



Self-Contained Iridium Tracker



## What is the GSatMicro?

The GSatMicro is the smallest self-contained Iridium tracker in the world! It transmits positions, SOS alerts and other specialized information through its industry-leading satellite, antenna and electronics technology to be monitored and analyzed in real time. Configuration capabilities enable the support of any asset and type of information, allowing the GSatMicro to be used in many different applications.

- Lua Scripting Language
- Bluetooth 4.0 (BLE)
- AES 256-bit Encryption
- Latest SiRF 4 GPS
- USB & RS232 Interface
- Internal 2.5Ah Battery

## Truly Global Operation

By utilizing the Iridium network, the GSatMicro can track any asset, anywhere on earth using the most advanced low earth orbiting satellite network in existence.



## Versatile

The GSatMicro can be used in maritime, aircraft, vehicles and with personnel. It is ideal for applications such as: security and safety, fleet management, oil and drilling, soldier tracking, and secure government applications.

OEM options allow the GSatMicro to be used in a multitude of custom projects.

Additionally, Lua scripting provides powerful and customizable behaviors for the GSatMicro.

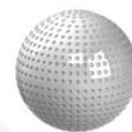


## Markets

- Fleet Management
- Container Tracking
- Vessel Tracking
- Security Services
- Soldier Tracking
- Encrypted Government Tracking
- Fuel Monitoring & Logistics
- Oil & Gas Operations
- SCADA
- Electronic Driver Log Compliance
- Recreational
- Custom Tracking Solutions



Military Model



Not much bigger than a golf ball



Vehicle Model



## Welcome to the power of scripting

*What does "scripting" mean for me?*

### Examples:

- Behavior monitoring and transmission using accelerometer
- External interfaces to additional equipment
- Data logging and queued transmissions
- Lone worker monitoring and lack of movement monitoring
- Customized control of LED's
- Customized software applications over Bluetooth
- Custom message formats and full protocol control
- Geofencing behavior and alarm management

### Embedded RAD:

Prototype and experiment on a Rapid Application Development model. Test your ideas directly on the target platforms. No need for simulators or future code adaptations.

### Learn Embedded

Simple interactive and interpreted experimenting cycle. Use your desktop programming skills to become an embedded systems developer in no time.

### Longevity

Add user configuration and scripting capabilities to your projects, making them adaptable to the always changing contexts of industrial processes, evolving engineering, automation standards, and field optimizations.

### Script Portability

As the platform and network capabilities continually change and new hardware is released, your scripting remains the same. A variety of products will use the same script as they become available.

### Shorter TTM

Optimizes Time to Market, shorter time to revenue, and improved ability to hit critical market windows.

## Features

- 32 bit ARM processor with customizable Lua scripting environment powered by eLua
- Dimensions: 1.77x1.77x0.78 inches (45x45x20mm) including battery & modem
- SiRFstarIV GPS with an amazing -163dBm sensitivity
- AES 256-bit encryption
- Bluetooth 4.0 (BLE)
- Built in 2.4Ah Lithium Polymer battery & charger
- Accelerometer and Magnetic Compass
- Battery Fuel Gauge
- High performance helical antenna dual-tuned for Iridium and GPS
- Over the air configuration of the terminal
- Truly global coverage with the Iridium satellite network
- OEM options available

## Interfaces

DC Power (6V to 36V DC) @ 2A max  
USB Interface (Serial, Firmware Update & Charging)  
RS232 Interface  
2 Relay Outputs @ 2A  
2 Analog Inputs (0V to 30V DC)

## Specifications

### Communication

**Lua command interface with parsable logging (Default)**

### Performance

Channels:	48
Correlators:	~ 400,000
Frequency:	LI - 1,575 MHz
Sensitivity:	Tracking: - 163 dBm Navigation: - 160 dBm Aquisition (cold start): - 148 dBm
Position Accuracy:	< 2.5 m CEP (autonomous) < 2.0 m CEP SBAS (horizontal)
Time To First Fix:	Hot Start: < 1 s, Warm Start: < 32 s Cold Start: < 35 s