

GLOBALSTAR® SATELLITE SOLUTIONS

Distributed & Supported by Prestige Logistics Ltd
Authorized Globalstar Dealer

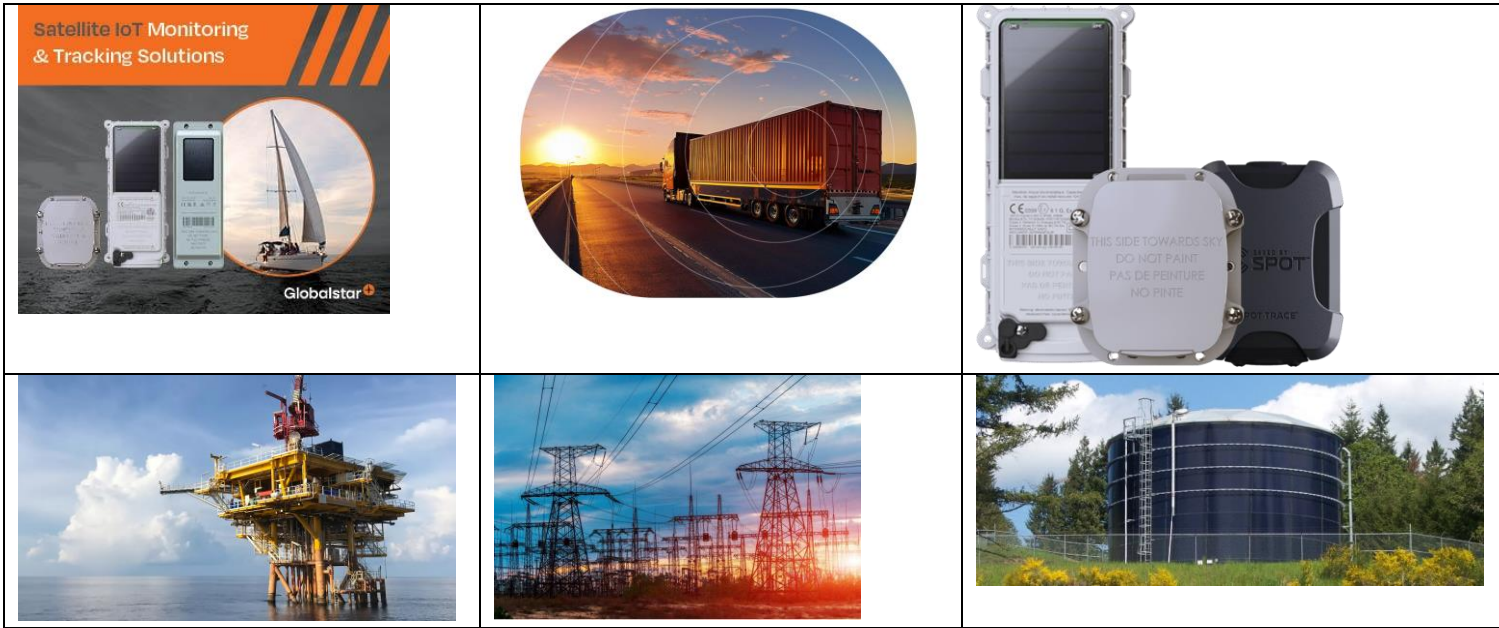
Reliable satellite tracking and communication solutions for government, enterprise, and agriculture—delivering connectivity where cellular networks fail.



Prestige Logistics Ltd is an authorized Globalstar dealer providing satellite-based tracking, communication, and IoT solutions across Jamaica and the wider Caribbean. We deliver sales, activation, deployment, and ongoing support tailored to mission-critical operations.

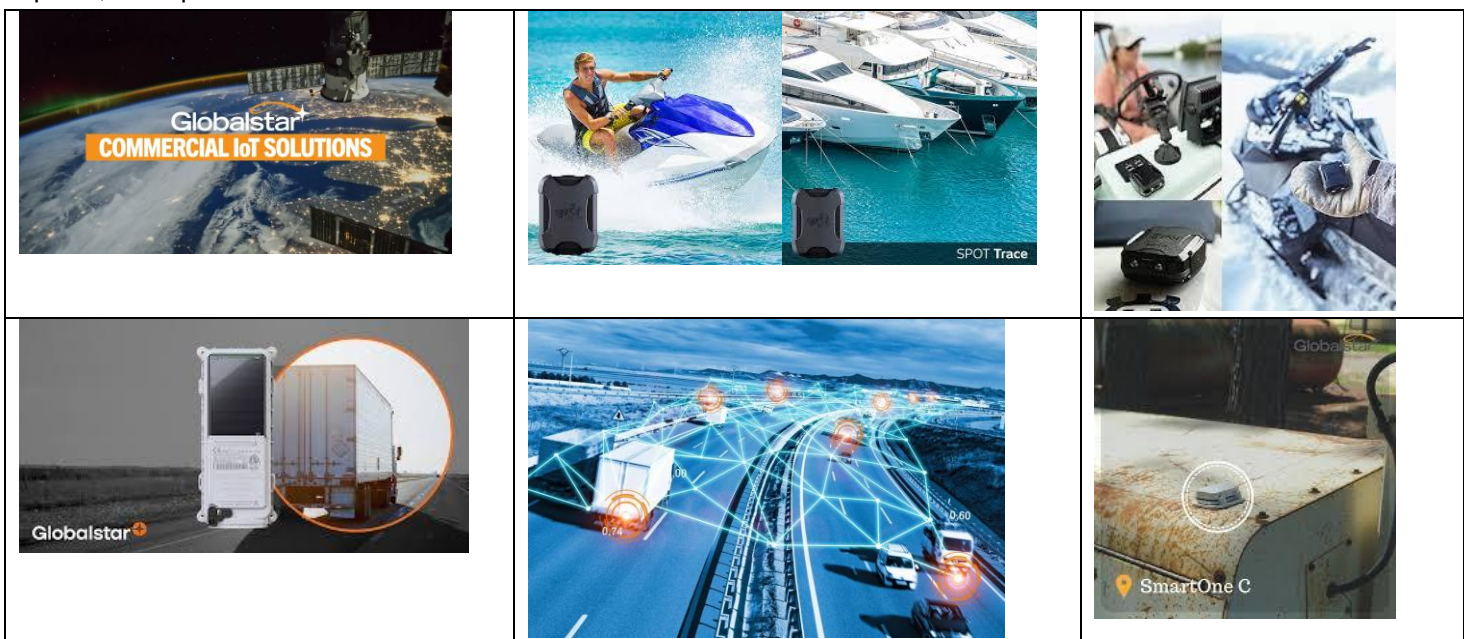
Government & Public Sector

Secure, resilient satellite solutions for asset tracking, border monitoring, disaster response, infrastructure oversight, and emergency operations.



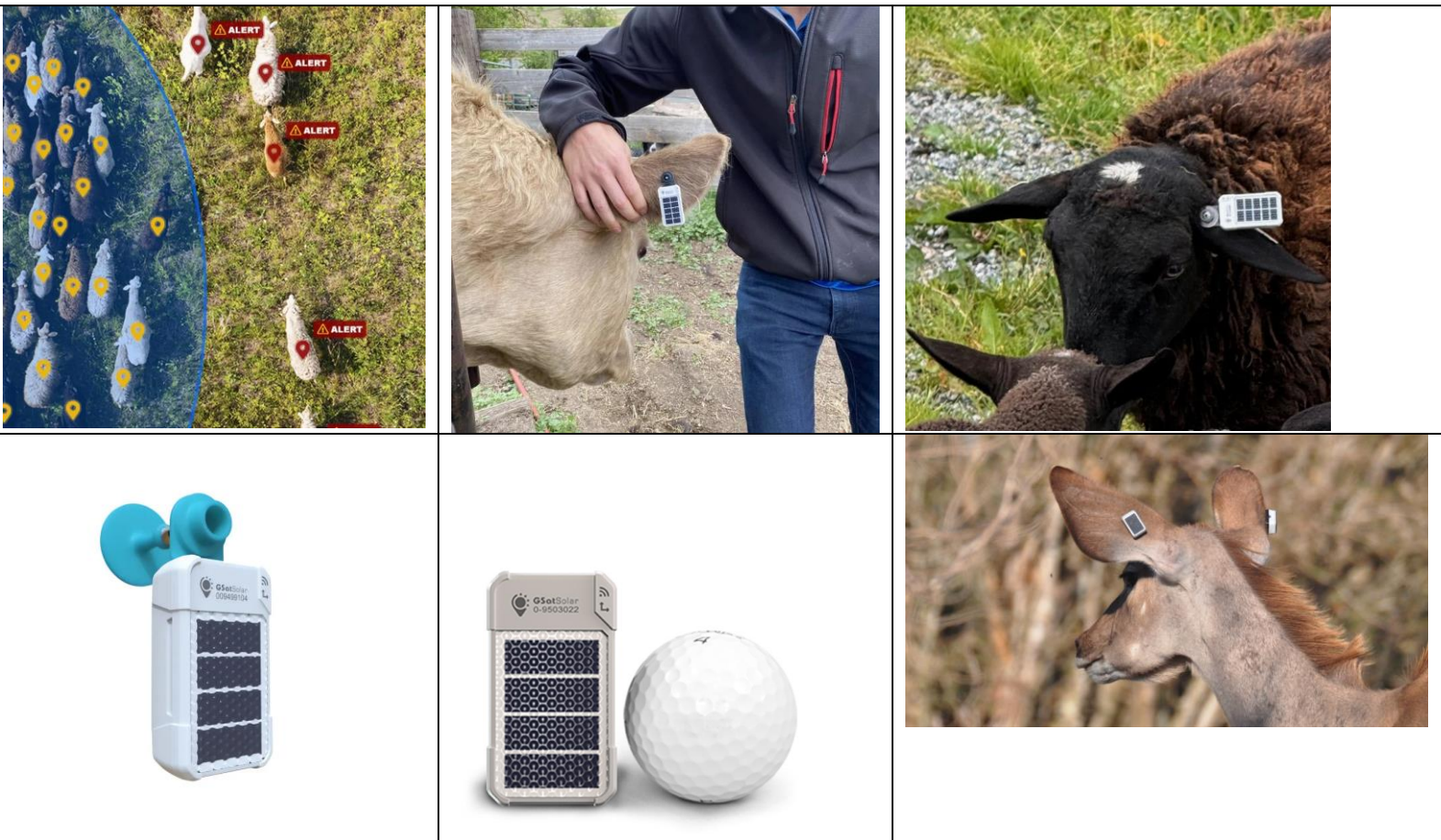
Enterprise & Industrial

End-to-end satellite connectivity for fleets, logistics, construction, energy, and remote assets—improving visibility, uptime, and operational control.



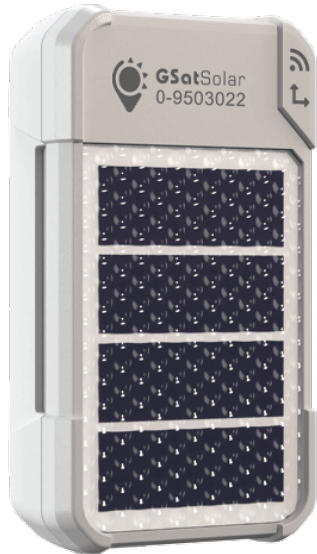
Agriculture & Livestock

Solar-powered tracking and monitoring for livestock, equipment, and remote farms, enabling smarter resource management and loss prevention.



GSatSolar

Solar-Powered Satellite Tracker



The GSatSolar is your solution for off-grid tracking of assets, remote IoT operations, and livestock tracking. The low-cost, compact, satellite-based terminal is easy to install and built for rugged outdoor use.

Powered by a solar panel that recharges the battery, GSatSolar is rugged, reliable enough to track anything that moves, and small and light enough to go unnoticed, regardless of where or how you mount it. The GPS tracking device easily mounts to any fixed or mobile asset for intelligent tracking, monitoring, and integration with wireless sensors through the configurable BLE Sensors interface.

 **Low Cost Asset Tracking**

The low price makes it easy, sensible and affordable to get started with any asset.

 **Compact Tracking Terminal**

Small and light enough to go unnoticed, regardless of where or how you mount it.

 **Easy To Use**

Start today with three easy steps:

- 1 Activate
- 2 Mount
- 3 Track

 **Powered By The Sun**

Each unit is powered by a solar panel that recharges the battery.

 **Tough Enough For Outdoor Use**

Rugged and reliable enough to track anything that moves.

 **Modular Mounting Options**

Whether it has four legs or four wheels, there is a mount that will work for you.

Components

- Nordic core processor
- Solar panel
- Rechargeable battery
- GPS receiver
- Embedded Satellite TX and GPS RX combined antenna
- Bluetooth® Low Energy with embedded antenna
- Serial connector
- FCC, ISED, CE modular certification

Features

- Compact tracking device
- Solar-powered
- Low-cost tracking
- Built tough for outdoor use
- Ready out-of-the-box
- Modular mounting options
- Satellite coverage



Dimensions

- Length: 57.1mm (2.25")
- Width: 31.8mm (1.25")
- Height: 17.8mm (0.70")

Weight

- Terminal: 22.2 grams (0.783oz)
- Animal Ear Tag: 4 grams (0.141oz)
- Multipurpose Clip: 5 grams (0.176oz)

Charging Method

- Solar

Solar Charge Rate

- .125 watts

Battery

- Type: Lithium Polymer
- Charge time: Depends on sun exposure
- Capacity: 150mAh
- Lithium content: 0.054grams(0.002oz)

Temperature

- Max (recommended): 50C
- Min (recommended): -30C

Altitude

- Range (recommended): 40,000 feet

Ingress Protection

- IP Rating: IP68 (certification pending)
- Dust tight – no ingress of dust, complete protection against contact
- Liquid immersion up to 1M depth for 30 minutes

Transmitters/Chipsets

- Transmitter Module
FCC ID: L2V-ST100
IC: 3989A-ST100
- GPS Chip: ZOE-M8
- BLE Chip: NRF 52832

GPS Receiver Type

- 72-channel u-blox
M8 engine
- GPS/QZSS L1 C/A
- GLONASS L10F
- BeiDou B1I
- Galileo E1B/C

SmartOne Solar

Solar Powered Asset Manager



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. In addition, the SmartOne Solar features a wide range of reporting capabilities with inputs available to monitor critical functions from engine run time to tank level and alarms.

Benefits

- ✓ Maintenance-free device as the power of the sun recharges its batteries providing up to 10 years of usable service
- ✓ Delivers reliable location reporting for assets deployed worldwide – providing security and improved efficiency for your business
- ✓ Easy to install as simple packaging requires no harnesses, external power or external antennas
- ✓ Wide range of reporting capabilities, including:
 - GPS location reporting in 4 modes
 - Stationary or in-motion reporting
 - Reduced messaging & theft recovery modes
 - Transmits data from external sensors
- ✓ User selectable speed and heading operation
- ✓ Two dry contact or wetted-voltage inputs available to manage engine run time, tank level or various alarm inputs

Configuration Software

- Configuration software tool operates on a PC via serial cable
- Bluetooth interface also available for configuration and firmware updates

Potential Applications

- **Transportation:** Monitor & track assets and fleet movements even in remote locations
- **Oil & Gas:** Aids in mobilizing & deploying high value assets in the field
- **Construction:** Determine if, when & where your valuable equipment is being used
- **Security:** Keep track of valuable mobile assets such as rail cars, propane tanks & AgTech
- **Marine:** Monitor & track high value assets, such as boats, barges and containers, at the dock and off-shore
- **Other industry uses:** Mining, forestry, government, fisheries, etc.

Operating Specifications

Dimensions

- 3.25 IN (H) x 7 IN (W) x 1.125 IN (D)
- 8.26 cm (H) x 17.78 cm (W) x 2.86 cm (D)

Weight

- 13.5 oz/385 g
- With optional mounting bracket 40.57 oz. (1150 g)

Operating Temperature

- -40°C to 65°C (-40°F to 149°F)**

Battery Type

- Built-in rechargeable NiMH batteries (non replaceable)

Input Voltage

- 10 to 48 VDC


Satellite Technology

- Global LEO Satellite operation using the Globalstar Satellite Network. See Globalstar website for Coverage Map.

Certifications

- FCC, ISED, CE, ATEX, UKCA, UKEX, ACMA, ANATEL, INMETRO, ENACOM, NOM, ASEP, ARECOM, NCC, ICASA, TELEC, KCC, NTC, ITU (GMPCS), Bluetooth® SIG

Intrinsic Safety Certifications

- ATEX/IECEx  II 1 G, Ex ia IIC T4 Ga
- For International Zone 0 applications, HERO

Standards

- North America cETLus:
 - Class I, Division 1, Groups A-D, T4
 - Class I, Zone 0, AEx ia IIC T4 Ga
- WEEE compliant
- GMPCS-MoU
- IP68/69K
- Mil-STD-810G for:
 - Immersion
 - Acidic atmosphere
 - Impact resistance
 - Humidity
 - Salt fog
 - Vibration

Accessories

- Globalstar USB Configuration Cable (Part No. 2030-0261-01)*
- Globalstar Universal Input Cable (Part No. 2030-0265-04)*
- Stainless Steel Mounting Bracket (Part No. 7000-0278-01)
- Bluetooth Dongle (Part No. 1950-0105-01)

Feature Set

Standard Messaging

- Wake, GPS locate, transmit location, resume sleep settings
- 12 programmable sleep time-of-wake settings

Alternative Reporting

- Supervisory reporting schedule triggered by alarm or motion
- Transmits GPS location on interval for programmed time or while alarm remains active

Integrated Accelerometer

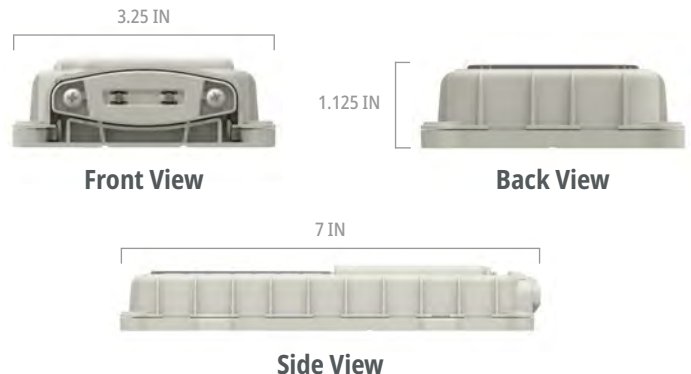
- Message on start and stop
- Engage interval override on motion for set time or while in motion

Change Of Location

- Theft-alert reporting based on distance moved
- Reduced messaging mode

Serial Communication Capability

- User defined messages
- Serial (TTL) I/O capability to interface with remote passive and smart sensors and deliver user-defined messages
- Bluetooth interface for configuration/firmware updates



*NOTE: Device is not intrinsically safe when any cable is connected.

**NOTE: The unit is certified intrinsically safe for hazardous environments over the temperature range of -40°C to 65°C (-40°F to 149°F).

SmartOne C

Satellite Asset Manager



The 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.

Designed for the intelligent management of fixed and mobile assets, the SmartOne C is a practical solution for a multitude of options including:

- 12 different reporting times
- Alternate reporting schedules
- Interval or 24-hour operation mode
- Low battery message

Track intermediate bulk containers, vehicles and boats as a solution to improve your asset's operating efficiency and security. The SmartOne C can be line-powered, or in the absence or interruption of external power, the SmartOne C will automatically switch to battery back-up. When using line-power, the user has maximum flexibility in messaging frequency allowing for regular monitoring of asset location.

The SmartOne C utilizes motion sensors, comparative GPS positions and custom configured sensors to gather and transmit asset status information. Each SmartOne C is configured to track its asset's specific needs and provide intermediate and emergency alerts by email or text (VAR software integration required).

Features

- **Quick installation:** Use industrial adhesives, brackets or screw mounts for installation
- **Operates** on 5V external line power, 8-24V regulator cable, or (4) AAA Lithium batteries
- **Automatic alerts:** Change of location sensing sends alerts if asset moves outside of pre-determined range
- **Messaging reduction mode:** Reduced satellite messaging if asset remains in same location for a pre-determined period of time
- **Hardware on/off feature:** Allows the unit to initiate GPS re-centering functionality
- **Accepts serial signals (TTL)** from external inputs

Configuration Software

Software configuration tool easily installs on Windows PCs

Benefits

- ✓ **Asset-ready design:** Allows for easy installation and field management without the need for antennas or external power
- ✓ **No need to purchase** expensive proprietary batteries for replacement

SmartOne C Setup Includes

- 12 different reporting times
- Interval or 24-hour operation mode
- Alternate reporting schedules
- Low battery message
- Motion Sensor/Vibration parameter and scheduling
- Contact closure parameters
- Diagnostic messages

Operating Specifications

Dimensions

- 2.7 IN (H) x 3.25 IN (W) x 1 IN (D) (with brackets)

Weight

- 3.6oz/102g (with 4 batteries and mounting hardware)

Operating Temperature

- -30° to +60° C Note: The unit shall remain operational over the -40° to +85°C range, though may experience battery life and RF signal degradation

Line Power

- 5v DC or 8-24V Input Cable with regulator

Battery Type

- (4) AAA Energizer Ultimate Lithium (L92) Included 1.5V lithium
- Provides 1.5+ years of battery life
- Removes the need to purchase expensive proprietary batteries for replacement

Certifications

- FCC, ISED, CE, UKCA, ACMA, ANATEL, ENACOM, NOM, MTC, ARECOM, NCC, ICASA, TELEC, KCC, NTC, ITU (GMPCS)

Standards

- SAE J1455 MIL STD 810
- NEMA 4X / IP68
- RoHS Compliant

Satellite Technology

- Global LEO Satellite operation using the Globalstar Satellite Network. See Globalstar website for Coverage Map.

Accessories

- USB Configuration Cable (Sold Separately)
- Combined Serial, 5v LP, I/O Cable (Sold Separately)
- Combined Serial, 8-24V Dry Contact Input Cable, I/O Cable (Sold Separately)

Feature Set

Standard Messaging

- Wake, GPS locate, transmit location, resume sleep
- 12 programmable sleeptime-of-wake settings

Integrated Accelerometer

- Message on start and stop
- Engage interval override on motion for set time or while in motion

Alternative Reporting

- Supervisory reporting schedule triggered by alarm or motion
- Transmits GPS location on interval for programmed time or while alarm remains active change of location

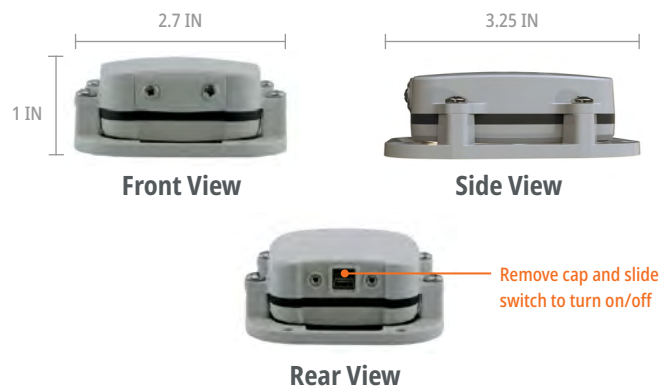
Change Of Location

- Theft-alert reporting based on distance moved
- Reduced messaging mode

Serial Communication Capability

- User defined messages
- Serial (TTL) I/O capability to interface with remote passive and smart sensors and deliver user defined messages

Technical Specifications





Globalstar™

SPOT Trace

Track anything. anytime. anywhere.®



SPOT Trace is a small, discrete mobile asset tracker that can provide 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.

Features

- ✓ Monitor valuable assets and receive a text/email message when movement is detected
- ✓ Receive frequent updates: choose 2½, 5, 10, 30 or 60 minute intervals (based on purchased tracking plan)
- ✓ Satellite communications network allows SPOT Trace to work on or off-the-grid
- ✓ Small, easy-to-mount size (options: reversible mounting bracket, industrial double sided tape, adhesive grip pad or adhesive velcro strips)
- ✓ View the asset's location and tracking points online

Multi-Purpose Design

- Compact, inconspicuous design allows device to blend in seamlessly with surroundings
- Made from durable, long-lasting materials
- Lightweight, goes anywhere

Data Management and Mapping Services

Our Data Management and Mapping Services provide automated monitoring and management at a glance with near real-time updates giving you visibility into an entire operation. Maintain and sustain operational efficiencies while strengthening and automating internal processes for continued business growth with the use of SPOT My Globalstar or SPOT Mapping services.

- Live and Historical Tracking
- Reporting
- Live Alerts
- Geofencing
- Grouping

Included Mounting Options

- Reversible mounting bracket
- Industrial strength double-sided tape
- Adhesive grip pad
- Adhesive hook and loop tape

Power Options

- (4) AAA Energizer® Ultimate Lithium 8x batteries (L92) *included*
- (4) AAA Energizer® NiMH rechargeable batteries (NH12) *sold separately*
- Line power with a 5v USB connection (NOT waterproof) *included*
- Waterproof line power with a custom USB cable *sold separately*

Specifications

Height

- 2.02 in (5.13 cm)

Width

- 2.69 in (6.83 cm)

Thickness

- 0.95 in (2.14 cm)

Weight

- 3.1 oz (87.9 g)

Operating Temp

- -22 °F to 140 °F (-30 °C to 60 °C)

Operating Altitude

- -328 ft to 21,320 ft (-100 m to 6,500 m)

Humidity Rated

- MIL-STD-810F, Method 507.3, 95% to 100% cond.

Vision Rated

- Per SAE J1455

Waterproof Rated

- IPX7 (1 m for up to 30 minutes)

Spot Product Family



SPOT X

with Bluetooth® wireless technology
2-Way Satellite Messenger



SPOT Gen4™

Satellite GPS Messenger

Integrity 150

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. Users can quickly program AI-enabled applications and computing solutions using the Realm Enablement Suites, Edge Application Platform to process location and sensor data at the edge for low-cost Smart Data transmission.

Edge Application Platform

Quickly program AI applications for processing Smart Data. 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. The standards-based architecture means that new features and platform upgrades can reliably access the same hardware interfaces, APIs, and applications as previous versions with no specialized coding.

The Platform provides access to the firmware and base applications that run the devices and an extensive and growing library of applications to interface with sensors measuring temperature, humidity, magnetic fields, angular position, motion, proximity, and other metrics.

Benefits

- Maintenance-free, solar powered device providing up to 10+ years of usable service
- Delivers reliable worldwide location reporting – providing security and improved efficiency
- Simple application – requires no harnesses, external power or antennas
- User selectable speed and heading operation
- Industry standard BLE encryption plus cloud-based key management plus configurable BLE sensor security
- Magnetic tamper switch
- Wide range of reporting capabilities, including:
 - Fixed or interval GPS location reporting
 - Change of location and motion alerts
 - Reduced messaging and theft recovery modes
 - Customizable messages
 - Broad range of data transmission capabilities

Accessories

- Stainless Steel Mount (Part No. 1850-0410-01)
- Bluetooth Dongle (Part No. 1950-0105-01)

Realm Enablement Suite

- **Subscriber Management** – Provisioning, connectivity, and configuration
- **Device Management** – Single interface, device inventory, and common APIs
- **Health Monitoring** – Pro-active device health monitoring, and superior support
- **Application Enablement Platform** – Leverage industry leading BLE, Nordic C, and comprehensive unified APIs
- **Applications** – Extensive library of application software
- **Common Architecture** – Simplified design with common hardware and software architecture
- **BLE** – Sophisticated libraries for sensors, updates, configuration, and data

Potential Applications

- **Transportation:** Monitor and track assets and fleet movements even in remote locations
- **Oil and Gas:** Aids in mobilization and deployment of high value assets in the field
- **Construction:** Determine if, when and where equipment is being used
- **Security:** Keep track of mobile assets such as rail cars, propane tanks and AgTech
- **Maritime:** Monitor and track high value assets, such as boats, barges and containers, at the dock and offshore
- **Other industry uses:** Mining, forestry, government, fisheries, and many more

Feature Set

Standard & Customizable Messaging

- Wake, GPS locate, transmit location, resume sleep settings
- 4 standard message types can send up to 144 bytes of data
- Modular message types with up to 144 bytes of data
- Configurable message priority
- Configurable message retry profile
- Prioritized message queue
- Interval or time-of-day messaging

BLE5

- Secure BLE Config service
- Industry standard encryption
- Cloud-based key management
- Configurable BLE sensor security

Tamper Detection

- Magnet-based

Integrated Accelerometer

- Message on start and stop
- Engage interval override on motion for set time or while in motion

Alternative Reporting

- Supervisory reporting schedule triggered by alarm or motion
- Transmits GPS location on interval for programmed time or while alarm remains active

Change Of Location

- Theft-alert reporting based on distance moved
- Reduced messaging mode
- REST APIs
- Secure cloud store-and-forward

Technical Specifications

Dimensions

- 10.3W9" (L) x 3.38" (W) x 1" (H)
(264 mm x 86.1 mm x 25.4 mm)

Weight

- 14.2 oz/402 g
- With optional mounting bracket 32.02 oz. (908 g)

Operating Temperature

- -40° F to 185° F (-40° C to +85° C)

Satellite Technology

- Global LEO Satellite operation using the Globalstar Satellite Network. See Globalstar website for Coverage Map

Certifications

- FCC, ISED, CE, UKCA
- PENDING: ANATEL

Standards

- IP68/69K
- IEC 60945 (Maritime)
- MIL-STD-810G for:
 - Immersion
 - Dust
 - Water spray
 - Thermal shock
 - Mechanical shock
 - Rail impact
 - Vibration (rail, truck)



RM200M Two-Way Modem Module Development Kit

The Power Of Globalstar's LEO Satellites Paired With Your Innovative Solution.

The RM200M satellite modem module can be quickly and effectively integrated into technology to develop unlimited applications for a range of markets. 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 at the edge.



An RM200M Dev Kit consists of a RM200M module mounted on an Arduino Rev 3 Shield as well as a combined satellite and GPS antenna Puck. This kit allows partners to develop and test technology designs before committing them to hardware. 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.

All customer-designed RM200M end-products require Globalstar Network Certification. We recommend you contact our Globalstar Product Certification Team as early as possible in your development cycle.

Please contact your Regional Sales Manager to begin the process.

Automate Processes At The Edge

The onboard processing capacity of Realm Edge devices like the RM200M makes it possible to fully automate remote processes to save money, increase productivity, improve margins and enhance safety. The module contains 10 configurable Input/Outputs (I/Os) that interface with sensors and actuators. This combination of custom software and powerful hardware can not only detect change but take immediate and high-value action in response.

Next Generation Developer Solution

The same software developed for the RM200M can automatically dispatch smart messages over the Globalstar Satellite Network to alert managers to the issues and supply data to management systems. Seven of the device's inputs can be configured as analog, which allows them to measure and report changes per connected analog sensor.

Key Features

- Globalstar RM200M
- Globalstar's Edge Application Platform
- High performance Nordic 52840 SoC
- GPS and 3 axis accelerometer
- Integrated voltage regulation
- 2.4 GHz chip antenna for Bluetooth®
- USB interface for DC input
- USB client interface
- SMA connectors for GPS, satellite transmit, satellite receive
- Current shunt
- Line DC input
- NFC connector
- Analog adjust potentiometer
- User LEDs and buttons
- Mobile App available for iOS and Android
- Arduino Uno Rev3 form factor

Satellite Payload

- Mobile originated messaging up to 144 bytes of data
- Mobile terminated messaging up to 128 bytes of data
- Configurable message priority
- Prioritized message queue
- Raw and truncated messaging, legacy and acknowledgeable
- Interval or time-of-day messaging

Technical Specifications

Dimensions

- Dev Board 6.905" (L) x 2.80" (W) (175.4 mm x 71.1 mm)

Operating Temperature

- -40 °F to 185 °F (-40 °C to 85 °C)

Satellite Technology

Operates over the Globalstar LEO Satellite Network

Edge Application Platform

Leveraging industry leading BLE, Nordic C, and comprehensive unified APIs, the Globalstar Application Enablement Platform provides an extensive library of application software and sophisticated libraries for sensors, updates, configuration, and data. It empowers rapid development and customization of firmware for more advanced smart data applications.

The Edge Application Platform easily integrates with IIoT (Industrial Internet of Things) platforms and proprietary enterprise applications via APIs enabling AI at the edge.

- **Subscriber Management** – Provisioning, connectivity, and configuration
- **Device Management** – Single interface, device inventory, and common APIs
- **Health Monitoring** – Pro-active device health monitoring, and superior support
- **Application Enablement Platform** – Leverage industry leading BLE, Nordic C, and comprehensive unified APIs
- **Applications** – Extensive library of application software
- **Common Architecture** – Simplified design with common hardware and software architecture
- **BLE** – Sophisticated libraries for sensors, updates, configuration, and data

RM200M Two-Way Modem Module

The Power Of Globalstar's LEO Satellites Paired With Your Innovative Solution.



RM200M Two-Way Globalstar LEO satellite module employs a single-stack chip design to provide seamless connectivity with advanced capabilities to track and monitor data with reliable connectivity. 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.

Single Chipset

Globalstar's new architecture leverages a single stack chipset to provide two-way LEO satellite connectivity. This unique design offers advantages in hardware cost-effectiveness and network functionality. A single SKU also provides VARs, systems integrators and enterprises with simplified management of parts, firmware, product configuration profiles and support, as well as reducing personnel training needs.

Simplified Solution Development For Direct To IoT Devices

Bring complete IoT products to market faster and reduce programming costs. The Realm Edge Application Platform provides access to the RM200M firmware to configure applications that run the edge systems and an extensive and growing library of APIs to interface with sensors. Also included are hardware interfaces allowing full driver/hardware abstraction and APIs that give your custom applications access to device capabilities.

Bluetooth Sensor Network

The Bluetooth® low energy 5.4 standard enables easy pairing of sensors to the RM200M module and simplifies sensor management. Globalstar has pre-approved a series of Ela sensors for compatibility with multimode systems. Customers can also integrate their own Bluetooth® sensors via the Realm Edge Application Platform.

Product Features

Features

- Low-power, single-stack module
- Zero Touch Provisioning, a groundbreaking feature for automating and streamlining IoT device configuration for cloud connectivity
- Bluetooth® 5.4
- Integrated GPS receiver
- Accelerometer
- Realm Edge Applications Platform
- Realm Cloud device and data management

Satellite Network/Services

- Globalstar LEO network

Satellite Bands

- L, S bands

Satellite Message Size

- Mobile originated: 9 – 144 bytes
- Mobile terminated: 9 – 128 bytes

Operating Temperature Range

- -40C to +85C

Dimensions (W x H x D)

- 28.3mm x 50.8mm x 3.6mm

Weight

- 0.38 oz (11 gm)

Certification & Conformity

- FCC Parts 15, 25 (**22, 24, 27)
- Bluetooth® SIG
- ISED
- **ITU GMCPS
- **ANATEL

** In Progress

Peripherals

- UART (1)
- USB (1)
- I2C (1)
- SPI (1)
- Configurable input/output (10)
- Analog input (7)

GNSS

- 72-channel GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1I, Galileo E1B/C, SBAS L1 C/A, WAAS, EGNOS, MSAS, GAGAN

Current Draw

- Sleep current – 60uA at room temperature
- Active mode – 61 mA
- Tx – 324 mA
- Rx – 134mA
- 3.3 VDC applies to all of the above

Horizontal Position Accuracy

- 2.5m

Bluetooth

- Bluetooth® low energy 5.4

Sensors

- Up to 10 Bluetooth® low energy sensor nodes

Accelerometer

- 3-axis MEMS
- ±2g, ±4g, ±8g, ±16g full scale
- 6D orientation detection

Globalstar Network Certification

Solutions developed with this module will require Globalstar Network Certification. Process times for certification may vary so reach out to your sales representative today to get started.

ST150M Modem Module and Developer Kit

Next Generation Developer Solution



The ST150M satellite modem module can be quickly and effectively integrated into technology to develop unlimited applications for a range of markets. 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.

An ST150 Dev Kit provides an ST150M module on a dev board with satellite and GPS patch antennas, all mounted on an Arduino Shield, to develop and test technology designs before committing them to hardware. The ST150M Development Kit comes with a pre-installed module and 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.

All customer-designed ST150M end products require Globalstar Network Certification. We recommend you contact our Globalstar Product Certification Team as early as possible in your development cycle. Please contact your Regional Sales Manager to begin the process.

Automate Processes at the Edge

The onboard processing capacity of Realm Edge devices make it possible to fully automate remote processes to save money, increase productivity, improve margins and enhance safety. The module contains 24 configurable Input/Outputs (I/Os) that interface with sensors and actuators. This combination of custom software and powerful hardware can not only detect change but take immediate and high-value action in response, such as –

Preventing Pipeline or Process Equipment Failure

If a sensor detects a problematic rise or fall in pressure, Edge devices can trigger local audible and visible alerts, open or close valves and remotely shut down pumps as needed.

Avoiding Toxic Releases

When sensors detect dangerously high water in a tailing or wastewater pond, edge devices can turn on a pump to lower the level, trigger alarms and trigger more complex actions.

Managing Irrigation Remotely

If soil moisture sensors in irrigation equipment detect low moisture, edge devices can turn on irrigation pumps and save the need for a visit to the site.

Stopping Catastrophic Engine Breakdowns

When sensors monitoring key engine factors detect a dangerous change, such as a sudden drop in oil pressure, edge devices can trigger alarms and, after a pause for human interaction, switch off the engine.

The same software developed for the Edge device can automatically dispatch smart messages over the Globalstar Satellite Network to alert managers to the issues and supply data to management systems. Eight of the devices' 24 I/Os can be configured as analog, which allows them to measure and report changes per connected analog sensor.

Key Features

- Globalstar ST150M
- Globalstar's Application Enablement Platform
- Globalstar satellite ASIC transmitter
- High performance Nordic 52840 SoC
- GPS and 3 axis accelerometer
- Integrated voltage regulation
- 2.4 GHz Chip Antenna for Bluetooth®
- Shield for GPS, Satellite Antennas
- USB interface for DC input
- USB client interface
- u.fl connectors: GPS, ASIC
- Current shunt
- Line DC input
- NFC connector
- Analog Adjust potentiometer
- User LEDs and buttons
- Mobile App available for iOS and Android
- Arduino Uno Rev3 form factor

Satellite Payload

- Four standard message types can send up to 144 bytes of data
- Modular message types with up to 144 bytes of data
- Configurable message priority
- Configurable message retry profiles
- Prioritized message queue
- Interval or time-of-day messaging

Technical Specifications

Dimensions

- Dev Board 5" (L) x 2.57" (W) x 0.45" (H)
(127 mm x 65 mm x 11 mm)
- Antenna Shield 2.8" (L) x 2.57" (W) x 0.83" (H)
(71 mm x 65 mm x 21 mm)

Operating Temperature

- -40 °F to 185 °F (-40 °C to 85 °C)

Satellite Technology

- Operates over the Globalstar Satellite Network

Edge Application Platform

Leveraging industry leading BLE, Nordic C, and comprehensive unified APIs, the Globalstar Application Enablement Platform provides an extensive library of application software and sophisticated libraries for sensors, updates, configuration, and data. It empowers rapid development and customization of firmware for more advanced smart data applications.

The Edge Application Platform easily integrates with IIoT (Industrial Internet of Things) Platforms and proprietary enterprise applications via APIs enabling AI at the edge.

- **Subscriber Management** – Provisioning, connectivity, and configuration
- **Device Management** – Single interface, device inventory, and common APIs
- **Health Monitoring** – Pro-active device health monitoring, and superior support
- **Application Enablement Platform** – Leverage industry leading BLE, Nordic C, and comprehensive unified APIs
- **Applications** – Extensive library of application software
- **Common Architecture** – Simplified design with common hardware and software architecture
- **BLE** – Sophisticated libraries for sensors, updates, configuration, and data



Dev Board



Antenna Shield

STX3 Development Kit

Satellite Modem



The STX3 Development Kit with Bluetooth® Low Energy w(BLE) is an easy way to get set up and send your custom messages over the Globalstar Satellite Network. An accompanying mobile app (compatible with iOS and Android) allows users to issue commands to send accelerometer data, humidity and/or temperature readings from onboard sensors. Through the mobile app, users can also manually send user-defined custom data via the STX3 module through the Globalstar Satellite Network.

The STX3 Development Kit itself comes with 60 days of pre-authorized satellite usage time. All customer-designed end products designed with the STX3 Module will require Globalstar Network Certification. We recommend you contact our Globalstar Product Certification Team as early as possible in your development cycle. Please contact your Regional Sales Manager to begin the certification process.

Key Features

- Globalstar STX3 satellite modem
- High performance BLE processor
- 2.4GHz chip antenna for Bluetooth®
- USB interface
- Sensors: accelerometer, humidity, and temperature
- Mobile App available for iOS and Android
- Sample code and schematics available upon request
- Interfaces: BLE, USB, UART
- Analog Adjust potentiometer
- User LEDs and buttons
- Expansion header

Technical Specifications

Dimensions

- 4.25" x 4.25" x 0.75"

Operating Temperature

- 0 to 50°C

Operating Temperature

- Operates over the Globalstar Satellite Network

NOTE: The STX3 Dev Kit is for evaluation purposes only; it is not FCC approved for resale. Review User Manual for further regulatory information.

STX3

Satellite Modem



Globalstar offers the STX3 Satellite Transmitter Unit to help customers design and build compact and efficient communications devices. Using the Globalstar Satellite Network, the STX3 allows information to be transmitted from areas well beyond the reach of reliable cellular coverage around the globe.

The STX3 provides additional opportunities to integrate satellite connectivity into products used for vehicle and asset tracking, remote data and data logger reporting that have limited size requirements. Affordable pricing, low power consumption and its small size make the STX3 satellite transmitter a highly efficient device ready for integration in a wide variety of applications.

The STX3 is a low cost, OEM module which sends one-way data messages via the Globalstar Satellite Network when integrated into a tracking or monitoring device. The STX3 is ideal for delivering remote sensing, tracking and monitoring applications.

Advantages and Features

- ✓ **Increases** reliability through multiple transmissions
- ✓ **Global** coverage
- ✓ **Low** power consumption
- ✓ **Surface** mount design
- ✓ **Versatile use:** Module can be integrated for use in a wide range of applications including liquid petroleum gas (LPG) tanks, water tanks, pipelines, farm machinery, livestock tags, electricity, meters, cars, trucks, boats and sea or land containers

Technical Specifications

Dimensions

- 1130 mils x 810 mils (28.70mm x 20.57mm)
Overall thickness of the board with components/shields is 163 mils (4.13 mm)

Weight

- 0.14 oz. (3.97 g)

Operating Temperature

- -30°C to 85°C

Certifications

- FCC CFR Part 25 Modular Certification, ISED, Anatel, CE Tested

Technology

- Operates over the Globalstar Satellite Network

Operational Modes

Sleep Mode

- Vcc is applied to the unit, no transmissions are pending, no serial activity

Active Mode

- The STX3 is active and responding to the serial port, but is not transmitting

Standby Mode

- The STX3 is inactive between transmission burst, but is not transmitting

Transmit Mode

- The unit is transmitting an RF packet

When designing using the STX3, provisions should be made for regulatory testing including continuous RF testing for spectral measurements and power measurements.

NOTE: All products utilizing the STX3 module require Globalstar Network Certification. We recommend you contact the Globalstar Product Certification Team as early as possible in your development cycle.

Parameter	Test Conditions	Min	Typ	Max	Unit
TX output power	25°C, Vcc=Vrf=3.3 volts, 50 ohm load	18.75	19.0	19.75	dB
Transmit mode supply current	-30° to +85° C, Vcc=Vrf=3.3 volts, 50 ohm load	325	390	475	mA
Active mode supply current	-30° to +85°C, Vcc = 3.3 volts	2	2.25	3	mA
Standby mode supply current	-30° to +85°C, Vcc = 3.3 volts	3	12	55	uA
Sleep mode supply current	-30° to +85°C, Vcc = 3.3 volts	3	7	50	uA

Sales, Activation & Support

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