

Satellite IoT Solutions for Construction

Reliable, Rugged, and Scalable Connectivity for the Modern Jobsite

Construction projects are increasingly reliant on digital tools for safety, asset tracking, and operational efficiency. Yet many worksites are in areas with unreliable or non-existent cellular coverage, leaving teams exposed to risk and assets vulnerable to loss or theft. Satellite-enabled IoT devices overcome these challenges, providing real-time visibility and communication in remote or urban environments where terrestrial networks can't keep up.

With rugged, intrinsically safe devices and affordable data services, satellite connectivity empowers construction leaders to protect high-value equipment, keep crews safe, and streamline workflows across regional, national, or global operations. Simple integration with leading telematics and platform providers ensures rapid deployment and measurable ROI.

Key Use Cases for Satellite in Construction



Heavy Machinery Tracking

Monitor the location and utilization of excavators, bulldozers, cranes, and other high-value assets in real time to reduce idle costs and improve fleet efficiency.



Portable Equipment Management

Track smaller, high-theft-risk tools and materials across multiple sites to minimize loss and optimize allocation.



Crew Safety and Lone Worker Protection

Equip remote or isolated workers with satellite handheld devices for instant SOS alerts and two-way messaging when cellular networks are unavailable.



Compliance and Site Security

Use geofencing and automated reporting to log asset movement, site entry, exit, and usage for safety and regulatory compliance.



Logistics and Supply Chain Visibility

Gain real-time insights into location and status of shipments, trailers, and site deliveries to keep projects on schedule.



Environmental Monitoring

Deploy satellite-enabled sensors for dust, noise, or hazardous gas monitoring on large-scale or remote construction projects.

Globalstar Powering Smart Construction

For asset tracking and personnel support, Globalstar offers rugged, reliable devices supported by our powerful, always-on satellite connectivity.

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.

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.

Ready to learn more? [Reach out](#) to our team of experts for more information.