QUAKE GLOBAL

THE LEADER IN REMOTE ASSET TRACKING

Q4000

(Q1400 Equivalent)
P/N 1135-NGSACN2NN

Major Features

- ORBCOMM SATELLITE TRANSCEIVER
- IRIDIUM
- RTC
- I/O

INDUSTRIAL STRENGTH

Tested to meet or exceed J1455 requirements.

PHYSICAL SPECIFICATIONS

Size: 3.91" x 2.52" x .63"
(99.3mm x 64mm x 15.9mm)
Weight: .375lbs (170 grams)

The Q4000 is the QUAKE™ modem of choice for users who need a cost effective, fully programmable all-in-one ORBCOMM® satellite data modem with GPS global tracking capability. The Q4000 is a small, rugged, intelligent and configurable solution into which QUAKE has integrated a 22-channel GPS receiver and an on-board computer processor.

QUAKE incorporates a fully supported application programming inte- rface (API) that allows developers to utilize the functions of the Q4000 to create customized onboard applications. The Developement Kit includes all the necessary tools to write, compile and load custom applications onto the Q4000.

Q4000 provides economical two-way machine-to-machine (M2M) and business to business internet communications with land, marine or aviation based assets and equipment anywhere in the world. The Q1400 can cost-effectively retrieve data automatically from isolated power substations or remote metering facilities such as oil and gas supply stations. Mobile assets such as trucks, ships and containers can also be more effectively monitored and managed. Designed for multiple applications, the Q4000 is a flexible solution that can be utilized by both original equipment manufacturers (OEMs) and low-volume users. This self-contained solution is also a great option for any developer that is facing an accelerated time-to-market requirement.

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Q4000

ADVANTAGES

- Integrated satellite modem with GPS.
- Fully user programmable standalone solution.
- Individual inputs can be specifically configured to continuously monitor sensors and to report at selected intervals.
- Alarm conditions can be pre-programmed to report the condition automatically and immediately.
- Reports can be generated on a regular schedule, by exception-only reporting or a combination of both.

SERVICES AVAILABLE

Technical Support
Software Support
Hardware Support
Guaranteed Warranty
Software Engineering
Application Development

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TECHNICAL SPECIFICATIONS

Communications – ORBCOMM*

Transmit Freq:	148.000 to 150.050 MHz
Receive Freq:	137.000 to 138.000 MHz
Transmit Power:	5W min. - 10W max.
Data Rates:	2400 bps Uplink / 4800 bps Downlink

Data Interfaces

3 Serial RS-232C

Input / Output

2 Analog Inputs
8 Digital GPIOs
4 Digital Outputs (RELAY)
ORBCOMM/GSM/GPS Antenna Detection

GPS

22 Channels

Power

External Power Source:	6-32 VDC **
Power Consumption:	(12V)
(processor only 45 mA)	
Transmit ORBCOMM:	1.8 A (Nominal)
Receive ORBCOMM:	80 mA
(GPS additional 10 mA)	
Sleep:	30 uA

Real-Time Clock

Programmable

Memory

Flash: 2M
RAM: 2M

Environmental Specifications & Certifications

Operating Temperature:	-40C to + 85C
Storage Temperature:	-50C to + 85C

Rated to J1455
FCC Certified
CE Mark

*Optional – See your QUAKE representative for details.
**Satellite Tx requires a minimum of 10.5 VDC