ORBCOMM®

WHERE IoT POWERS ASSET INTELLIGENCE™

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CT 1010

Visibility. Security. Protection.

The CT 1010 is a smart container monitoring device that protects cargo, reduces risk of fire, makes containers safer for crews to operate and delivers container visibility around the clock. It helps prevent insurance claims and reputation damage with improved traceability. Its container interior sensor pod detects ambient temperature, motion, light, door openings and closings for access and damage monitoring.

Comprehensive visibility
Reduce visibility gaps to maximise operational efficiency, increase supply chain resiliency and improve customer relationships with comprehensive monitoring, geofences, customizable alerts and historical reporting.

Cargo protection
Mitigate in-transit risk with advanced algorithms and automation from motion, door, light and tamper sensors to improve container security and protect cargo integrity. Receive early detection of abnormal temperature increases inside and outside containers.

Integrate with CrewView
Locally manage containers at sea through real-time monitoring, alarm management and alerts to crews' duty and mobile phones at sea.

Container interior sensor pod detects ambient temperature, motion, light, door openings and closings for access and damage monitoring.

Live alerts at sea

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

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)

Flammability
- Enclosure: UL 94 V-0

CT 1010 container sensor pod

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: -30°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**

ORBCOMM is a global leader in industrial IoT, delivering visibility, intelligence and efficiency to the world's most critical operations. With 30 years of innovation and more than 2.4 million connected devices, we transform data into actionable insights, driving greater efficiency, safety, resilience and sustainability. Serving customers that include the world's largest shipping lines, over-the-road trucking fleets, cold-chain transportation fleets and a global network of IoT solution provider partners, ORBCOMM is where IoT powers asset intelligence.

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