



WHERE DATA DRIVES DECISIONS



## The smart cold chain

**Real-time connectivity, visibility and traceability for refrigerated transportation**

Improper temperature control is among one of the top reasons why perishable goods are wasted in cold chain transport. Without a complete solution in place, cold chain fleets may struggle to meet strict food safety regulations and have a higher risk of spoiling loads.

ORBCOMM provides fleets with the data and tools to reduce the risk of spoiled goods and help comply with regulations while also reducing costs, increasing operational efficiency and improving customer service.



# Intelligent cold chain monitoring

ORBCOMM delivers end-to-end telematics solutions that enable comprehensive management and control of refrigerated trailers, containers and other assets in the supply chain on land, rail or sea.



## The smart cold chain: key benefits

### Reduce claims

Around-the-clock temperature monitoring, control and automated alarms allow for quick, corrective action when issues with a load are detected; helping prevent cargo spoilage, minimise losses due to claims and significantly reduce insurance premiums.

### Make compliance easy

Simplify compliance with local and international food safety regulations and guidelines including GAMP® 5, HACCP, EN 12830, CE, RED and PTCRB, through the continuous collection and retention of temperature data that makes it easy to share proof of temperature whenever required.

### Increase profitability

Optimise asset utilisation, turn times, trailer pools and tractor-to-trailer ratios with comprehensive fleet reports and geofences. Reduce detention and maintenance costs and minimise downtime.

### Improve efficiency

Use sophisticated monitoring systems that connect directly to refrigeration units to and handle reefer functions remotely, so your driver doesn't have to.

### Keep assets visible

Maintain contact with drivers and visibility of assets with cellular and optional satellite communications, keeping fleets connected in areas where the cellular network is unreliable, unavailable or compromised by severe weather.

### Streamline handoffs

Ensure loads maintain appropriate temperature setpoints when switching hands to preserve the integrity of the cold chain and protect your business from liability. Streamline the distribution of refrigerated cargo with arrival and departure notifications to minimise time spent at loading docks.

### Reduce fuel costs

Identify opportunities to optimise equipment operation and detect issues such as fuel theft or improper invoicing.

### Improve customer service

Build customer loyalty by providing them with shipment visibility so they can see delivery times, streamline load and unload crews, and speed up the distribution of goods.

# Key features

## Flexible reporting

Access critical fleet and cargo status data anywhere from the ORBCOMM platform, from our mobile app or right from your Transportation Management System (TMS). Our flexible APIs and comprehensive third-party integrations seamlessly deliver rich trailer data to your existing dispatch or proprietary enterprise system.

## Two-way commands

Direct integration with the leading refrigeration unit manufacturers, including Carrier, Thermo King and Mitsubishi, enable advanced temperature reporting, real-time alerts and remote reefer control. Change temperature set points and mode of operation, initiate a pre-cool or pre-trip inspection, power a unit and more—all from a centralised location.

## Proof of temperature

Receive notifications when asset temperatures are optimal for loading or when they deviate outside specified parameters. Automate the collection and retention of temperature data, and store temperature records for up to a year to easily provide to authorities.

## Fuel analytics

Save money on fuel by optimising reefer operation, detecting theft and validating fuel purchases. Comprehensive reports allow you to assess performance for different refrigeration systems and identify reefer settings that help improve fuel economy.

“

***What really appealed to us is the highly intuitive software platform.***

This allows us to generate numerous automatic reports for the maintenance of our refrigeration units, as well as associated alerts.

”

**Beniot Éon**

Managing Director  
Transports EON, France



## Temperature charts

See reefer temperature on a dynamic chart for a specific date range. Export temperature values to a .csv file for further analysis and to easily share data.

## Automated alerts

Get notified of sudden temperature fluctuations, equipment malfunctions, unscheduled stops, unauthorised door openings and more. Receive regular updates on operating mode, running hours, battery, fuel levels and more. Receive alerts via email or text to individuals or groups.

## Smart geofences

Receive automated departure and arrival notifications to streamline load and unload cycles, optimise trailer assignment, improve turn times and monitor for detention.





# Five reasons to choose ORBCOMM

**1 Proven**  
ORBCOMM is a pioneering global leader in industrial IoT. Choose a solution that has proven itself through decades of experience and expertise, with more than 2.2 million subscribers overall, and more than 700,000 current cold chain subscribers around the world.

**2 Seamless integration**  
We have unique integrations with all major reefer OEM models which enable dual-mode connectivity, accurate temperature readings and remote control at every point in the supply chain. Additional integration with TMS and third-party systems allows customers to get actionable trailer data from their existing dispatch application, eliminating the need to learn a new software.

**3 End-to-end**  
Our solutions feature proprietary, best-in-class technology and include intelligent IoT

telematics devices, seamless satellite and cellular connectivity and a powerful management platform, all backed by end-to-end customer support through all aspects of deployment and beyond.

**4 Ruggedised hardware**  
Select from different, ruggedised hardware solutions that house sophisticated technology to solve any temperature monitoring situation, from refrigerated rigid trucks to reefer trailers.

**5 Single-source solutions**  
Eliminate the risk and complexity of sourcing multiple providers. Unlike our competitors, we provide integrated, proprietary end-to-end solutions for nearly every asset class. The devices, the connectivity and the platform are all designed to work together, and there's only one number to call if an issue arises.

For more information on our solutions or to book a demo,  
email us at: [info@ORBCOMM.com](mailto:info@ORBCOMM.com)

Visit our website [www.ORBCOMM.com](http://www.ORBCOMM.com)

**ORBCOMM**<sup>®</sup>  
WHERE DATA DRIVES DECISIONS

ORBCOMM is a pioneer in IoT technology, empowering customers with insight to make data-driven decisions that help them optimise their operations, maximise profitability and build a more sustainable future. With 30 years of experience and the most comprehensive solution portfolio in the industry, ORBCOMM enables the management of over a million assets worldwide for a diverse customer base spanning transportation, supply chain, heavy equipment, maritime, natural resources and government. For more information about how ORBCOMM is driving the evolution of industry through the power of data, visit [www.orbcomm.com](http://www.orbcomm.com).