



WHERE DATA DRIVES DECISIONS



The Power of Dual-Mode Connectivity

Increase network reliability with satellite and cellular connectivity

Eliminate blind spots and ensure complete visibility of freight transport operations with always-on backup satellite communications.

Whether you're looking to protect valuable cargo, ensure the integrity of temperature-controlled loads, comply with regulations or improve utilization, complete visibility of the location and status of transport assets and cargo is key to running a profitable and efficient operation. Traditional asset tracking solutions rely on cellular connectivity to transmit critical data, but what happens when there are cellular network interruptions?

The case for satellite

Cellular network blind spots are common in mountainous regions, rural areas and even urban areas with heavy traffic. Plus, natural disasters and bad weather can knock networks out of commission for days or weeks. ORBCOMM helps solve this by offering dual-mode connectivity: combining the unbeatable reliability and reach of satellite with the economical value of cellular.



Dual-mode connectivity: key benefits

Stay on top of critical information

Our solution automatically switches between cellular and satellite networks based on availability—ensuring a consistent flow of data from every driver and fleet asset.

Stay compliant

When it comes to perishables, every minute counts. With satellite, fleet managers get notified when temperatures deviate outside normal ranges, when a reefer shuts off during an active trip or when equipment malfunction occurs—even if the cellular network is down or out of reach. Two-way control over satellite also enables operators to remotely set temperature, turn a unit back on or start a pre-cool to ensure a reefer is ready for a load.

Enhance last-mile delivery

High performance in the last mile is crucial to freight transportation. Often, drivers enter more densely populated areas in the last mile, where cellular networks can become congested and unreliable.

With satellite and cellular, fleets can more effectively ensure coverage, maintaining operational efficiency in the last mile by being able to properly communicate ETAs, yard arrivals, slot times, signature captures, departure times, possible delays and other critical data.

Satellite ensures uninterrupted visibility of shipments, with cellular supporting coverage when satellite line of sight is not available, so cargo owners can efficiently allocate crews and coordinate end logistics.

Protect from cargo theft

Traditional telematics solutions can be vulnerable to illegal cellular network jammers that force telematics devices offline, preventing them from sending alerts.

Cellular network jammers can also prevent drivers from using their cell phones to report a situation. Similarly, theft can occur in remote areas with unreliable cellular coverage. A dual-mode solution ensures continuous location and status reports to help carriers detect theft, enable traceability and facilitate recovery.

Future-proof your telematics system

In many regions of the world, legacy cellular networks are being shut down, with 4G LTE and 5G replacing 3G and 2G networks. The short lifespan of cellular networks can pose a challenge for fleets when it comes protecting their investment and choosing the right IoT solution. Dual-mode solutions give carriers an extra line of network support against cellular sunsets, helping to ensure continued service.

Proven ROI

Blind spots in the cellular network can be costly—causing claims due to spoiled loads, loss of business or reputation, fines from missed compliance and poor customer service to name a few.

Today, more stringent competition, broader service availability and significant technological improvements have made satellite communications more accessible and affordable than ever.

Key features

Easy add-on

Choose satellite as an accessory when you purchase your fleet telematics solution or add it later as needed. The hardware required for satellite connectivity can be installed quickly to help minimize trailer downtime. Once the satellite communications device is installed, all subsequent firmware updates are completed over the air to minimize interruptions to operations.

Automatic failover

The solution is designed for automatic failover to ensure always-on communications. When connection to the cellular network is lost, the device automatically switches to satellite until connectivity with the cellular network is re-established.

Least-cost routing

Our advanced telematics solution takes full advantage of the capabilities and characteristics of both the satellite and cellular networks. Airtime least-cost routing ensures the most affordable network available is used, every time. Devices can also be programmed to send and receive larger amounts of data while using

cellular, and limit data transfers to critical information when using satellite for improved cost savings.

Global coverage

Satellite delivers total coverage virtually anywhere in the world and is less susceptible than cellular to blind spots due to congestion, region, natural disasters and weather.

Remote reefer control

Cellular and satellite networks enables constant communication to and from the reefer telematics device and the back office. Plus, it enables fleets to control reefer assets from a centralized location without engaging drivers or sending personnel to the field.

Data when you need it

ORBCOMM's satellite and cellular solutions deliver low-latency communications to ensure complete visibility of fleet operations and access to the right information at the right time.



Five reasons to choose ORBCOMM

1 **Proven**

Choose a solution proven through 30 years and over 500,000 assets in the field. We are trusted by some of the biggest names in the industry, like JB Hunt, Walmart, Hub Group, C.R. England, Target and many more.

2 **Seamless integration**

Enhanced integration with TMS systems like McLeod and TMW allows customers to get actionable data from their existing dispatch application, eliminating the need to learn a new software.

3 **End-to-end**

The complete package: proprietary best-in-class technology including intelligent IoT telematics devices, seamless satellite and cellular connectivity

and a powerful management platform—all backed by extensive technical customer support.

4 **Always connected**

We own and operate the world's first and only commercial satellite network dedicated to industrial IoT. Thanks to our backup satellite capabilities, fleets can gain uninterrupted connectivity to every asset in their fleet—even when cellular is unavailable or compromised.

5 **Every asset class, one solution**

Get a single view of all your assets—trucks, dry trailers, reefers, containers and chassis—on one screen. A unified view makes it easier for dispatch, safety, compliance, operations, IT and executives to manage all aspects of the fleet from the one platform.

For more information on our solutions or to book a demo:

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Visit our website www.ORBCOMM.co.kr



ORBCOMM is a pioneer in IoT technology, empowering customers with insight to make data-driven decisions that help them optimize their operations, maximize 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.