

PT 7000 (China edition)

Fully compliant cellular telematics for heavy equipment and construction in China.

Complete visibility and comprehensive machine data to manage your fleet in China.



The PT 7000 (China edition) is designed to track heavy equipment assets in the most demanding environments and is fully certified to operate in China. As part of a comprehensive telematics solution with cellular connectivity, sensors, a cloud application and a China Unicom SIM card, 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, and a China Unicorn SIM with optional dual mode satellite connectivity giving you choice and flexibility ensuring that you stay connected.

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 communication

China Unicom SIM

Diverse interface support

Multiple reporting modes

Extremely rugged

Supports geofences

Backup battery



Communications

- 4G LTE Cellular (3G/2G fallback)
- China Unicom SIM

Poll response time

- 2-3 minutes

Certifications

China:

- China Compulsory Certification (CCC)
- Network Access License (NAL)
- China Radio Approval (SRRC)
- Internet Content Provider (ICP) license

Global:

- PTCRB
- 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: 2
- Digital inputs: 4
- Digital outputs: 2 pull-up, 2 pull-down
- Analog inputs: 4
- Bluetooth
- Accelerometer
- Indicator LEDs
- RS-232 diagnostics port

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

CALL: 1.800.ORBCOMM EMAIL: SALES@ORBCOMM.COM VISIT: WWW.ORBCOMM.COM

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