



The Q5500D+ is specifically designed for applications operating over the INMARSAT satellite network. The system provides two-way global data communications.

The Q5500D+ module has been designed to ensure reliable operation in remote and severe environments, including marine applications and asset tracking.

User programmability is a key feature of this unit. The Q5500D+ can be programmed. 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.

### **Features:**

- Environmentally sealed package
- Fully integrated INMARSET antenna
- Fully integrated GPS antenna
- Robust and reliable operation
- Memory available for on-board applications
- Two way messaging
- Programmable





## INMARSAT D+ Satellite Modem For Remote Monitoring and Control

The INMARSAT D+ System operated by Satamatics is a wireless two-way global communications network. The system provides global coverage using geostationary satellites to provide data communications between the Q5500D+ and operator via the Internet.

### Technical Specifications

#### Data Interfaces

- 2 Configurable Inputs
  - Digital(32V max)
  - Analog(12bit ADC, 0 to 2.5V)
- 2 Outputs
  - Open drain(250mA max sink current)
- 1 RS-232 Serial Port
  - 9600 bps

#### Environmental Specifications & Certifications

- Operating Temperature:
  - 40°C to +70°C
- FCC
- IP66

#### Integrated GPS Chip Set

- SirF Chip Set
- 12 channel GPS

#### Application Interface

- Quake Manager Utility
- TSL Compiler

#### Communications

- Transmit Freq: 1626.5-1660.5 MHz
- Receive Freq: 1525-1559 MHz
- EIRP: 0-9 dBW
- Data Rates:
  - Tx: 8sec(Global Beam)  
Up to 84 bits per burst  
~10bps
  - Rx: Up to 1000 bits  
~9bps

#### Power

- External Power Source: 9.6-32VDC
- Power Consumption:
  - Transmit: 5W
  - Receive(incl. GPS): 1.5W
  - Sleep: .5mW

#### Operation Modes

- Sleep- Power saving mode,  
GPS off and satellite communication off
- Standby- GPS off and satellite communication off
- GPS only- GPS on and satellite communication off
- Static- GPS off and satellite communication on
- Mobile- GPS on and satellite communication on

#### Physical Specifications

- Size: 112mm(diameter) x 45.75mm(height)  
4.4"(diamter) x 1.8" (height)
- Weight: 350 grams (.77 lbs)

