

# Affordable IoT Beyond the Network's Edge

IoT connectivity and applications for transportation, energy, construction, agriculture, forestry, maritime and government

## Turning IoT Expectations Into Measurable Value

The global market for industrial IoT (IIoT) was sized at over \$334 billion in 2023 and is expected to swell to \$865 billion by 2030\*. That's a clear sign that companies expect high value from this digital transformation of their operations. The big question is how to turn expectation into reality.

## Keep It Simple

The key to success is avoiding oversized projects that stress the entire organization. The odds improve when companies deploy IoT applications that meet real needs affordably, reliably and immediately. If they align with industry standards, companies have the option of integrating them into comprehensive solutions in the future. And they will be doing it with applications that have already proven their value in the real world.

## Industrial IoT: What's The Value?

### Asset Tracking

- Protection against loss based on location data and geofencing
- Fast identification of unexpected activity signaling potential problems
- Better customer service based on up-to-date location information
- Reduced downtime and improved coordination of operations
- Better business performance from more efficient use of assets
- Improved supervision of remote workers

### Sensor Data

- Near real-time data on critical performance factors from mobile and fixed assets:
  - Engine performance
  - Fluid levels
  - Tire inflation
  - Pipeline pressure
  - Concrete curing
  - Environmental conditions
  - Soil conditions and wildfire danger
  - Analytics and data visualization to inform decision-making, reduce costs and boost performance

## Realm Cloud MDM

Realm Cloud MDM is a remote management platform for the Globalstar technology used in IoT and tracking applications. It provides everything you need to manage devices, configurations and users including:

- Managing business roles for platform admins and billing
- Adding, managing and removing users
- Creating and managing user business rules
- Creating and managing user subgroups
- Adding, managing, activating and deactivating devices

With Realm Cloud MDM, your team can focus on creating IoT applications and integrations, while leveraging our platform features for all the rest.

## Realm Edge Solutions

### Device And/& Modules

Transmit  
smart data  
from the edge



**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. In addition, it delivers zero-maintenance ownership with the longest-lasting battery (10+ years) and shelf life available.

Slash  
hundreds  
of hours of  
development  
time



The **RM200M 2-Way** module employs a single-stack chip design to provide seamless connectivity with advanced capabilities to track and monitor data with reliable connectivity. The **RM200M Development Kit** comes complete with 60 days of pre-authorized satellite usage time. Additionally, partners who opt for the Development Kit receive one-year access to Globalstar GitHub for source code.



The **ST150M** satellite modem module can be quickly and effectively integrated into technology to develop unlimited applications for a range of markets. Like the Integrity 150, the modem leverages industry leading BLE5, Nordic C, and comprehensive unified APIs, empowering rapid development and customization of firmware for more advanced smart data applications and enabling AI at the edge. The **ST150M Development Kit** includes ST150M module on a development board with satellite and GPS patch antennas, all mounted on an Arduino Shield, to develop and test technology designs before committing them to hardware.

## Asset Tracking Solutions

Low Power, Long Life And/& Equipped To Perform



### SmartOne Solar

SmartOne Solar is the only solar asset tracker certified as Intrinsically Safe with ATEX Zone 0 and HERO (Hazard of Electromagnetic Radiation to Ordinance) certifications for hazardous environments. Virtually maintenance-free with up to 10 years of usable service for tracking and monitoring, it's easy to install – requiring no harnesses, external power, or external antennas.



### GSatSolar

GSatSolar is a rugged, low-cost, ultra small, solar-powered device ideal for off-grid tracking of assets and remote IoT operations. The terminal is compact, easy to use and install, and is built for tough outdoor use.



### 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.

## Satellite Modems And Modules

Low Cost Developer Solutions



### ST100

ST100 gives developers a low-cost option for adding instant satellite communications capabilities to any OEM product for any market. Ultra-light in weight and compact, the ST100 can be used in a variety of simple tracking applications.



### STX3

STX3 offers affordable pricing, low power consumption and compact build. The smallest surface-mountable satellite modem from Globalstar, the STX is ideal for delivering remote sensing, tracking and monitoring data.

## Why Globalstar?

Globalstar empowers its customers to connect, transmit, and communicate in smarter ways – easily, quickly, securely, and affordably – offering reliable satellite and terrestrial connectivity services as an international telecom infrastructure provider. The Company's 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, offers 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.

To learn more about how Globalstar can benefit your business, contact us at [salesinfo@globalstar.com](mailto:salesinfo@globalstar.com).