



Features

- GSM/GPRS worldwide cellular radio communication and location tracking
- Deployment scenarios include tracking packages, valuable assets and personnel
- Multiple location and sensor reporting modes:
 - "Ping" on demand
 - Periodically on preset schedule
 - One rate while moving, another while stationary
 - Start and stop alerts
 - Custom sensor upper/ lower limits and exception alerts
- Unit can be configured over-the-air remotely
- Flexibility for hardwired or battery power with a wide range of external battery options
- Hibernation option extends battery life to a year or more
- All sensors including battery status are available on demand and automatically updated with each location report

For Users

- Best overall location performance
- Ability to get locates in environments other devices cannot
- Multi-function utility

For Integrators

- Available direct device integration or API into FSNtracks
- Bi-directional communication and configuration
- Remote diagnostic log retrieval
- Over-the-air firmware upgrades

For Resellers

- Low price point
- Flexibility

GLOBAL ASSISTED-GPS TRACKER

The FreightWatch Geo F5 Global Tracker is a value-priced, highly sensitive and accurate location tracking and sensor monitoring device. Rather than relying solely on either GPS signals or cell tower location data, the F5 technology augments GPS signals with cell tower triangulation so that the F5 operates in impaired environments where most GPS trackers do not. The Geo F5 is ideal for embedded cargo tracking, asset location security and covert surveillance.

The Geo F5 utilizes u-blox CellLocate™ industry-leading A-GPS technology to integrate GPS plus cellular position data, and can detect GPS and/or cellular jamming noise. When jamming is detected, the device goes into an "attempted theft" condition that initiates programmed counter-measures, such as activating an optional RF beacon.



F5 Light Sensor and Micro USB port

The Geo F5 has a full sensor monitoring suite, both internal and external. Onboard temperature and light sensors offer additional utility for tamper-evident applications.

Superior battery management enables the F5 to remain deployed in remote locations for long periods. It can easily be hardwired to available 9-30 Volt DC power sources.

Combined with the FSNtracks online "track and trace" service, the Geo F5 is a best-in-class, embeddable tracking device that works worldwide wherever GSM/GPRS cellular coverage is available for global and cross-border applications.

Specifications

Size

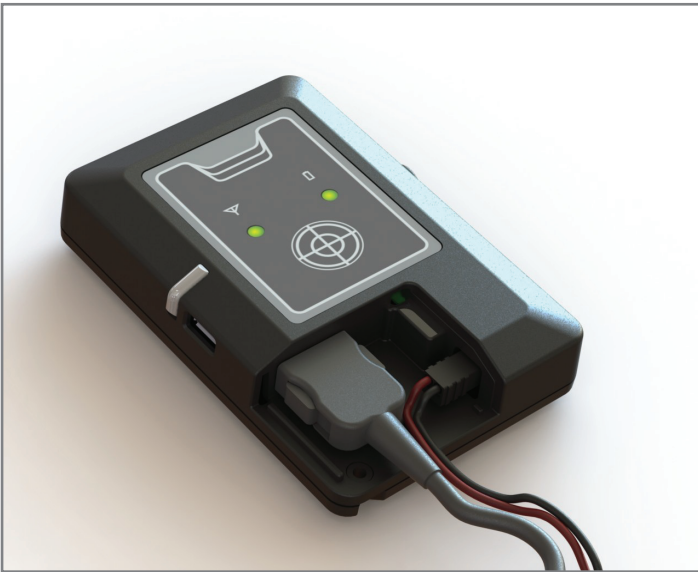
- (L) 3.54" x (W) 2.36" x (H) 0.79"
- (L) 90 x (W) 60 x (H) 20 mm

Weight

- 3.0 oz. /85.05 g with internal battery

Battery Capacity

- 1.6 Ahr. Lithium-ion rechargeable (internal configuration)
- Optional 4.0, 10.0 or 20.0 Ahr. Li-polymer batteries



Geo F5 Tracker with 10-pin Connector for Hardwired Applications (left)
Optional External Battery Connection (right)

Specifications (continued)

External Power Connectors

- MATE-N-LOK™ External Battery (3.4 to 4.3 Volts)
- Micro-USB 5 Volt external DC
- 10-pin vehicle power adapter (9-30 Volts)

Interfaces via 10-pin Connector

- 3 Volt digital
- Serial Uart
- Two sensor interfaces: 4-20 mA current sensor; and/or Analog input sensor

Internal Sensors

- Temperature: -4° to 140°F/-20° to 60°C
- Light: ± 4 lux from 0 to 254 lux

Internal Antennas

- Integrated GPS and Cellular

Motion Detection

- Electronic 3D accelerometer enables motion dependent reporting rates and alerts
- Inferred motion status via FSNtracks

Interfaces

- Two LED indicators (battery & link status)
- Programmable status button (top)
- On/Off button (side)

Hardware Module

- u-blox LEON G200 - GPRS
- u-blox Max 6 - GPS

Radio & Network Modes

- GSM/GPRS
- Global Quad band (850, 900, 1800 and 1900 MHz)
- SMS and TCP command and TCP/IP response (less prone to delays)

GPS Modes and Sensitivity

- GPS tracking (-168 dBm)
- Assisted-GPS (-157 dBm)
- GPS (-148 dBm)

Water Resistance & Environment

- Temperature
-20°C to +60°C (standard operation)
-40°C to +85°C (storage)
- Humidity
0-35% (non-condensing)

Standards

- GSM/GPRS Re. 97 (Data)
- TS 23.040 (SMS)

About FreightWatch Security Net (FSN)

FreightWatch Security Net (FSN), combines wireless communications and machine-to-machine (M2M) engineering expertise in its "track and trace" devices that work where traditional GPS technology does not. FSN manufactured products and online services deliver real-time remote location and sensor data. Whether it is embedded cargo tracking, supply chain visibility, asset location assurance, loss prevention or covert surveillance, FreightWatch portable, battery-powered tracking solutions provide a reliable layer of security for a widening range of applications. FSN technology is the trusted choice of high value shippers, the transportation industry, corporate asset managers and law enforcement agencies alike. Founded in 2005, FreightWatch Security Net provides cross border tracking systems to affiliates worldwide.