

Satellite Connectivity: Smart Data for Fleet Management

Optimize, digitize and keep assets moving with “anywhere” connectivity

The Globalstar satellite network offers the most reliable and cost-effective solution for extending monitoring and control across fleet management and transportation applications. Whether tracking vehicles in remote areas, ensuring driver safety, or optimizing logistics operations, Globalstar enables seamless communication and real-time data transmission. From protecting critical assets to enhancing route efficiency and compliance, our satellite connectivity ensures uninterrupted fleet operations – no matter where they go.

Supporting Transport with Satellite Connectivity

Satellite connectivity has become increasingly crucial for modern transportation, especially in tracking, operations, and safety. It enables real-time communication and data sharing between vehicles, warehouses, and offices, improving decision-making and operational efficiency. Use cases leveraging the technology are numerous, including:



Truck and Trailer Tracking

Satellite technology allows for GPS tracking of trucks and trailers, improving the visibility of their locations and status. This helps ensure timely deliveries, prevent theft, and optimize fleet management.



Optimizing Operations

With satellite connectivity, transportation companies can monitor traffic, weather, and road conditions. This enables dynamic route adjustments and more efficient scheduling, reducing delays and improving customer satisfaction.



Supporting Maintenance

Continuous data on vehicle performance and diagnostics helps predict maintenance needs, reduce unexpected breakdowns, and improve fleet reliability by addressing issues before they become costly repairs.



Creating Efficiencies in Routing

Satellite data helps transportation managers optimize routes, considering traffic, road conditions, and fuel consumption, which can lower costs and reduce travel time.



Digitizing Traditionally Manual Processes

Satellite connectivity enables digital monitoring and reporting of various operational aspects, from inventory tracking to fuel usage, reducing the reliance on paper-based processes and manual data entry.



Driver Safety

Satellite connectivity supports driver safety by providing alerts on road conditions, enabling emergency response, and ensuring compliance with driving regulations, such as rest periods and speed limits.

Delivering Value Across Your Operations: How Globalstar Does It

Our Realm Enablement Suite is the infrastructure for transmitting smart data from edge to endpoint. The low-code Edge Application Platform is the key to unlocking the unlimited capabilities of these rugged, reliable devices in the field and slashing hundreds of hours of development time for new products.

The architecture is comprised of:

- **Application Layer**

The base applications that run the RM200M, Integrity 150 and ST150M, as well as Bluetooth® services, are open to developers for integration with their software, including theft alert, messaging, tracking, and auto-response.

- **Unified API Layer**

Application program interfaces (APIs) enable your custom applications to immediately access the full capabilities of devices, including sensor support, without additional coding.

- **Library Layer**

Globalstar offers an extensive base library that can grow through our GitHub community with sensors measuring temperature, humidity, magnetic fields, angular position, motion, proximity, and other metrics.

- **Hardware Application Layer**

Hardware interfaces allow full driver/hardware abstraction within Realm devices to simplify and speed development.

Realm Edge Solutions

Devices and Modules



RM200M Two-Way Modem Module and Developer Kit

This Globalstar satellite module employs a single-stack chip design to provide seamless connectivity with advanced capabilities to not only track and monitor data with reliable two-way connectivity, but action an auto-response if corrective countermeasures are required. The RM200M utilizes enhanced two-way functionality on Globalstar's LEO satellite network to provide ubiquitous, seamless coverage with low power, low latency, integrated GPS, Bluetooth® low energy, a 3D accelerometer and application processor. The RM200M Dev Kit includes RM200M module on a dev board with separate satellite and GPS patch antennas, all compatible with an Arduino Shield, to develop and test technology designs before committing them to hardware.



Integrity 150

Integrity 150 is a next-generation, solar-powered data transmitter and asset tracker that interfaces with industry-standard sensors over Bluetooth® and delivers Smart Data from the edge. Users can quickly program AI-enabled applications and computing solutions using the Edge Application Platform to process location and sensor data at the edge for low-cost Smart Data transmission. In addition, it delivers zero-maintenance ownership with the longest-lasting battery (10+ years) and shelf life available.

Asset Tracking Solutions

Low power, long life and equipped to perform



SmartOne Solar

SmartOne Solar is the only solar-powered asset certified and standardized for use in hazardous environments. It's virtually maintenance-free, with up to 10 years of usable service for tracking and monitoring. It's easy to install and features a wide range of reporting capabilities.



SmartOne C

SmartOne C is the market's most affordable and feature-rich tracker for locating fixed and mobile assets and transmitting sensor data. Line or battery-powered, it is a small, easy-to-mount unit that is ideal for sending GPS coordinates at long intervals and configurable for various frequency rates.



SPOT Trace®

SPOT Trace is a small, discrete tracker that tracks mobile assets by providing location pings as often as every 2.5 minutes for display on a customizable user dashboard. This easy-to-use turnkey device offers simplified tracking at the lowest cost.



STX3 Modem Module and Developer Kit

Affordable pricing, low power consumption and its compact build make the STX3 satellite transmitter a highly efficient device ready for integration in a wide variety of applications. The smallest surface mountable satellite modem from Globalstar, ideal for remote sensing, tracking and monitoring applications. Increased reliability through multiple transmissions at a lower cost. This OEM satellite transmitter sends one-way data messages via the Globalstar Satellite Network when integrated into a tracking or monitoring device.



Digital Mapping

Digital mapping that turns GPS location and data from the field into actionable visual intelligence. It provides high visibility of all in-field resources, geofencing that can trigger alerts to atypical changes, and advanced reporting capabilities.

Remote and Lone Worker Safety Solutions



SPOT X®

SPOT X Two-Way GPS Messengers connect to your smart phone via Bluetooth® wireless technology through the SPOT X app to access your contacts and communicate easily with colleagues. Users can check-in with managers, colleagues and family, or communicate directly with 24/7 search and rescue services in the event of an emergency.



SPOT Gen4™

Small, rugged, and easy to use, the SPOT Gen4 provides a simple turn-key communication option for remote and lone workers. Inexpensive and reliable, the Gen4 allows users the ability to report locations using pre-set messaging for check-in and have access to an SOS button to signal the need for emergency assistance.



SPOT 360°®

SPOT 360° is a compact, two-way satellite communicator designed to keep teams connected, visible, and protected even beyond cellular coverage. Combining messaging, GPS tracking, and emergency response in a single rugged device with up to 30 days of battery life*, 2x competitors, it's easy to deploy across individuals or entire teams while reducing downtime and maintenance.

The Simple Choice for Satellite Connectivity

Globalstar empowers its customers to connect, transmit, and communicate smarter – easily, quickly, securely, and affordably – offering reliable satellite and terrestrial connectivity services as an international telecom infrastructure provider. The Company's low Earth orbit (LEO) satellite constellation ensures secure data transmission for connecting and protecting assets, transmitting critical operational data, and saving lives for consumers, businesses, and government agencies across the globe. Globalstar's terrestrial spectrum, Band 53, and its 5G variant, n53, offer carriers, cable companies, and system integrators a versatile, fully licensed channel for private networks with a growing ecosystem to improve customer wireless connectivity, while Globalstar's XCOM RAN product offers significant capacity gains in dense wireless deployments. In addition to SPOT GPS messengers, Globalstar offers next-generation IoT hardware and software products for efficiently tracking and monitoring assets, processing smart data at the edge, and managing analytics with cloud-based telematics solutions to drive safety, productivity, and profitability.

For more information, visit www.globalstar.com.