Global Tracking Operations Corporation

Any Asset, Anywhere

Connect More with Multiple Location, Power, and Connectivity Solutions

Indoor/Outdoor Location

Wired and Battery-Powered

GPS, Wi-Fi MAC Address Scanning, Cell Tower Positioning

IoT Data Loggers for Remote Sensor Monitoring

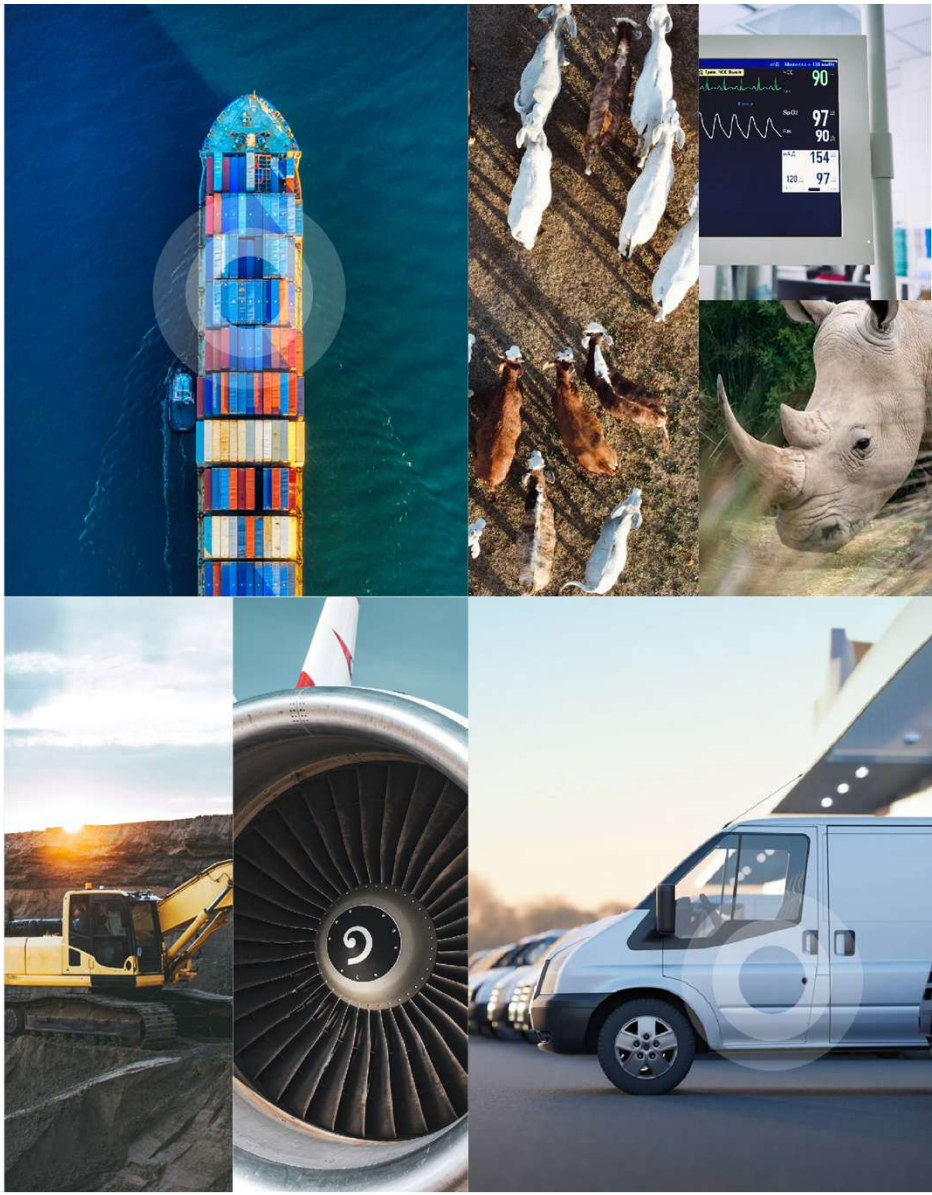
Bluetooth® Tags, Sensors, and Gateways

Cellular 4G/5G LTE-M (Cat-M1)/NB-IoT with Network Roaming

Cellular 4G LTE Cat 1bis with 2G Fallback for Global Roaming

LoRaWAN® 868, 902-928 MHz

Iridium and IoT Satellite



Global Tracking Operations Corporation

The Power to Do More

Our manufacturer is a pioneer in battery-powered IoT asset tracking, continuously setting the bar for innovation, battery life, and performance.

With over 23 years of 'lessons learned,' they design and manufacture the longest-life battery-powered asset tracking hardware in the world for businesses that demand more from their devices.

- Indoor/Outdoor Location
- Movement Detection
- Theft Recovery
- Bluetooth® Gateways
- Onboard Geofencing
- Impact and Tip Detection
- Rotation Counting
- Run Hour Monitoring
- And More!

Yankee Family

Smallest form factor. Collar housing available for securing devices to animals.

85 x 63 x 24 mm
(3.35 x 2.48 x 0.94 in)

Bravo Family

Lowest cost with a thin form factor. Magnetic activation and tamper detection.

149 x 51 x 21 mm
(5.9 x 2.0 x 0.8 in)

Oscar Family

Our most popular device family. Perfect balance between size and battery life.

108 x 86 x 31 mm
(4.25 x 3.39 x 1.22 in)

Romeo Family

For use cases where extremely long battery life and/or aggressive (second-by-second) tracking performance is required. Magnetic tamper detection.

224 x 91 x 41 mm
(8.82 x 3.58 x 1.61 in)

Mike Family

Newest device family, featuring a slim, compact form factor. First to integrate 'Fusion' location technology. Magnetic activation and tamper detection.

154 x 66 x 21 mm
(6.1 x 2.6 x 0.83 in)

Battery-Powered

Cellular 4G/5G
LTE-M (Cat-M1)/NB-IoT

	Bravo GPS	Yankee3 GPS	Oscar3 GPS	Oscar3 Bluetooth GPS	Mike GPS	Romeo3 Bluetooth GPS
Connectivity	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT
Environment	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Location Technologies	GNSS Cell Tower Location	GNSS Cell Tower Location	GNSS Cell Tower Location	GNSS Cell Tower Location	GNSS Cell Tower Location	GNSS Cell Tower Location
Bluetooth® Gateway	-	-	-	Yes	-	Yes
Housing Size	149 x 51 x 21 mm (5.9 x 2.0 x 0.8 in)	85 x 63 x 24 mm (3.35 x 2.48 x 0.94”)	108 x 86 x 31 mm (4.25 x 3.39 x 1.22”)	108 x 86 x 31 mm (4.25 x 3.39 x 1.22”)	154 x 66 x 21 mm (6.1 x 2.6 x 0.83”)	224 x 91 x 41 mm (8.82 x 3.58 x 1.61”)
Magnet	Magnetic Activation and Tamper Detection	-	-	-	Magnetic Activation and Tamper Detection	Magnetic Tamper Detection
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof
Accelerometer	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection
Batteries	2 x AA Lithium	3 x AAA Lithium	3 x AA Lithium or LTC	3 x AA Lithium	3 x AA Lithium	2 x D LTC
Battery Life Estimates*						
Once Daily Location Updates	8 years	10 years	10 years	10 years	10 years	20 years
Movement-Based Location Updates**	3 years	2 years	6 years	6 years	5 years	10 years
Hourly Location Updates	2 years	1.5 years	3.5 years	3.5 years	4 years	10 years

*Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, battery selection, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.

**Movement-based estimates are based on 2 hours of movement, occurring 5 days a week, with default tracking parameters (location updates every 3 minutes and uploads every 30 minutes). Devices can be configured to provide more frequent location updates when the asset is in motion which will impact battery life.

Global Tracking Operations Corporation

Indoor/Outdoor Asset Management on One Device

Track and manage your assets as they move across environments.

Multi-Technology Location Tracking

Performing where GPS-only devices fail, our manufacturer's Indoor/Outdoor devices support multiple location technologies (GNSS Scanning, Wi-Fi MAC Address Scanning, and Cell Tower location), to enable seamless Indoor-to-Outdoor asset tracking and management on one device.

Location 'Scanning' with Cloud-Based Solving

Unlike most GNSS asset tracking devices in the market today that conduct location calculations on-device, our Indoor/Outdoor devices employ a unique approach by offloading the location processing workload to the cloud to significantly reduce power consumption and extend battery life.

Indoor/Outdoor Battery-Powered

Cellular 4G/5G
LTE-M (Cat-M1)/NB-IoT

	Bravo Core	Bravo Edge	Yankee Edge	Oscar Edge Bluetooth	Mike Fusion
Connectivity	NB-IoT Only	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT	LTE-M and NB-IoT
Environment	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Location Technologies	Wi-Fi Scanning Cell Tower Location	GNSS Scanning Wi-Fi Scanning Cell Tower Location	GNSS Scanning Wi-Fi Scanning Cell Tower Location	GNSS Scanning Wi-Fi Scanning Cell Tower Location Bluetooth Beaconing	Full GNSS Wi-Fi Scanning Cell Tower Location
Cloud-Based Location Solving	Yes	Yes	Yes	Yes	Yes
Bluetooth® Gateway	-	-	-	Yes	Yes
Housing Size	149 x 51 x 21 mm (5.9 x 2.0 x 0.8 in)	149 x 51 x 21 mm (5.9 x 2.0 x 0.8 in)	85 x 63 x 24 mm (3.35 x 2.48 x 0.94”)	108 x 86 x 31 mm (4.25 x 3.39 x 1.22”)	154 x 66 x 21 mm (6.1 x 2.6 x 0.83”)
Magnet	Magnetic Activation and Tamper Detection	Magnetic Activation and Tamper Detection	-	-	Magnetic Activation and Tamper Detection
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof
Accelerometer	Movement and Impact Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection
Batteries	2 x AA Lithium	2 x AA Lithium	3 x AAA Lithium	3 x AA Lithium	3 x AA Lithium
Battery Life Estimates*					
Once Daily Location Updates	10 years	10 years	10 years	10 years	10 years
Movement-Based Location Updates**	4.5 years	5 years	3 years	7 years	5 years
Hourly Location Updates	3 years	3 years	2 years	4.5 years	4 years

*Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, battery selection, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.

**Movement-based estimates are based on 2 hours of movement, occurring 5 days a week, with default tracking parameters (location updates every 3 minutes and uploads every 30 minutes). Devices can be configured to provide more frequent location updates when the asset is in motion which will impact battery life.

LoRaWAN®

868, 902-928 MHz

	Yankee Edge LoRaWAN	Yankee3 GPS LoRaWAN	Oscar3 GPS LoRaWAN	Golf62 GPS LoRaWAN
Frequencies	868 or 902-928 MHz versions	All 868, 902-928 MHz regions supported in single SKU	All 868, 902-928 MHz regions supported in single SKU	All 868, 902-928 MHz regions supported in single SKU
Power	Battery-Powered	Battery-Powered	Battery-Powered	Wired with Internal Backup Battery
Environment	Indoor/Outdoor	Outdoor	Outdoor	Outdoor
Location Technologies	GNSS Scanning Wi-Fi Scanning	Full GNSS	Full GNSS	Full GNSS
Cloud-Based Location Solving	Yes	-	-	-
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof	IP68 Rugged Waterproof
Accelerometer	Movement Detection	Movement Detection	Movement Detection	Movement Detection
Batteries	2 x AAA Lithium	3 x AAA Lithium	3 x AA Lithium or Lithium Thionyl Chloride (LTC)	-
Battery Life Estimates*				
Once Daily Location Updates	12 years	7 years	10 years	-
Movement-Based Location Updates**	1 year	7 months	2.5 years	-
Hourly Location Updates	3 years	7 months	2 years	-
Inputs / Outputs	-	-	-	1 x Analog Input, 3 x Digital Inputs, 1 x Switched Ground Digital Output, 1 x Ignition Digital Input

*Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, battery selection, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.

**Movement-based estimates are based on 2 hours of movement, occurring 5 days a week, with default tracking parameters (location updates every 3 minutes and uploads every 30 minutes). Devices can be configured to provide more frequent location updates when the asset is in motion which will impact battery life.

Global Tracking Operations Corporation

Connect on Almost Any Cellular Network with **Global Devices**

For enterprises seeking asset visibility across different networks and borders where LTE-M or NB-IoT is not available, 4G LTE Cat 1bis with 2G fallback emerges as a comprehensive global connectivity solution.

Track Anywhere

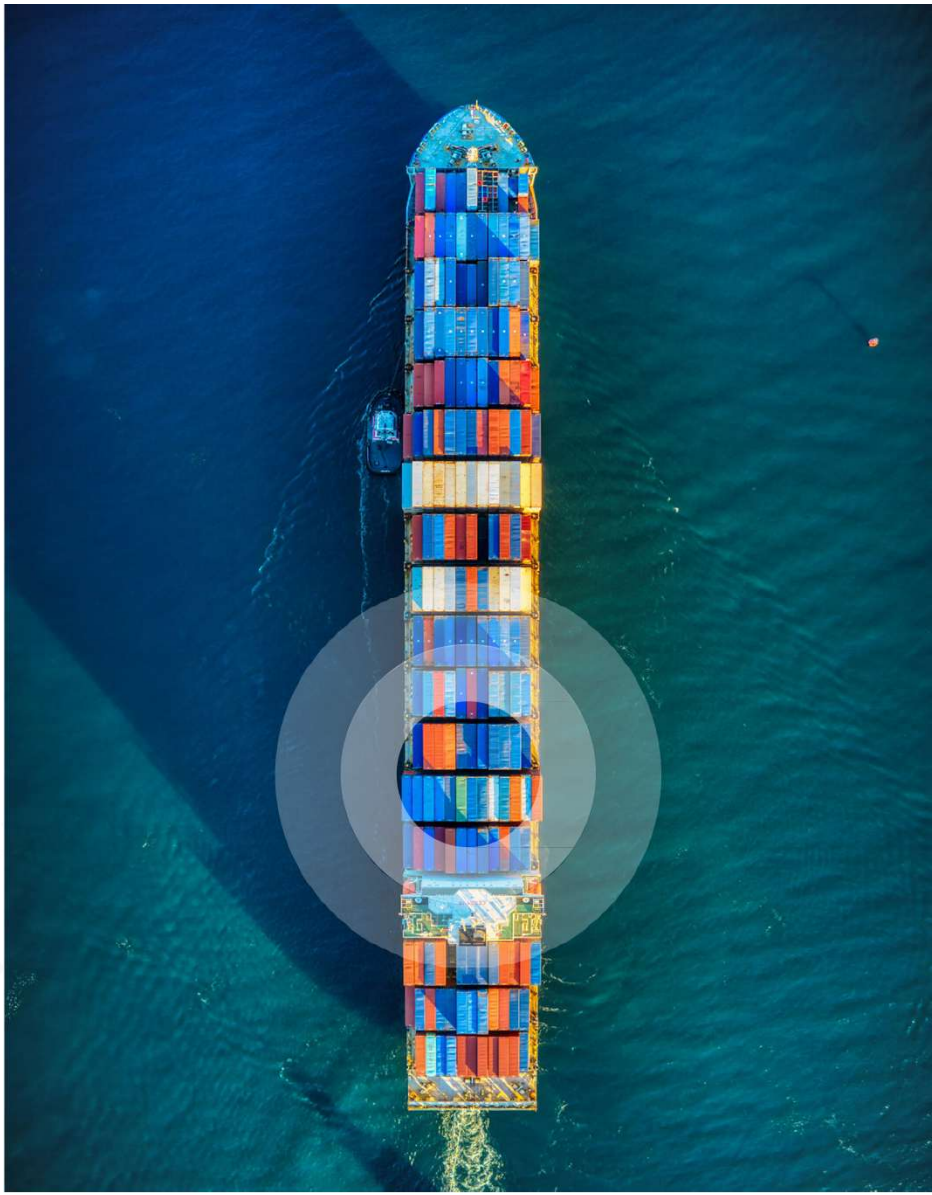
Our global devices enable seamless global asset tracking and management across most of the world's cellular networks.

Deploy in Regions Without LTE-M or NB-IoT

While these networks offer specific advantages in IoT asset tracking, including longer battery life, improved range and penetration, and better performance, global coverage is limited in some regions.

2G Migration Plan

Deploy today on 2G with a migration path to 4G as networks sunset.



Global Tracking Operations Corporation

Global Battery-Powered

4G LTE Cat 1bis with 2G Fallback
Connect Almost Anywhere

Oscar3 Global GPS

Romero3 Bluetooth Global GPS

	Oscar3 Global GPS	Romero3 Bluetooth Global GPS
Connectivity	4G LTE Cat 1bis and 2G fallback	4G LTE Cat 1bis and 2G fallback
Location Technologies	GNSS Cell Tower Location	GNSS Cell Tower Location
Bluetooth® Gateway	-	Yes
Housing Size	108 x 86 x 31 mm (4.25 x 3.39 x 1.22")	224 x 91 x 41 mm (8.82 x 3.58 x 1.61")
Magnet	-	Magnetic Tamper Detection
IP Rating	IP68 Rugged Waterproof	IP68 Rugged Waterproof
Accelerometer	Movement, Impact, Rotation, and Tip Detection	Movement, Impact, Rotation, and Tip Detection
Batteries	3 x AA Lithium	2 x D LTC
Battery Life Estimates*		
Once Daily Location Updates	8 years	10 years
Movement-Based Location Updates**	2.5 years	9 years
Hourly Location Updates	1.5 years	7 years

*Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, battery selection, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.

**Movement-based estimates are based on 2 hours of movement, occurring 5 days a week, with default tracking parameters (location updates every 3 minutes and uploads every 30 minutes). Devices can be configured to provide more frequent location updates when the asset is in motion which will impact battery life.

Global Tracking Operations Corporation

Feature-Rich **Fleet Management** Solutions

Track the equipment and vehicles that drive your business with our range of GPS tracking solutions for powered assets.

From plug-and-play devices that fit existing OBD ports to advanced wired options, build a comprehensive fleet and driver management solution.

- Real-Time Location Tracking and History
- Theft Prevention and Recovery
- Accident Detection
- Driver ID and Behavior
- Driver Fatigue
- Speed Reporting
- Immobilization
- In-Geofence Behavior

Global Tracking Operations Corporation

OBDII & Wired

Cellular 2G and 4G/5G
LTE-M (Cat-M1)/NB-IoT

Bravo2

Alpha Global Bluetooth®

Delta3 Bluetooth®

Golf70 Bluetooth®

Golf150 Global

	Bravo2	Alpha Global Bluetooth®	Delta3 Bluetooth®	Golf70 Bluetooth®	Golf150 Global
Connectivity	LTE-M and NB-IoT	4G LTE Cat 1bis and 2G fallback (Global)	LTE-M and NB-IoT	LTE-M and NB-IoT	4G LTE Cat 1bis and 2G fallback (Global)
Location Technologies	GNSS	GNSS	GNSS	GNSS	GNSS
Installation	OBDII	Wired	Wired / Optional OBDII or cigarette lighter power harness	Wired	Wired
IP Rating	–	IP54	–	IP68 Rugged Waterproof	IP68 Rugged Waterproof
Real-Time Tracking	Yes	Yes	Yes	Yes	Yes
Bluetooth® Gateway	-	Yes	Yes	Yes	Yes
Backup Battery	Yes	Yes	Yes	Yes	Yes
Ignition Digital Input	-	1	1	1	1
Digital Inputs	-	1	3	3	4
Analog Inputs	-	1	1	1	1
Switched Ground Digital Output	-	1	1	1	2
Switched Power Out	-	-	Yes	-	Yes
RS-232 Interface	-	-	-	-	Yes
Driver ID	-	Yes	Yes	Yes	Yes
Driver Behavior	Yes	Yes	Yes	Yes	Yes
Run Hour Monitoring / Odometer	Yes	Yes	Yes	Yes	Yes
Remote Immobilization	-	Yes	Yes	Yes	Yes

Global Tracking Operations Corporation

IoT Data Logger & Sensor Monitoring Hub

The Hotel is a robust plug-and-play IoT data logger and sensor hub designed to support an extensive range of sensor integrations, including: Bluetooth®, SDI-12, I²C, 1-Wire, iButton, 4-20mA, RS-485, RS-232, Analog Inputs, Digital Inputs, Pulse Counting, Digital Outputs, Switched Power, and more.

Choose Your Sensor

The Hotel architecture caters for plug-and-play I/O Cards that define the 9 inputs/outputs, offering limitless options for interfacing to sensors.

Choose Your Power

Power the Hotel with a large internal rechargeable LiPo battery, external power including solar, or 2 x D Cell LTC or Alkaline batteries.

Choose Your Housing

Select from our ultra-rugged housing options or build your own.

Choose Your Endpoint

Securely send data to your end platform via TCP Direct or HTTPS Webhook.

Enabling Hundreds of Remote Sensor Monitoring Applications

Temperature and Humidity

Soil Moisture and Quality

Weather Stations

Livestock and Wildlife Management

Sewer, Storm, and Flood Level Monitoring

Tank Level and Quality

Water Metering and Utilities

Equipment Management

Remote Task Management and Control

Global Tracking Operations Corporation

IoT Data Logger and Sensor Hub

Cellular LTE-M (Cat-M1)/NB-IoT
IoT Satellite Planned

	Hotel Pro	Hotel Lite
Key Differentiators	Connect any sensor within cellular coverage. Power options for any use case.	Connect any sensor within cellular coverage. Lower cost, lower power.
Connectivity	LTE-M and NB-IoT	
Architecture	Flexible I/O Card Architecture caters for plug-in cards that define the 9 inputs/outputs	
Multiple Power Options	- Large internal rechargeable 3500mAh LiPo battery - External power including solar - 2 x D Cell LTC batteries	- 2 x D Cell Alkaline batteries - Ideal for low-power applications
Input Voltage Range	6-28V	2-5.5V
Rugged Housing Options	- Hotel LiPo - Hotel D Cell with or without GORE Vent	- Hotel D Cell with or without GORE Vent
Onboard Digital Input	1 x Digital Input with configurable pull up/pull down 0-40V DC input range Can be used for pulse counting	
Onboard Output Power	Flexible onboard output power to power your sensors	
Onboard Task Management	Powerful onboard task management allows you to schedule tasks or run tasks based on sensor thresholds and events	
Onboard LiPo Battery Charger	Onboard LiPo battery charger with selectable charge rate	No charging circuitry
Onboard Accelerometer	Yes	
Onboard GPS	Nordic nRF9160 internal GPS	

Integrate Any Sensor with Plug-and-Play I/O Cards

Agtech1	1 x Digital Input, 1 x Switched Ground, I²C, SDI-12, 3.3V Switched Power Out, 5V or 12V Switched Sensor Power, 1-Wire® or iButton®, 4-20mA
Agtech2	4 x Analog Inputs (0-30V Range), 1 x Switched Ground, SDI-12, 3.3V Switched Power Out, 5V or 12V Switched Sensor Power, 1-Wire®
Bluetooth+	1 x Analog Input, 1 x Digital Input, 1 x Switched Ground, 3.3V Switched Power Out, 5V or 12V Switched Sensor Power, SDI-12, I²C, 4-20mA, Bluetooth Module
Digital	2 x Analog Inputs, 5 x Digital Inputs, 1 x Switched Ground, 5V or 12V Switched Sensor Power
RS-1	1 x Analog Input (0-30V Range), 1 Digital Input, 1 x Switched Ground, RS485 (Modbus), 3.3V Switched Power Out, 5V or 12V Switched Sensor Power, 1-Wire®, 1 x 4-20mA input
Serial (RS-232 and TTL)	1 x Analog Input, 2 x Digital Inputs, 1 x Switched Ground, 5V or 12V Switched Sensor Power, RS232 RX and TX, TTL RX and TX
4-20mA Card	4 x 4-20mA Inputs (+ and -), 5V or 12V Switched Sensor Power

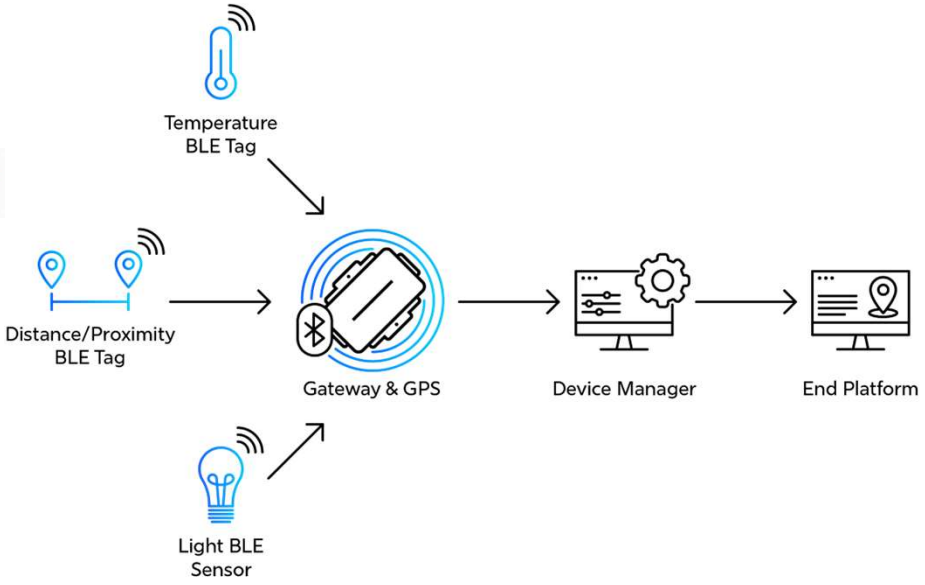
Hotel PCB, I/O Cards, and Housing Sold Separately. Custom card development available subject to MOQ.

Global Tracking Operations Corporation

Enhance Your Solution with Bluetooth® Low Energy (BLE)

Our range of Bluetooth gateway devices combine the accuracy of GPS location tracking and Bluetooth Low Energy to enable asset visibility, condition monitoring, exception reporting, and more.

Integrate with any third-party BLE tag, sensor, or beacon to capture and report on the data that matters to your business.



Inventory, Cargo, and Asset Management

Bluetooth Location tracking tags can be used to manage stock, inventory, pallets, tools, small pieces of equipment, and more.

Condition Monitoring and Cold Chain

Install Bluetooth sensors in temperature and/or humidity-sensitive trucks, freezers, or packages to maintain safety and compliance.

Exception Reporting

Receive alerts when, and at what locations, high-value assets or dangerous goods are mishandled during transit with impact, vibration, or high G-force detection.

Door Open/Close Monitoring

Integrate with a variety of Bluetooth tags such as magnets or light sensors to enable door open/close monitoring for tamper detection, reporting, and/or compliance.

Enhanced Fleet Management

Leverage Bluetooth sensors for driver ID, fuel monitoring, axle load, tire pressure, and temperature to achieve a robust and wire-free fleet management solution.

Global Tracking Operations Corporation

telematics guru

Asset Tracking Software

It works seamlessly with all the hardware listed above.

Proven & Deployment-Ready
Tried, tested, and ready for immediate use.

Ready to Take to the market under your own brand.

Enterprise-Level Security
Secure and scale your solution.

Regional Support
Resolve queries quickly with expert technical support.

One Platform, Every Asset

Asset Management

Location Tracking
Quickly locate your assets

Trip History
View historical trip data

Recovery Mode
One-touch real-time tracking

Robust Reporting
Vital reports for analysis

Actionable Alerts
Set notifications for exceptional events

Geofencing
Create digital boundaries to understand asset movement

Asset Utilization
Understand how your assets are being used

Condition Monitoring
Report on temperature, humidity, and more

Custom Map Overlays
Integrate custom maps

Fleet Management

Driver ID
Collect, manage, and sync Driver ID details

Driver Behavior
Monitor fatigue, speeding, acceleration, braking and more

Incident Detection
Receive alerts if asset is involved in an accident

Preventative Maintenance
Reduce asset downtime with maintenance alerts

Immobilization
Safely and remotely disable assets

Deliveries & Dispatches
Enable simple job or delivery dispatching

Maintenance & Checklists
Create pre-start checks, proof of delivery and maintenance

Expense Reporting
Mark trips as business vs. private for logbooking

Global Tracking Operations Corporation

Device Manager

Device Manager is our cloud-based **Device Management Platform** that provides visibility and control over your devices and ensures that they continue to perform at their best for longer.

Customize for Your Use Case

Take control of over 200 device settings to fine-tune performance for your use case.

Monitor and Troubleshoot Quickly

Minimize downtime and improve end-customer satisfaction.

Keep Devices Up-to-Date Remotely

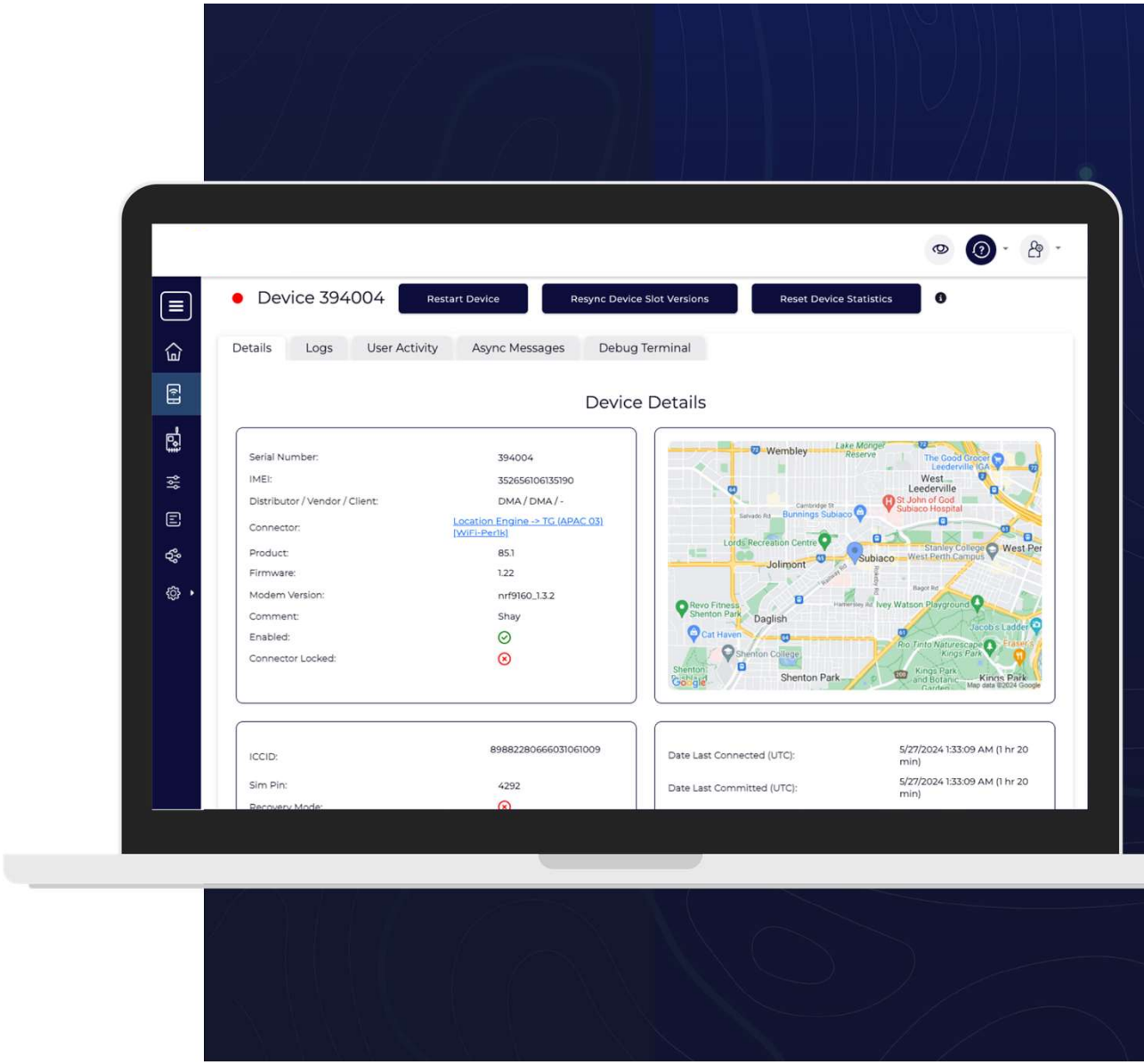
Update device settings, firmware, and security enhancements over-the-air.

Maximize Performance

Utilize advanced functionality such as GNSS Aiding Data to improve device performance.

Secure Your Solution and Scale

AES-256 Encryption and Authentication keeps data secure.



Global Tracking Operations Corporation

Fine-Tune Device Performance for Your Use Case

Devices are highly configurable via Device Manager. Take control over a robust range of settings to fine-tune performance for your specific use case.

Streamline your operations by templating parameters to apply settings in bulk and remotely push updates, ensuring your hardware continuously adapts to the evolving needs of your deployments.

Tracking Behaviors

Update Rate, Tracking Mode, Movement Detection, Accelerometer Settings, Scheduled Uploads, Inactivity

Condition Monitoring

Impact Detection, Tip Detection, Rotation Counting, Run Hour Monitoring

Fleet Management

Accident Logging, Driver ID, Harsh Driving, Driver Fatigue, Idle Monitoring, Speeding, Immobilization, Geofence Behavior

Inputs/Outputs and Peripherals

Analog, Digital, I/O Thresholds and Alerts, Upload Behavior, Task Management, Peripheral Integrations, Peripheral Control

Bluetooth®

Universal Tag Integration, Bluetooth Scanning Frequency and Upload Behavior, Update on Sensor Values or Events

Recovery and Tampering

Live Tracking and Logging Intervals, After-Hours Movement, Tamper Alerts

Location and Accuracy

Accuracy Requirements and Filtering, GPS Timeout Behavior, Location Technology Types

Network Settings

APN Settings, Network Settings and Preferences, Band Selection or Masking, Network Registration Timeouts

Global Tracking Operations Corporation

Send Data Anywhere with Integration and API Control

Securely send device data to your end platform through HTTPS or TCP, including to multiple endpoints simultaneously.

Perform various functions through a comprehensive API to automate device control, provisioning, and performance monitoring.