



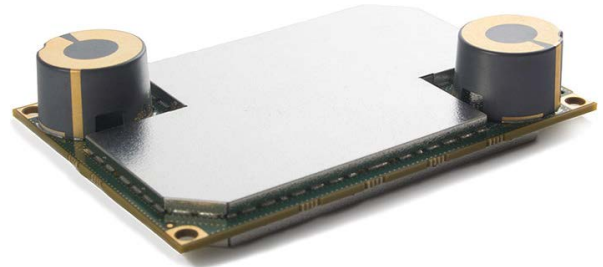
TRANSPORT REFRIGERATION PARTS

DATASHEET ST 6000

## ST 6000

The next generation unpackaged satellite terminal—more powerful, more versatile, more coverage.

Reliably track, monitor and control assets in some of the world's most isolated regions.



ORBCOMM's ST 6000 satellite terminal delivers complete visibility and control of industrial assets operating in remote areas. Designed with OEM customers in mind, the ST 6000 features a small footprint with integrated antennas and extensive tools to facilitate integration into larger systems. The ST 6000 can be embedded into a solution used to track mobile assets such as light- and heavy-duty commercial vehicles, railcars, fishing vessels, marine buoys, heavy equipment and more. And with two-way satellite connectivity, the ST 6000 is ideal for remotely monitoring and controlling fixed and portable assets used in SCADA applications such as those in the energy sector, where access may be restricted by geography, including pipelines, flow meters, pumps, generators and tanks.

### Easy integration

ORBCOMM makes it easy to bring IoT solutions to market. The fully programmable ST 6000 includes comprehensive resources to facilitate integration into a wide range of custom solutions, including development, testing and production environments, documentation, code samples, device-level configurable applications and free technical support.

### Global satellite connectivity

The ST 6000 delivers reliable global communications over the IsatData Pro satellite service for uninterrupted visibility of operations and access to businesscritical field data in even some of the world's most remote locations. And because of its two-way connectivity, users can remotely control field equipment.

### Comprehensive feature set

ORBCOMM's next generation ST 6000 leverages the latest technology advancements to offer enhanced functionality at great value. The integrated antennas feature exceptional low elevation angle performance, allowing one device to support both terrestrial and maritime applications. The unpackaged terminal also features a built-in accelerometer, expanded memory capacity, and enhanced support for global navigation systems—GPS, Glonass and Beidou.

**FULLY PROGRAMMABLE**

**COMPREHENSIVE INTEGRATION  
RESOURCES FOR QUICK DEPLOYMENT**

**TWO-WAY SATELLITE  
COMMUNICATIONS**

**VERSATILE SATELLITE TERMINAL FOR  
OEMS**

**ORBCOMM**

**WE STOCK IT.  
YOU GET IT.**

[WWW.MYRIADPARTS.COM](http://WWW.MYRIADPARTS.COM)



### Satellite communication

- Satellite service: two-way, Global, IsatData Pro or OGx
- Maximum message size:
  - IsatData Pro: From-mobile 6.4 kB, to-mobile 10 kB
  - OGx: From-mobile 1 MB, to-mobile 1 MB
- Typical latency: <15 sec, 100 bytes
- Elevation angle: 0° to +90°
- Frequencies:
  - IsatData Pro: Rx 1525.0 to 1559.0 MHz;
- Tx 1626.5 to 1660.5 MHz
  - OGx: Rx 1525.0 to 1559.0 MHz;
- Tx 1626.5 to 1660.5 MHz
- EIRP: <7.0 dBW

### Certification

- Regulatory
  - ST 6000: CE (R&TTE, RoHS 2, RED), FCC, IC, Anatel
  - ST 6001: CE, FCC, IC, Anatel
  - ST 6002: CE. Pending: FCC, IC, Anatel
- Others: Inmarsat Type Approval

### Electrical

- Input voltage: VAUX: 3.5VDC (Min) to 6VDC (Max),
- VIN: 5.8VDC ±3%
- Power consumption @ 5.8V and 25C
- (Typical Average):
  - IDP Receive: 125 mA;
  - GPS/Glonass/Beidou Receive: 41 mA;
  - Transmit: 1.1 A;
  - Sleep: <150 µA

### Dimensions

- 6.9 x 10.1 x 2.1 cm

### External interfaces

- Inputs/outputs: 4 analog or digital in/out
- Serial: console, auxiliary, and RS485 Ports - all 3.3V TTL

### Environmental

- Operating temperature: -40°C to +85°C
- Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G (Sec 14.6)
- Shock: MIL-STD-810G (Sec 516.6)
- Altitude: SAEJ1455 (Sec 4.9.3)
- UV Exposure: 1334 hr exposure per ASTM G154

### Programming

- Lua scripting engine with core services. SDK with GUI development tools available. Lua software application upgradable over the air (SOTA).
- Core services: Geofence, data logger, position reporting, accelerometer events, serial communications.
- Optional configurable device-level applications, including:
  - Analytics app: Notifications and reports for driver behaviour and vehicle/asset performance.
  - AVL app: Facilitates integration of ST 6000 terminals into fleet management solutions.
  - Garmin Dispatch app: Tracking, navigation, driver communication and dispatch using Garmin devices.
  - Garmin FMI app: Fleet management support for two-way text messaging, stops, driver ID, hours of service, file-transfer, custom forms, and speeding alerts.

### Accelerometer

- 3-axis accelerometer

### Memory

- Lua Code RAM: 4MB
- Lua Code NVM: 8MB

### Ordering codes/related products

- **ST6000-2XX** ST 6000 terminal
- **ST6001-2XX** ST 6001 terminal
- **ST6002-2XX** ST 6002 terminal

Although we strive to ensure accuracy in all of our published specifications, actual field performance can vary depending on a variety of environmental, installation and usage factors, as well as third-party factors such as cellular providers. The specifications listed are approximations, and do not constitute binding statements or modify the terms and conditions of purchase or lease including, but not limited to, product operational limitations and warranties. All specifications are subject to change without notice. Please check [www.orbcomm.com](http://www.orbcomm.com) to ensure you have the latest version of these specifications.

Myriad Parts is a leading provider in the transport refrigeration parts industry, dedicated to offering high-quality products and exceptional customer service. We specialise in a wide range of parts and accessories designed to keep your refrigeration units running efficiently and reliably. Our comprehensive product offerings, combined with our commitment to customer satisfaction, make us a trusted partner for businesses in the transportation, supply chain, and logistics sectors.

For more information, please visit [www.myriadparts.com](http://www.myriadparts.com).

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