VIACHAIN™
AN ORBCOMM COMPANY

WHERE IoT POWERS SMART SUPPLY CHAINS



CT 1000

Dry container tracking digitalized for intelligent visibility.

The CT 1000 provides 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. Shippers and operators can use the CT 1000 to optimize operations, enhance cargo security and cut costs by identifying data gaps in the supply chain.

Built and certified for the maritime environment

The CT 1000 is a cellular, solar-powered device designed to last the life of the container. With over-the-air updates and a rugged enclosure that withstands shock, vibration, dust and water, the CT 1000 requires minimal upkeep and can handle anywhere from -20° to 70° Celsius.

Easy, fast install

Supported by our Field Service Tool app, the CT 1000 is optimized for narrow container corrugations and can be installed in as little as one minute with two rivets.

Smart monitoring and dynamic reporting

Monitor cargo requirements through ambient temperature alerts for assessing in-transit damage and safeguarding against insurance claims. Dynamic reporting allows users to configure reporting intervals depending on whether the container is in motion or stationary.

- **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**
- **Optional door sensor support**

Specifications

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

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

Constellations supported
- GPS, GLONASS, BeiDou, Galileo, QZSS

Accelerometer
- 3-axis digital accelerometer with motion detection

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)

Wireless
- Cellular and BLE

Sensors
- Standard: GPS, ambient temperature
- Optional: wireless door sensor

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.

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

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%

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.viachain.io to ensure you have the latest version of these specifications.

Email: **sales@viachain.io** | Call: **1-800-672-2666**

Visit our website **www.viachain.io**

VIACHAIN™, an ORBCOMM® company, is a global leader in IoT solutions that deliver enhanced sustainability, cargo safety and operational reliability for logistics providers, trucking fleets and the world's largest shipping lines. Our pioneering technology transforms intermodal containers and trailers into smart assets to optimize efficiency and reduce risk. Providing real-time visibility and insights into location, condition, safety and route performance, our solutions enable fast reactions to disruptions. With more than 1.6 million connected assets, VIACHAIN is where IoT powers smart supply chains.

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