

The most important thing we build is trust



- Global Asset Tracking Solution using GPS and Iridium Satellite Networks
- Portable: no external antenna or installation certification required
- Reduced cost through enhanced planning/logistics management
- Utilizes Iridium satellite network: real time, gap free reliability
- Keypad allows two-way communication: operator to base while enroute
- Optional spidertxt application allows 2-way texting anywhere in the world

Spidertracks

Technical Specifications

COBHAM

The most important thing we build is trust

Compact, Self-Contained

The spidertracks tracking unit is a compact, self-contained unit that only requires a 10-32V DC power supply to operate. The system is supplied with a cigarette/accessory plug for easy connection to a commonly available power socket or it can be hard wired into the vehicle. The light-weight design (300g) enables it to be held in a suitable position with hook & loop fastener tape.

Spidertracks contains a GPS transmitter/receiver and an internal satellite antenna. For reliable operation, the spidertracks unit requires a view of the sky.

System Structure

Mounting spidertracks on the dashboard will provide a sufficient view for reliable updates. The position of the asset in 3D space is calculated by the internal GPS receiver. The unit then transmits the information via the Iridium Satellite Network to the Spider Tracks Ltd. web servers.

Through a secure login, current and past tracking reports can be viewed in real time and saved for reference. The tracks are plotted on topographical maps and can be exported in a format compatible with the free version of Google Earth.

Spidertxt

The optional spidertxt application allows 2-way texting to anyone, anywhere in the world via the Iridium satellite network. Texts are sent using a Windows compatible PDA equipped with easily downloadable spidertxt software via a new generation Bluetooth spider. Texts sent via Short Burst Data work even when the signal is weak. Spidertxt is a cost-effective alternative to satellite voice communication.

Position Updates

Upon powering the unit, a message to signify the start of a new track is sent to the web server, followed by a message indicating the current position of the unit. Position updates, after initial position reporting, are based on triggers or by request via the website. The triggers are configurable from the website and are based on distance, time, or a combination of both.

The distance trigger refers to the distance (km or miles) from the last update of the unit. If the entered trigger distance is exceeded, the spidertracks unit will report the situation through an update.

The time trigger refers to the time elapsed (in minutes) since the last update. Once the set trigger time has been exceeded, the spidertracks unit will report the situation through an update.

It is recommended that both trigger methods are used with appropriate values for the application. Requests for an update via the website will only be acknowledged with the return of a position update when the spidertracks unit is powered up.

Technical Specifications

Physical Characteristics

Dimensions: 130 x 65 x 32 mm
Weight: 300 g

Environmental Characteristics

Operating Temperature: -25°C to +70°C
Storage Temperature: -25°C to +85°C
IP Rating: IP67

Electrical Characteristics

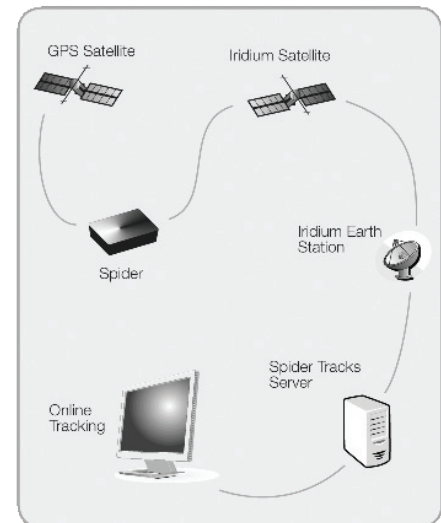
Iridium SBM Modem: 9601, 1625 MHz
Input Voltage: 10 V to 32 V DC
Current Draw: <100 mA at 12 V
Fused and Reverse Polarity Protection

Operational

Network: Iridium Service SBD (Short Burst Data)
GPS Type: SiRF star III, up to 20 channel tracking with sensitivity of -159 dB
Max Velocity: 1,000 KTS
Max Altitude: 60,000 ft

Web Server

Industry standard 128-bit encryption from client computer server
Guaranteed 99.999% uptime, with redundant servers



For further information please contact:

**Cobham Avionics
Artex Products**
14405 Keil Road NE
Aurora, OR 97002 USA
Tel: 1-800-547-8901
Fax: 1-503-678-7930