

Q1000

MODEM ORBCOMM BIDIRECCIONAL Smallest Orbcmm Satellite Modem



This small satellite modem is designed for developers who may already have a solution that includes a controller and who want to incorporate global satellite based communications into their application. The Q1000 provides a simple serial interface which allows solutions to be integrated with minimal development.

A key feature of the Q1000 is that the developer may choose from a multitude of configurations. There are RF connector options, interface connector options and serial port options. This broad array of options provides the developers with unprecedented flexibility, allowing them to design a "custom" modem into their application.

The Q1000 uses a simple 6-pin connection; two pins are used for input power. The data interface to the module is an RS-232 or an optional CMOS serial connection. Four pins (RX, TX, DTR, and GND) are all that are needed to send and receive data. The DTR line works as the modem's "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.

This device is small, basic, and a perfect product for introducing a low-cost satellite modem dynamic to your tracking or remotely controlled application.

Technical Specifications

Data Interfaces

RS-232C or CMOS RX/TX pair

Environmental Specifications & Certifications

Operating temperature -40C to + 85C

Storage temperature: -50C to + 85C

FCC Certified

CE Mark,

Industry Canada, TUV Japan

Operation Modes

Transmit: Communications with satellites

Standby: Continuous satellite reception

Sleep: Waits for external input

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

Downlink 4800 bps

Power

External Power: 9 -18V

Power Consumption (12V)

Transmit: 2.0 (nominal)

Standby: 70 mA

Sleep: < 5 uA



www.sislove.net/techs

www.sislove.net

RUA NOVA, 19

27001 LUGO

+34 982 25 00 38

info@sislove.net