

GSatMicro

Powered by
GSatTrack

Track Anything Anywhere In The World!

- Latest SiRf 4 GPS
- 3D Magnetic Compass
- 3D Accelerometer
- LUA scripting language
- Bluetooth 4.0 (BLE)
- USB & RS232 Interface
- AES 256 bit Encryption
- Single Antenna
- 4.5V to 40V DC
- Internal 2.5Ah battery



Small & Lightweight

The GSatMicro is the smallest self-contained Iridium tracker in the world! It can transmit your location from anywhere in the world and is built on the latest satellite, antenna, and electronics technology to track, monitor and analyze in real time!

Truly Global Operation

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

Versatile

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

Features

- 32 bit ARM processor with a fully user customizable LUA scripting language
- Internal dimensions 1.77 x 1.77 x 1.34 inches (45 x 45 x 34mm), including battery, modem & antenna
- SiRFstarIV GPS with an amazing -163dBm sensitivity
- AES 256-bit encryption
- Built in 2.5Ah Lithium Polymer battery & charger
- Accelerometer and Magnetic Compass
- Battery Fuel Gauge
- Integrated high gain ceramic 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



Vehicle Model



Military Model



Not much bigger than a golf ball

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.

Markets

Fleet Management
Container Tracking
Vessel Tracking
Security Services
Government Tracking with Encryption
Fuel Monitoring and Logistics
Soldier Tracking
SCADA
Electronic Driver Log Compliance

Interfaces

DC Power (4.5V to 40V DC) @ 1A max
USB Interface
RS232 Interface
2 Relay Outputs @ 2A
2 Analog Inputs (0V to 30V DC)
Optional SMA antenna connector

Specifications

Communication

UART - NMEA (Default)

NMEA message Switchable: GGA, RMC, GSA, GSV, VTG, GLL, ZDA

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