

RT8000

Remote Trailer Telematics Unit

Product: ORBCOMM RT8000

IP Rating: IP67

Operating Temp: -40°C to +85°C

Voltage: 10–32 VDC (5 A inline fuse required)

Internal Battery: 2000 mAh lithium (auto backup)

Data Interface: Bluetooth, RS232, CAN, GPS, Cellular, Wireless Sensors



QUICK INSTALLATION OVERVIEW

1. Pre-Installation

- Turn off the refrigeration unit.
- Disconnect the negative battery cable.
- Confirm variant model (RT8000-1100 or 2100) to match harness and antenna requirements.

2. Mounting the Unit

- Mount directly to trailer side panel—no bracket needed.
- Use sealant and stainless-steel fixings.
- Avoid heat sources (e.g., exhausts) and ensure the unit is not blocked by metal.

3. Cable Harness & Power

- Attach cable harness temporarily for layout planning.
- Secure the cable splitter with either:
 - 3M Primer & tape (firm pressure for 60 seconds)
 - Cable ties
- Connect:
 - **Red:** +VDC (use 5 A inline fuse)
 - **Black:** Ground

4. Antennas

- RT8000-2100: Requires external GPS and Cellular antennas
- Mounting Rules:
 - Clear sky view for GPS
 - Avoid curling, heat, sharp bends
 - Do not modify antenna cables
- Mount BLE antenna (if required) inside the trailer ceiling for sensor signal.

QUICK INSTALLATION GUIDE RT8000



5. Connecting Sensors

- Supports up to 10 analogue or digital inputs (GPIO)
- Supports wireless temp/door sensors (TS300, TS310, DS300)
- Mount temp sensors:
 - Mid-roof, ~1/3 into the trailer
 - Use sensor guard (p/n 002.000.0020)
 - Allow extra cable for future calibration

6. Connecting to Recorder

- Supports integration with:
 - Euroscan X3/MX2, Carrier DataCold, Transcan Advance, and TK TouchPrint
- Use ORBCOMM cable (p/n 004.000.0070) and ensure the external recorder modem is disabled when connecting.

7. SIM & Server Setup

- Default: Embedded SIM
- Optional: External SIM slot (requires micro-SIM, APN settings)
- Configure via DeviceManager software:
 - Choose SIM source
 - Enter APN + PIN
 - Reboot and confirm connection

8. Configuration (via DeviceManager)

- Configure:
 - Inputs/outputs
 - Temperature & door sensors
 - Alarms (thresholds, delays)
 - Fridge communication protocol (e.g., Carrier, Mitsubishi)
 - GPS logging intervals
- Bluetooth or USB/serial connection options available.

Installation Checks

- Confirm firmware is up-to-date
- Confirm GPS signal and server connection
- Test sensors by applying heat/cold
- Check fridge integration (setpoint updates)

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