



TRANSPORT REFRIGERATION PARTS

DATASHEET CT 1000

## CT 1000

Dry container tracking digitalized for intelligent visibility.

Obtain location and status of dry containers moving through complex supply chains.



The CT 1000 digitalizes dry container tracking, providing visibility and traceability for shipping lines and their customers so they can turn data into decisions about their maritime operations. It allows shippers to estimate arrival times, identify issues and quickly deploy corrective measures to mitigate delays. The solution enables shippers and operators to optimize their businesses and reduce operating costs by helping them identify information gaps in the supply chain.

Customers get location data documenting the asset's journey, with both real-time and historical reporting. With GPS tracking and ambient temperature monitoring as standard features, operators can monitor the status of cargo at all times.

### Built and certified for the maritime environment

The CT 1000 is a cellular, solar-powered solution designed to last the life of the container. With automatic over-the-air updates and rugged ATEX Zone 2 explosionproof certification, it's built to require no manual intervention after installation. IP67 and IP69K rated, its solar panel and battery have the highest ingress protection level for dust and water. The long battery life and wide range of temperature operation (from -20° to 70° Celsius) enables reliable and uninterrupted reporting, even in the harshest conditions. The device requires only 10-90 minutes of sunlight per day, depending on device configuration and operating conditions. The battery can provide up to three months of operation at 75% capacity without sun exposure.

### Easy, fast install

The CT 1000 can be installed in about one minute. It can be attached quickly and permanently with two rivets. Optimized for narrow corrugations in containers, the CT 1000's rugged enclosure withstands shock and vibration and protects the device from damage.

### Smart monitoring and dynamic reporting

Ensure cargo parameters are being met with ambient temperature monitoring to assess damage during transit and protect against insurance claims. Dynamic reporting allows users to configure reporting intervals depending on whether the container is in motion or stationary.

### Leveraging ORBCOMM's SIM and LTE Coverage

The global IoT SIM gives access and roaming on 565 worldwide networks in 180 countries for connectivity options that meet shippers' unique requirements.

**SOLAR POWERED**

**INSTALLATION IN AS LITTLE AS ONE MINUTE**

**RUGGED MARITIME-READY CONSTRUCTION**

**ATEX-CERTIFIED AND IP67 AND IP69K RATED**

**MULTI-NETWORK CELLULAR CONNECTIVITY**

**AMBIENT TEMPERATURE MONITORING**

**GLOBAL SIM**

**ORBCOMM**

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YOU GET IT.**

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### Cellular Technology

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

### Dimensions:

- 7.76 x 2.0 x 2.0 inches
- 197 x 50.8 x 50.8 mm
- Plastic material: Polycarbonate
- Color: white

### SIM Type

- Solderable SIM

### Communication Protocols

- TCP, FTP

### Wireless

- Cellular and BLE

### Antenna

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

### Constellations Supported

- GPS, GLONASS, BeiDou, Galileo and QZSS

### Battery

- Charge temperature: -20°C to 50°C
- Discharge temperature: -20°C to 70°C
- Storage temperature: -40°C to 85°C at relative humidity 65 +/-20%

### Accelerometer

- 3-axis digital accelerometer with motion detection

### Sensors

- Standard: GPS, ambient temperature
- Optional: Wireless sensors by BLE\*

### Certifications

- FCC/IC
- PTCRB
- CE RED 2014/53/EU
- ROHS
- ATEX
- WEEE
- Global Access Approval: Australia/ New Zealand, Brazil, China, Japan, South Korea, South Africa, UKCA, etc.

### Environmental

- Operating temperature: -20°C to +70°C
- IEC 60529
- Vibration: AAR S-9401, rail car body mounted; MIL-STD-810H
- Mechanical shock: MIL-STD-810H (Method 516.6)

### Memory

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

### Flammability

- Enclosure: UL 94 5VA

### Ingress

- IP69K
- IP67

### Electrical Output Power

- Cellular radio output power of 2G/3G/4G: Max 33dBm
- GSM850: Class 4 (33 dBm ±2 dB)
- EGSM900: Class 4 (33 dBm ±2 dB)
- DCS1800: Class 1 (30 dBm ±2 dB)
- PCS 1900: Class 1 (30 dBm ±2 dB)
- GSM850 8-PSK: Class E2 (27 dBm ±3 dB)
- EGSM900 8-PSK: Class E2 (27 dBm ±3 dB)
- DCS1800 8-PSK: Class E2 (26 dBm ±3 dB)
- PCS1900 8-PSK: Class E2 (26 dBm ±3 dB)
- WCDMA: Class 3 (24 dBm +1/-3 dB)
- LTE-FDD: Class 3 (23 dBm ±2 dB)
- LTE-TDD: Class 3 (23 dBm ±2 dB)

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](http://www.orbcomm.com) to ensure you have the latest version of these specifications.

\*Coming soon.

Myriad Parts is a leading provider in the transport refrigeration parts industry, dedicated to offering high-quality products and exceptional customer service. We specialise in a wide range of parts and accessories designed to keep your refrigeration units running efficiently and reliably. Our comprehensive product offerings, combined with our commitment to customer satisfaction, make us a trusted partner for businesses in the transportation, supply chain, and logistics sectors.

For more information, please visit [www.myriadparts.com](http://www.myriadparts.com).

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