TECNOSEGUR

Leader in Remote Asset tracking

Q4000

The Q4000 incorporates the latest Quad Band GPRS technology available in the M2M market today.
The Q4000 is specifically designed for applications operating over the GSM networks and the Orbcomm satellite network. The system provides two-way global data communications.
The Q4000 module has been designed to ensure reliable operations in remote and severe environments. User programmability is a key feature of this unit. 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 condition automatically and immediately. Reports can be generated on a regular schedule, by exception only reporting, or a combination of both.

INDUSTRIAL STRENGTH
Withstands extreme shock and vibration levels
Tested to the highest standards

ON-BOARD COMPUTER PROCESSOR
Significant memory available for on-board custom applications

PRODUCT FEATURES
GSM Module
Best Orbcomm Transceiver
Analog Inputs
Digital Input/Outputs
C programmable
Over the air programming
GPS
Real Time Clock

- **Robust and Reliable Operation**
- **Orbcomm Compatible Satellite Modem**
- **Meets Industrial Vibration Requirements**

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Technical Specifications

Data Interfaces

2 Serial I/F Ports
- RS-232C
- RS-232C RX/TX pair
- CMOS RX/TX pair

Environmental Specifications & Certifications

Operating temperature -40C to + 85C
Storage temperature: -50C to + 85C
FCC Certified
PTC RB Certified
CE Mark

GPS

16 Channels

Communications - ORBCOMM

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

Communications - GSM

Quad Band Operations
GSM 850/900/1800/1900 MHz
UDP, SMTP, POP3, SMS, TCP

Power

External Power Source:	9-36 VDC
Power Consumption	(12V)
Transmit: ORBCOMM	2.25A
(nominal)	
Transmit: GSM	.5 A (nominal)
Standby:	100 mA
Sleep:	10 uA

OPERATION MODES

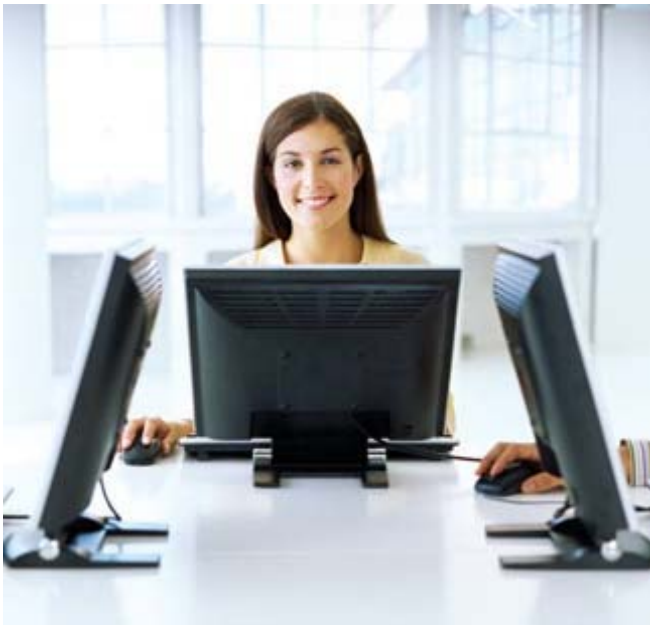
Transmit: Communications with GSMS/Satellites
Standby: Continuous GSM/Satellites reception
Sleep: Waits for external input or scheduled start

PHYSICAL SPECIFICATION

Size: 5.3"x 2.5"x .6" (135mm x 64mm x 15mm)
Weight: .4lbs (181 grams)

SERVICES AVAILABLE

Technical Support
Software Support
Hardware Support
Guaranteed Warranty
Software Engineering



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.

TECNOSEGUR

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