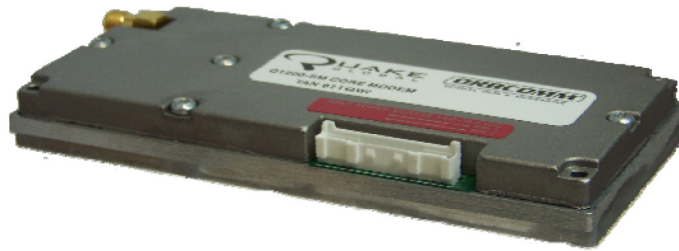


# Leader in remote asset tracking

TECNOSEGUR



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

## Q1200-SM

The Q1200-SM, is an excellent choice for developers who have the need to integrate a very flexible, intelligent, and user-friendly satellite-based communication modem into their applications. The Q1200-SM is specifically designed to operate over the ORBCOMM® two-way global satellite communications network, and is therefore not limited by cellular coverage boundaries

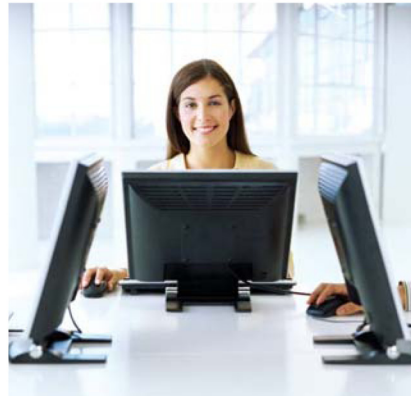
Similar to QUAKE's Q1200-SG, the Q1200-SM includes a locking interface connector and additional "load dump protection" is designed in. A fully supported application programmer's interface (API) allows developers to utilize the functions of the Q1200-SM to create customized onboard applications. The API includes all the necessary tools to write, compile, and load custom applications onto the Q1200-SM.

Other features of the Q1200-SM 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 Q1200-SM 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.

# Leader in remote asset tracking

## 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.

## 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, CE Mark, TUV Japan,  
Industry Canada

### 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: 9-18VDC  
Power Consumption  
Transmit: 2.2A (nominal)  
Standby: 80mA  
Sleep: 10uA

### PHYSICAL SPECIFICATION

Size: 5.4"x 2.5"x .6" (137mm x 64mm x 15mm)  
Weight: 0.4 lbs (182 grams)

### SERVICES AVAILABLE

Technical Support  
Software Support  
Hardware Support  
Guaranteed Warranty  
Software Engineering

### APPLICATION INTERFACES

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

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