



The Q1000 is QUAKE's lowest priced ORBCOMM modem. The module incorporates the latest ORBCOMM technology, enabling a footprint approximately ½ the size of the smallest existing modem. Further, the Q1000 provides a simple serial interface that allows solutions to be integrated with minimal software development, and very little external processing hardware. This interface supports operations with simple, programmable, serial sensors.

The data interface to the modules is an RS-232 or optional CMOS serial, 4-pin (RX,TX,DTR,GND) interface. The DTR line works as the modems "ON/OFF" switch. With DTR asserted the modem is 'ON'. With DTR de-asserted the modem is 'OFF'. The Q1000 supports the ORBCOMM serial protocol interface.

Features:

- Low Cost Transceiver**
- Small, low-profile footprint**
- ORBCOMM Serial Interface**
- Smallest Satellite Communicator**
- Withstands 12V Automotive Transients**





Low Cost Compact ORBCOMM Modem For Remote Monitoring and Control



The ORBCOMM System is a wireless, two-way global satellite communications network. The system provides global coverage and data communications between the Q1000 and the operator via the Internet, cell phones, pagers, or PDA's.

Technical Specifications

Data Interfaces

Serial Ports

RX/TX pair (RS-232 or CMOS levels)

Environmental Specifications & Certifications

Operating Temperature: -40°C to +85°C

Storage Temperature: -50°C to +85°C

FCC

Application Interface

ORBCOMM Serial Interface (RX/TX only)

QUAKE Serial/Sensor Interface

Communications

Transmit Freq: 148.000 to 150.000 MHz

Receive Freq: 137.000 to 138.000MHz

Transmit Power: 5W min.

Data Rates: 2400 bps Uplink
4800 bps Downlink

Power

External Power Source:9-18V

Transmit: 2A

Standby: 75mA

Sleep: 10µA

Operation Modes

Transmit: Communication with satellites

Standby: Continuous satellite reception

Sleep: Waits for external input or scheduled start

Physical Specifications

Size: 2.5" x 2.5" x .6"(64mm x 64mm x15mm)

Weight: .3 lbs. (100 grams)



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