

## PT 7000

### Cellular or dual mode satellite-cellular telematics for heavy equipment and construction.

Complete visibility and comprehensive machine data to manage your fleet anywhere in the world.



The PT 7000 is designed to track heavy equipment assets in the most demanding environments in the world. As part of a comprehensive telematics solution that can include cellular and satellite connectivity, sensors and a cloud application, the PT 7000 delivers actionable data to fleet managers, giving them complete visibility of operations and enabling informed decision making.

#### Advanced communications

The PT 7000 features 4G LTE (3G/2G fallback) cellular connectivity, with optional dual mode satellite connectivity giving you choice and flexibility ensuring that you stay connected. Satellite connectivity ensures that you can communicate with your machines, in the most remote locations, almost anywhere in the world.

#### Diverse interface support

The device features two primary interfaces, 3-wire and CANbus. To maximize use case applicability, it supports multiple digital and analog inputs, digital outputs, RS-232 and Bluetooth for wireless sensors and installation, verification and troubleshooting plus a built-in accelerometer.

#### Multiple reporting modes

The PT 7000 supports multiple modes of operation including interval and scheduled reporting, on-demand/page checks, condition-based reporting and pre-defined alert triggers to allow the ultimate in reporting flexibility.

#### Designed to operate in harsh environments

The ruggedized PT 7000 is designed to operate under extreme environmental conditions, with resistance to dust, water, shock and vibration to ensure uninterrupted connectivity regardless of the environment. Battery back-up enables reporting for up to a month when disconnected from power.

#### Flexible and versatile

The PT 7000 is available as a turnkey solution with ORBCOMM's FleetEdge heavy equipment fleet management web application and multi-network connectivity. APIs are available to facilitate integration into proprietary or third-party applications.

**4G LTE cellular and optional satellite communication**

**Diverse interface support**

**Multiple reporting modes**

**Extremely rugged**

**Onboard geofences**

**Backup battery**



### Communications

- 4G LTE Cellular (3G/2G fallback)
- Optional satellite support (IsatData Pro or OG2)
- External cellular and satellite antennas

### GNSS

- GPS, Glonass, Beidou, and/or Gallileo

### Poll response time

- 2-3 minutes

### Certifications

- PTCRB
- Inmarsat Type approved
- ORBCOMM Type approved
- FCC, IC, CE
- RoHS compliant

### Electrical

- Input Voltage: 9V - 32V DC
- Protection: load dump, reverse polarity
- Backup battery – up to 30 days at 2 messages per day

### Dimensions

- 7.5 x 4.3 x 1.5 inches
- 19.1 x 10.9 x 3.8 cm

### Interfaces

- 3- Wire
- CAN Bus (up to 2)
- RS-232 (up to 2)
- Digital inputs: 4
- Digital outputs: 2 pull-up, 2 pull-down
- Analog inputs: 4
- Bluetooth
- Accelerometer
- Indicator LEDs

### Connectors

- RF: FAKRA SMB
- Baseband: Delphi 24-pin
- Integrated cable management
- Color coded antenna connections with strain relief

### Environmental/Mechanical

- Operating temperature
  - » *External Power: -40°C to +85°C*
  - » *Battery Operation: -30 to +60*
- Polycarbonate; IP67 rated
- Dust and water ingress: IP67
- Vibration: SAE J1455, MIL-STD-810F
- Shock: MIL-STD-810G

### Accelerometer

- 3-axis

### Reporting

- Interval Position
- Motion Start/Stop
- Condition-based
  - » *Fault codes*
  - » *Engine/Idle hours*
  - » *Fuel consumption*
  - » *Battery voltage*
  - » *Antenna connect/disconnect*
  - » *Geofence*
- Pre-defined event triggers

### Device (Re)Configuration

- Firmware updates via cellular or RS-232 diagnostics port
- Remote device configuration updates via cellular
- Local device configuration wirelessly through field support tool

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