, shock, electrical interference, and vibration levels. QUAKE provides the latest in global communication and technology at an affordable price. QUAKE solutions give you the option of using the most affordable means of communication by switching between cellular and satellite depending upon your coverage requirements. Responsive to your specific needs, QUAKE has the flexibility to provide hardware or software for your application development.

Our Mission is to deliver the highest quality, universal and affordable satellite communication products used for the tracking and monitoring of high value assets worldwide.

PHYSICAL SPECIFICATION

Size: 5.4" x 2.5" x .7" (137mm x 66mm x 18mm)

Weight: 0.4 lbs (182 grams)

SERVICES AVAILABLE

Technical Support
Software Support
Hardware Support
Guaranteed Warranty
Software Engineering

APPLICATION INTERFACE

ORBCOMM Serial Protocol
QUAKE® Base Application (User Programmable)
Customer Supplied Custom Application
(written in C using QUAKE API)

OPERATION MODES

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

System Requirements

Data Interfaces

2 Serial I/F 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

u-blox Chip Set
16 GPS Channels

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

Power

External Power Source: 9-18V
Power Consumption (12V)
Transmit: 2.2A (nominal)
Standby: 80mA
Sleep: 10uA

