ORBCOMM®

WHERE IoT POWERS ASSET INTELLIGENCE™

Datasheet

CT 3601

Remote reefer container management and control

The CT 3601 delivers complete reefer container monitoring, visibility and control with reduced deployment time for cost-effective reefer management.

Reduce installation time and risk

Install the CT 3601 in as little as half of the time of its predecessor for reduced downtime and third-party installation costs. No-drill installation means avoiding potential container wall damage. Deter tampering and removal thanks to its discrete installation inside the reefer cabinet.

Protect reefer cargo

Monitor and correct temperature before loads are compromised for advanced temperature management. Reduce cargo spoilage claims with customisable alerts when temperature or readings deviate from normal range.

Control reefers remotely

Optimise turns and reduce crew time with remote pre-trip inspections. Quickly correct and adjust reefer unit parameters from onshore.

Improve fleet utilisation

Use GNSS data, geofences and advanced reports to track when equipment arrives or leaves ports, terminals and depots to streamline distribution and reduce dwell and cycle times.

- **Remote reefer control**
- **Advanced temperature management**
- **Internal reefer cabinet install**
- **No-drill install**
- **Remote pre-trip inspections**
- **Support for Copeland REFCON BLE monitoring system**

Enhance container visibility

Monitor and manage reefers from virtually anywhere. Provide accurate ETAs and other data to customers to improve quality of service and help mitigate delays.

Specifications

Cellular technology

- CAT 1 4G LTE (3G/2G support)
- LTE FDD B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28
- LTE TDD/B39
- UMTS B1/B2/B4/B5/B6/B8/B19
- GSM 850/900/1800/1900MHz

Antenna

- Cabled cellular/GPS/BLE antenna mounted inside the reefer cabinet
- Dimensions:
  - *5.500 x 1.500 x 0.515 inches*
  - *139.7 x 38.1 x 13.1 mm*

Environmental

- Operating temperature: -40°C to 85°C
- Internal battery operating temperature: -40°C to 70°C
- IP54 (IEC 60529) (when connectors are mated)
- Vibration: AAR S-9401, rail car body mounted; MIL-STD-810H
- Shock: MIL-STD-810H

Certifications

- FCC/IC
- PTCRB
- CE Red
- RCM (Australia)

SIM type

- MFF2, solderable SIM

Communication protocols

- SMS, UDP, TCP, FTP

Dimensions

- 6.786 x 3.190 x 1.125 inches
- 172.37 x 81.03 x 25.58 mm
- Plastic material: Polycarbonate
- Color: black

GNSS technology

- Receive tracking sensitivity -157 dBm
- GPS, GLONASS, BeiDou, Galileo, QZSS

Battery

- Internal 3.6 Ah
- Charge temperature: -20°C to 60°C
- Discharge temperature: -40°C to 70°C
- Storage temperature: -40°C to 85°C at relative humidity 65+/-20% RH

Wireless

- Cellular, dual BLE

Flammability

- Enclosure: UL94 V-0
- Antenna cable: UL1581 VW-1

Accelerometer

- 3-axis digital accelerometer with motion detection

Electrical

- 15-36 VAC
- 9-32 VDC
- Max peak 60V at 10 milliseconds
- Over-voltage protection

Installation/LEDs

- Installed inside standard reefer cabinets in RMM/PLM expansion slot on mounting bracket
- Single tricolor LED to indicate unit status (cellular/reefer comms)
- Magnetic reset switch

Memory

- Storage of:
  - *More than 2000 messages*
  - *More than 5000 onboard 12-point geofences plus unlimited backend geofences*
  - *Reefer software files before updates*
  - *Data log download files before sending*

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 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.