

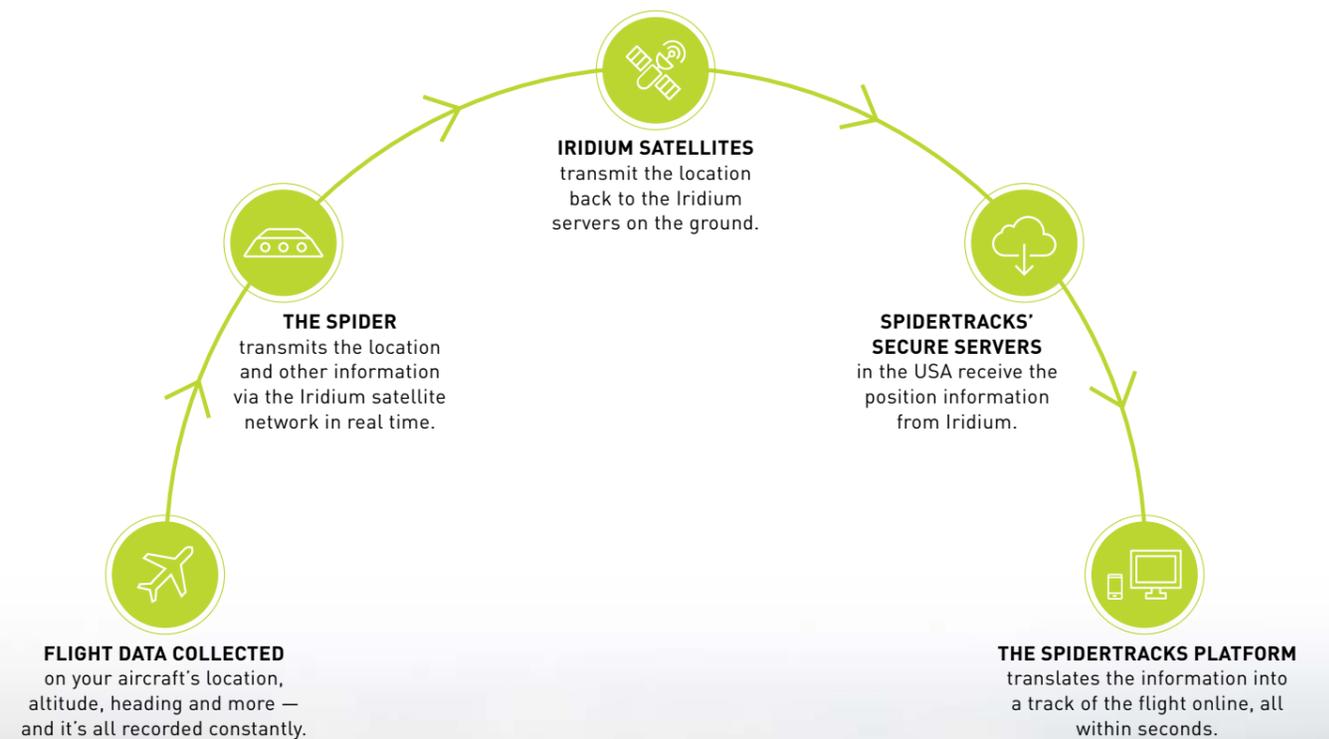
spidertracks

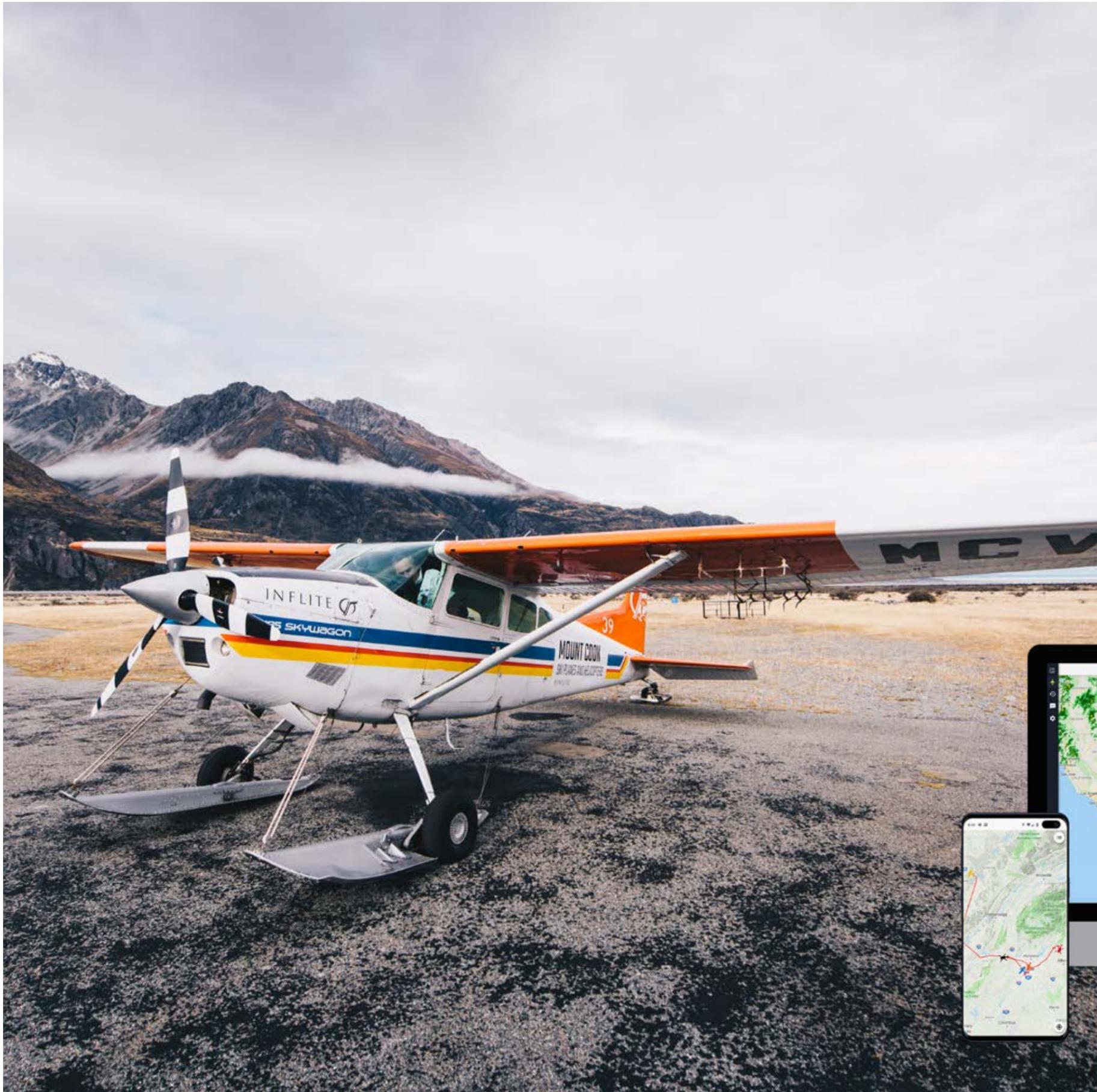
time to save lives

# Safety driven, customer-led innovation.

Spidertracks has a distinct vision — to make the aviation community a safer place to live and operate in. Our custom end-to-end product ensures you know where your aircraft are, how they are being flown, and have the ability to communicate with them in real time. The result? An informed, safer, and more efficient operation.

## How it Works





## The Spidertracks Solution

**Trusted by thousands of aircraft owners and operators across the globe to deliver real-time satellite based flight tracking, automated emergency management, and communication services.**

The Spidertracks platform is delivered via an encrypted website and mobile apps, allowing you to monitor your fleet from any Internet-connected device. Take advantage of simple navigation, track view options, and sectional and weather overlays.

Our hardware provides the latest in Spidertracks technology. Wholly compatible with our most recent updates, they come provisioned with the latest Virtual FDR™ software and Spidertxt 2-way messaging capabilities.

The customer is the most important person in our business. The team are actively involved in the on-boarding phase and provide training and personalised support throughout the journey.

**When you can see your business, you can manage your business.**

# Core Features

## Features available on Spider 6 & Spider 8:



**Real-time Aircraft Tracking**  
Dedicated global coverage via the Iridium satellite network improves operational efficiency and oversight, and ensures constant connectivity to your aircraft.



**Virtual FDR™**  
A 4D vector is logged up to every 5 seconds and transmitted in a bundled package with the next 1-minute position report. The result is a richer, high-resolution flight track and an accurate representation of the aircraft's actual flight path and movements.



**Historical Reports**  
The platform provides a full history of all flights. Historical data enables review, learning and improvement and is an excellent flight debriefing and training tool.



**Manual SOS Alerting**  
The SOS button on the keypad can be used in an emergency to send instant alert messages to your preset emergency contacts. This ensures early insight into an emergency situation on the aircraft and provides a high resolution flight path for search and rescue efforts.



**Spidertxt — Operational Messages**  
Provides unlimited two-way messaging to your nominated air or land-based personnel. Message aircraft-to-aircraft, aircraft-to-ground, and ground-to-ground — from anywhere in the world — even when you are outside cellular range.



**Real-time Weather Overlays**  
Overlay live weather conditions while tracking your aircraft to quickly and easily interpret weather conditions. High-resolution radar, infrared satellite imagery and winds aloft layers available.



**Flight Events Monitoring**  
Customised delivery of notifications by email and/or text of non-scheduled reports including heading changes, speed transitions, and rates of change in altitude. Provides insight into events at different phases of flight, including anomaly detection.



**VFR / IFR Sectional Overlays**  
Increase your operational situational awareness with VFR/IFR Charts which allow pilots and flight followers to view airspace context alongside the real-time flight track. In addition to knowing the exact location of your aircraft you can use these sectional overlays to review flight paths and possible airspace incursions.



**Flight Monitoring System & Distress Detection**  
If communication with the aircraft is lost without positive confirmation from the pilot of safe arrival, Automated Watch will automatically send an SOS message after 15 minutes of no communication.



**Emergency Management Framework**  
A two tiered emergency management framework is part of the core Spidertracks system. This increases efficiency, productivity and SMS capabilities, and provides the automated workflows to administer your Emergency Response Plan.



**Spidertracks AFF/API**  
The Spidertracks system is able to push data through an API to integrate with state agencies and other service providers.

## Spider 8 additional features:



**External Antenna Input**  
Have an aircraft with a heated windshield? With the Spider 8 you can plug into an external GPS/Iridium antenna.



**External Keypad**  
With the new external keypad you can mount the Spider 8 discreetly out of the way but still have access to the Spider's main buttons.



**Universal Aircraft Interface**  
The UAI enables operators to detect and transmit various discrete inputs and outputs through the Spider and the Spidertracks platform.



## Virtual FDR™

### Supercharge your safety oversight and FOQA capabilities

Virtual FDR utilizes an adaptive sampling algorithm to provide a deeper, richer, high-resolution flight track.

### Powerful post-flight review

In addition to the Spider's real-time reporting capabilities, Virtual FDR™ will log a 4D vector every 15 seconds. This flight data is recorded on the Spider and transmitted in a bundled package with the next 1-minute position report. The result? An incredibly accurate representation of the aircraft's actual flight path and movements.

### Adaptive tracking for better insights

Changing course? We've got you covered. Heading changes trigger 5-second reporting and provides you with a smoother track and more precise data.

### No reception? No problem

Using a dedicated Iridium channel means that this level of fidelity is delivered on time, every time, without exception and ensures that you're always covered in real time no matter where you are on the globe — and regardless of whether you have cellular reception.



## Spidertxt

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### **Connect all your assets with a single communications tool.**

Spidertxt provides unlimited secure and reliable communication to and from your aircraft's cockpit and works independently of local infrastructure to deliver your message, no matter what.

By automatically determining which network (local cellular or Iridium satellite) has a stronger signal, Spidertxt sends your message through the fastest channel — meaning no black spots or loss of coverage. Now you can message aircraft-to-aircraft, aircraft-to-ground, and ground-to-ground, from anywhere in the world.

With Spidertxt, we kept it simple. One channel for your entire company, one price per aircraft — and unlimited communication.

## Real-time Weather Overlays

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### **As aircraft owners and operators, you need crucial information to keep your people safe and your aircraft operating efficiently.**

We have partnered with Baron — the leaders in aviation weather intelligence, to bring you live weather information and visuals without leaving the Spidertracks platform.

This feature allows you to overlay real-time weather conditions while tracking your aircraft to quickly and easily interpret weather conditions and is included as a standard Spidertracks feature.

## Automated Watch Mode

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### **Automated Watch, our patented active-tracking option that watches over you as you fly, automatically generates an alert should a disconnection from the satellite network occur.**

By default, Watch mode sends your aircraft's position reports to the Spidertracks system at every one to two minutes after take off. If there is no communication between the Spider and the Spidertracks system for 15 minutes, Automated Watch will raise an alert to your tier-one contacts.

**12 years** of global operation; more than **6400 installations** across **103 countries**; and tracking more than **ten million flight hours**, Spidertracks is the preferred and trusted choice - even in the most challenging aeronautical conditions.



## Hardware

### Spider 6

#### The next small thing in aircraft tracking.

Beautifully designed to integrate with your cockpit, the Spider 6 provides a 'plug-and-play' solution to equip your aircraft with powerful safety and communication features. Developed by Spidertracks specifically for aviation, the Spider 6 allows you to track and communicate with your aircraft anywhere in the world via the Iridium network.

#### Features

- Global satellite tracking via Iridium
- Two-way operational messaging
- Automated Watch mode
- One-button SOS activation
- Mark button for highlighting points
- Simple to install



#### Dimensions

3.5" x 4.3" x 1.0" | 90mm x 110mm x 25mm

#### Weight

0.35 lb | 159g

### Spider 8

#### The Spider 8 builds on the trusted platform of the Spider 6 and is the first Spider to include a Universal Aircraft Interface (UAI).

The UAI enables operators to detect and transmit various discrete inputs/outputs through the Spider and the Spidertracks platform from anywhere in the world (e.g. engine on/off, takeoff/landing, fire bucket open/close, and many more).

#### Features

- Universal Aircraft Interface for event reporting
- External Antenna Input
- Remote-Mounted Keypad
- Spidertxt Compatible
- Discrete Remote-Mounting Capability



#### Dimensions

3.7" x 4.9" x 1.1" | 95mm x 125mm x 30mm

#### Weight

0.36 lb | 165g

Visit [www.spidertracks.com/hardware](http://www.spidertracks.com/hardware) for all features

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## What our customers say

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“We have transitioned our nationwide fleet to Spidertracks and are realizing improved flight following reliability and greater functionality with Spidertracks.

— **Greg Reeves**, Barr Air Patrol, USA

“As part of our commitment to quality and safety, CTC has been using Spidertracks since 2010. As the aircraft are often away on long navigation exercises over rugged terrain, with trainee pilots on board, it is essential that we keep track of them and know of any potential problems. Spidertracks enables us to do this easily and efficiently.

— **Ian Hector**, CTC Aviation Training Ltd, New Zealand

“We are delighted with Spidertxt. I was pleasantly surprised how easy it was to use Spidertxt and how well it worked.

— **Jeff Daniels**, Motta International, Panama

“Tanalian Aviation uses Spidertracks on our entire fleet of helicopters and we couldn't be more pleased with the service and quality of the product. In Alaska, where many other GPS tracking systems are prone to failure, we have never had a Spidertracks unit fail to track.

As the Aviation Safety Manager for Tanalian, I rely on Spidertracks to provide real-time data 24/7 and it always delivers.

— **Jairus Duncan**, Tanalian Aviation, USA

“Spidertracks gives us the ability to easily communicate with our aircraft anywhere in the world, whilst adding a level of flight following detail we've never had before.

— **Fernando Pardo**, Aerolineas Ejecutivas, Mexico



## What our customers say about Virtual FDR™

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“The Spidertracks upgrade has worked great and the improved resolution gives us peace of mind for accuracy in locating a downed aircraft.

— **David Okita**, Volcano Helicopters, USA

“The office people LOVE VFDR. Before we had a vague idea of what the pilots have flown, but with the increased position reports (1 minute and every 30 degree heading change), we can see the exact manoeuvres of the aircraft.

— **Alfred D'Mello**, OGL Engineering, Canada

“The more accurate track allows us to understand or anticipate the pilot's thought process if we see a track deviate from what we expect to see.

All in all, very impressed with Virtual FDR!

— **Paul Roberts**, FreshAir, UK

# spidertracks

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