RT8110 & RT8120

Advanced Remote Telematics Unit

Product: ORBCOMM RT8110 / RT8120
IP Rating: IP20, IP65 and IP67
Operating Temp: −40°C to +70°C
Voltage: 10–32 VDC
Internal Battery: 2600 mAh lithium (internal backup)
Data Interface: GPS, Cellular, BLE, RS232, CAN, Wireless Sensors

QUICK INSTALLATION OVERVIEW

1. Before Installation
- Switch off the refrigeration unit and disconnect the battery.
- Determine appropriate mounting surface—flat, metal or composite panel with minimal vibration.
- Select variant-specific installation parts (external antennas for RT8120).

2. Mounting the Unit
- Mount to the front wall or ceiling of the trailer using sealant or screws.
- Keep device upright and unobstructed for optimal signal and cooling.
- RT8120: Route and mount GPS + Cellular antennas using standard guidance—clear of metal and away from other radio equipment.

3. Harness and Power
- Connect:
  - Red Wire – +VDC
  - Black Wire – Ground
- Use a 5 A fuse on power input.
- Route cable securely with loom or conduit, avoiding sharp bends and heat sources.

4. Connecting External Components
- **Door Switches** – connect via digital input pins
- **Temp Sensors** – up to 6 wired probes or compatible wireless sensors
- **Fridge Interface** – connect via RS232 or CAN (Carrier, Thermo King, Mitsubishi)
Use Orbcomm's communication harness for proper integration.

5. Wireless Sensor Pairing
- Pair BLE sensors (e.g. TS300, DS300) using the Orbcomm Field Support Tool App.
- Ensure internal antenna has unobstructed signal path inside trailer.

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6. SIM & Network Configuration

- Embedded SIM is factory-installed. Optional external SIM can be inserted.
- Configure via DeviceManager:
  - Choose SIM slot
  - Enter APN and PIN (if needed)
  - Save & reboot to activate

7. Setup & Commissioning

- Use DeviceManager or Bluetooth app to configure:
  - Temperature sensor logic
  - Door detection inputs
  - Logging interval and alarm thresholds
  - GPS tracking behaviour
- Confirm:
  - LED indicators show active GPS and cellular signals
  - Device reports to Orbcomm server
  - Temp data and door status are accurate

Final Checks

- Ensure firmware is updated
- Validate signal strength and mounting security
- Print a test report if connected to a recorder (e.g. Euroscan or DataCold)

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.

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