



CT 1010

Visibility. Security. Protection.

The CT 1010 container monitoring device combines telematics with sensor technology to protect cargo, reduce the risk of fires, identify mishandling, make containers safer for crews to operate and deliver container visibility around the clock.

It features a container interior sensor pod that detects ambient temperature, light, motion, shock, freefall, door openings and closings and more.

Shipping lines can use the CT 1010 to improve container security, protect cargo integrity, increase asset visibility for customers, improve operational efficiencies and strengthen crew safety. And it helps prevent insurance claims and reputation damage with improved traceability.

Container security

Mitigate in-transit risk with advanced algorithms and automation from advanced motion, shock, light and tamper sensors for container mishandling, device interference and rollover detection.

Comprehensive visibility

Reduce visibility gaps to maximise operations, increase supply chain efficiency and improve customer relationships with comprehensive monitoring, geofences, customizable alerts, RFID tags and historical reporting.

Container interior sensor pod detects:

Ambient temperature inside and outside container for fire detection

Motion and shock for pick-up, drop, and freefall detection

Light and door openings and closings for access and damage monitoring

Adaptive power management

Integrated door sensor

ATEX Zone 2 certified

Specifications

Model

- Model number: CT1010

Cellular technology

- LTE FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
- LTE TDD B34/B38/B39/B40/B41
- UMTS B1/B2/B4/B5/B6/B8/B19
- GSM 850/900/1800/1900MHz

Physical

- 213 x 53 x 51 mm
- 8.4 x 2.1 x 2.0 inches
- Plastic material: polycarbonate
- Color: white

Communication protocols

- TCP, FTP

Antenna

- Built-in cellular antenna, GPS/GNSS antenna, BLE antenna

Constellations supported

- GPS, GLONASS, BeiDou, Galileo, QZSS

Wireless

- Cellular and BLE
- Remotely programmable EPC Gen 2 compliant RFID tag (Read-only)

SIM type

- MFF2, solderable SIM

Accelerometers

- Primary 3-axis digital accelerometer with customizable thresholds for motion detection
- Secondary accelerometer for advanced shock, crane-operation and rollover detection

Environmental

- Operating temperature: -30°C to +70°C
- Vibration: AAR S-9401, 3.2.4.2
- Mechanical shock: MIL-STD-810H (Method 516.8), 40g

Memory

- Storage for more than 2000 messages (90+ days of operation)



CT 1010 container sensor pod

Flammability

- Enclosure: UL 94 5VA

Ingress

- IP67 (enclosure + sensor pod)

Sensors

- Near-infrared time-of-flight sensor to detect door position (open or closed)
- Far-infrared sensor to detect abnormal temperature changes
- Ambient temperature sensor
- Ambient light sensor
- Tamper detection sensor

Certifications

- FCC/IC
- PTCRB
- CE RED 2014/53/EU
- ROHS
- ATEX Zone 2

Battery

- Lithium-ion battery recharged by integrated solar panel
- Charge temperature: -20°C to 50°C
- Discharge temperature: -20°C to 70°C
- Storage temperature: -40°C to 85°C

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 to ensure you have the latest version of these specifications.

For more information on our solutions or to book a demo, email us: info@ORBCOMM.com

Visit our website www.ORBCOMM.com

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