

## ST 6100

The next generation 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 6100 satellite terminal delivers complete visibility and control of industrial assets operating in remote areas. The versatile, environmentally sealed ST 6100 can be installed on mobile assets such as light-and heavy-duty commercial vehicles, railcars, fishing vessels, heavy equipment and more. And with two-way satellite connectivity, the ST 6100 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, including pipelines, flow meters, pumps, generators and tanks.

### Easy integration

ORBCOMM® makes it easy to bring IoT solutions to market. The fully programmable ST 6100 includes comprehensive resources to facilitate integration into a wide range of custom solutions. The resources include development, testing and production environments, documentation, code samples, device-level configurable applications and free technical support.

### Global satellite connectivity

The ST 6100 delivers reliable global communications over the IsatData Pro satellite service for uninterrupted visibility of operations and access to business-critical field data in even some of the world's most remote locations. And because of its two-way connectivity, users can remotely control assets without sending workers to the field.

### Comprehensive feature set

ORBCOMM's next generation ST 6100 leverages the latest technology advancements to offer enhanced functionality at great value. The internal antenna features exceptional low elevation angle performance, allowing one device to support both terrestrial and maritime applications. The 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**

**Ruggedized and versatile**





### Satellite communication

- Satellite service: two-way, Global, IsatData Pro
- From-mobile message: 6,400 bytes
- To-mobile message: 10,000 bytes
- Typical latency: <15 sec, 100 bytes
- Elevation angle: -5° to +90°
- Frequency: Rx: 1518.0 to 1559.0 MHz;  
Tx: 1626.5 to 1660.5 MHz;  
1668.0 to 1675.0 MHz
- EIRP: <7.0 dBW

### GPS/Glonass/Beidou

- Acquisition time: Hot: 1 second; Cold: 29/30/36 seconds
- Accuracy: 2.0m CEP
- Sensitivity:
  - » Acquisition: -148 dBm
  - » Tracking: -163 dBm

### Certification

- Regulatory: CE, FCC, IC, Anatel, RCM Mark, IEC 60945, C1D2, SRRC, IFT, ICASA, FFA;  
Pending: MSS Russia
- Others: Inmarsat Type Approval, IP67

### Electrical

- Input voltage: 9 to 32V; Load dump protection: +150V; SAE J1455 (Sec. 4.13)
- Power consumption (typical average @12V DC, 22°C):
  - » IDP Receive: 65 mA;
  - » GPS/Glonass/Beidou Receive: 22 mA;
  - » Transmit: 0.65 A;
  - » Sleep: 100 µA

### Dimensions

- 12.6 cm x 12.6 cm x 4.9 cm

### External interfaces

- Inputs/outputs: 4 analog or digital in/out
- Serial: RS-232; RS-485

### Environmental

- Operating temperature: -40°C to +85°C
- Dust and water ingress: IP67

- Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G (Sec 514.6)
- Shock: MIL-STD-810G (Sec 516.6)

### 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 Agent - Notifications and reports for driver behaviour and vehicle/asset performance.
  - » AVL Agent - Facilitates integration of ST 6100 terminals into fleet management solutions.
  - » Garmin Dispatch Agent - Tracking, navigation, driver communication and dispatch using Garmin devices.
  - » Garmin FMI Agent – 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: 6MB

### Options

- Side or bottom connector variants

### Ordering Codes/related products

**ST6100-SXX** ST 6100 Terminal, Side Connector

**ST6100-BXX** ST 6100 Terminal, Bottom Connector

**ST6100-BXXC** ST 6100 Terminal, Bottom Connector, C1D2

**ST100679-001** ST 6100 Development Kit

**ST100030-001** Mating Cable Connector Kit with Solder Cups

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ORBCOMM (Nasdaq: ORBC) is a global leader and innovator in the industrial Internet of Things, providing solutions that connect businesses to their assets to deliver increased visibility and operational efficiency. The company offers a broad set of asset monitoring and control solutions, including seamless satellite and cellular connectivity, unique hardware and powerful applications, all backed by end-to-end customer support, from installation to deployment to customer care. ORBCOMM has a diverse customer base including premier OEMs, solutions customers and channel partners spanning transportation, supply chain, warehousing and inventory, heavy equipment, maritime, natural resources, and government. For more information, visit [www.orbcomm.com](http://www.orbcomm.com).