STRATUS

PILOT'S GUIDE

ForeFlight   A P P A R E O   sporty's

STRATUS

QUICK START INSTRUCTIONS

1. Charge Stratus battery using wall adapter.
2. Place Stratus in aircraft.
3. Power on Stratus by pressing the power button.
4. Connect your iPhone® or iPad® to the Stratus WiFi network.
5. Open ForeFlight Mobile and confirm connection to Stratus using the Devices tab.

PACKAGE CONTENTS

- Stratus module
- 120VAC wall charger and USB cable
- Stratus Pilot's Guide

OPTIONAL ACCESSORIES

Visit www.sportys.com/stratus or www.appareo.com/stratus for compatible external antennas, vehicle power adapters, and other Stratus accessories.

ABOUT STRATUS

Stratus is a portable, battery-operated receiver that works in harmony with ForeFlight Mobile. It provides pilots with free in-flight weather and is a source of accurate GPS WAAS position reports. Stratus receives Automatic Dependent Surveillance - Broadcast (ADS-B) weather information (FIS-B) and other related data and broadcasts it to ForeFlight Mobile via a WiFi network created by Stratus.

USB PORT   ANTENNA PORT

POWER BUTTON   LED INDICATORS

CHARGE THE BATTERY

Use the included wall adapter to charge the battery. To connect the adapter to Stratus, insert the cable into the USB port and plug the adapter into an electric wall socket. Fully charge battery prior to each use. Visit www.sportys.com/stratus or www.appareo.com/stratus for a complete list of other compatible battery chargers.

USING BATTERY POWER

If Stratus is not connected to an external power adapter, it will automatically draw power from the internal battery.

TURN STRATUS ON OR OFF

To turn Stratus on, press and hold the power button until all LED indicators are illuminated.

CONNECT TO FOREFLIGHT MOBILE

In order for Stratus to communicate with ForeFlight Mobile, you must first connect your iPhone or iPad to the Stratus wireless network.

1. Press the **Settings** icon on your iPhone or iPad's home screen.

2. Press **WiFi**.

3. Ensure that WiFi is enabled (the slider next to WiFi should display *ON*). Press the Stratus wireless network, displayed under *Choose a Network…* to connect.

NOTE: Stratus's wireless network name will be displayed as "StratusXXXXXX," where the X's represent your Stratus's unique six digit serial number.

Once your iPhone or iPad is connected to the Stratus wireless network, a checkmark will appear next to the network name.

NOTE: It is recommend that you disable the *Ask to Join Networks* feature on your iPhone or iPad while you are using Stratus and ForeFlight Mobile.

4. To confirm that Stratus is connected to ForeFlight Mobile, open the ForeFlight Mobile app on your iPhone or iPad and select **Devices**. A box will appear on this screen to notify you that Stratus is successfully connected. From this screen, you may interact with your Stratus.

   NOTE: Please refer to the Pilot's Guide for ForeFlight Mobile for more information about interacting with Stratus via ForeFlight Mobile.

LED INDICATOR STATUS

Symbol	Description	Color	Condition Indicated
⚡	External power	Green	External power is received, battery is fully charged
		Yellow	External power is received, battery is being charged
		Red flashing	Connected to an incompatible charger, or charger is unable to provide sufficient power
		Off	No external power is being received
🔋	Battery power	Green	Battery is at 20% to 100% charge
		Yellow	Battery is at 5% to 19% charge
		Red	Battery is at 1% to 4% charge

Symbol	Description	Color	Condition Indicated
📶	ADS-B signal	Green	An ADS-B ground up-link is active
		Off	An ADS-B ground up-link has not been received in the past three seconds
	All indicators	Red flashing	Built-in-Test failure. Contact support for assistance
		Yellow flashing	Installing firmware update
		Green for two seconds	Firmware update complete
		Blue to white to blue, then off	Factory reset process is complete
		Purple	Powering down, configuration data is being saved
		Off	Powered off

POWER OPTION SETTINGS

You may select how Stratus is powered on: automatically whenever the device receives power, or only when the power button is pushed. This setting may be changed via ForeFlight Mobile. For more information about this feature and instructions on changing the power option setting, please refer to the Pilot's Guide for ForeFlight Mobile.

PLACE STRATUS IN AIRCRAFT

To mount Stratus in your aircraft, place on the glare shield. This location provides the best ADS-B and GPS reception as Stratus has a clear view of towers and satellites.

LED AUTO-DIMMING

Stratus contains an ambient light sensor that will brighten or dim the LEDs in response to the ambient light level.

You may also manually change and save LED brightness settings via ForeFlight Mobile. Please refer to the Pilot's Guide for ForeFlight Mobile for instructions.

RESET TO FACTORY SETTINGS

To return Stratus to its default factory settings, press and hold the power button for 30 seconds while the device is on. Once the factory reset is complete, all of the LED indicators will cycle from blue to white to blue. The factory reset will change the LED dimming and power mode settings back to default.

CONNECT AN EXTERNAL ANTENNA*

To connect an external ADS-B antenna to Stratus, insert the antenna's cable into the antenna port.

PLACE EXTERNAL ANTENNA IN AIRCRAFT*

When placing an external ADS-B antenna in your aircraft, choose a location that provides an unobstructed view of ADS-B ground towers.

*External antennas are optional accessories available from your Stratus retailer.

FAQS

What is the source of the information received by Stratus? Is there coverage in my region?

ADS-B is the source of the data received by Stratus. Go to www.appareo.com/stratus to view an updated map of current ADS-B coverage in the United States.

Are there any subscription fees associated with ADS-B weather?

No, there are no subscription fees and no registration required.

Can I get traffic information from Stratus?

No, traffic information is not available from Stratus.

Can I connect to the internet from Stratus?

No, Stratus is a one-way, receive-only device.

Does Stratus satisfy the 2020 ADS-B Out requirement?

No, this is an ADS-B In only product.

Can I receive satellite radio with Stratus?

No, Stratus is not equipped to receive satellite radio signals.

What weather products are available? What is their range? How often are they updated?

See Aeronautical Information Manual, Section 7.1.11.

Product	Range	Update intervals
NEXRAD composite reflectivity	Contiguous US 250 NM	15 minutes 2.5 minutes
AIRMETs	100 NM, airport surface 500 NM en route/ terminal	5 minutes
SIGMETs and Convective SIGMETs	100 NM airport surface 500 NM en route/ terminal	5 minutes
METARs	100 NM airport surface 500 NM en route/ terminal	5 minutes
NOTAM(D) and FDC NOTAM (including TFR)	100 NM	10 minutes
PIREPs	500 NM en route/ terminal	10 minutes
Special Use Airspace	500 NM en route/ terminal	10 minutes
TAF	100 NM airport surface 500 NM en route/ terminal	10 minutes
Wind/temperature aloft	1000 NM	10 minutes

Are there different types of ADS-B ground stations?

Yes, there are four different types of ADS-B ground stations: surface, low altitude, medium altitude, and high altitude.

Station Type	Weather Products Available and Range
Surface	500 NM winds and temperature aloft, 100 NM METAR, TAF, SIGMET, NOTAM, 150 NM Regional NEXRAD
Low altitude	500 NM winds and temperature aloft 250 NM METARs, TAFs, AIRMET, SIGMET, PIREP, SUA 150 NM regional NEXRAD 100 NM NOTAM (no CONUS NEXRAD)
Medium altitude	Entire CONUS NEXRAD, 750 NM winds and tmperature aloft, 375 NM METARs, TAFs, AIRMET, SIGMET, PIREP, SUA, 200 NM regional NEXRAD 100 NM NOTAM
High altitude	Entire CONUS NEXRAD, 1000 NM winds and temperature aloft, all 158 CONUS Class B/C airport METAR/TAF 500 NM AIRMET, SIGMET, PIREP, SUA 250 NM regional NEXRAD 100 NM NOTAM

At what altitude will I receive weather data?

The altitude Stratus begins to receive weather will vary depending on the number of nearby towers, terrain, and the obstacles that may be between Stratus and a tower.

For more FAQs, go to:

- **www.appareo.com/stratus**

- **www.sportys.com/stratus**

- **www.foreflight.com/stratus**

Data

- Use of personal electronic devices while in-flight may pose a safety hazard. Use of Stratus on an operating aircraft is subject to approval by the Pilot in Command.

- ADS-B weather information is provided within the United States only.

- Position information provided by Stratus should be used for situational awareness only and should not be used as your primary navigation source.

- Weather information provided by Stratus is delayed, may not always be available and should be used for situational awareness and not for tactical decisions.

Battery

- Do not store Stratus in environments where temperatures exceed 45°C (113°F) or are lower than -20°C (-4°F). Do not operate Stratus in environments where temperature exceed 35°C (95°F) or are lower than 0°C (32°F) Battery performance will be negatively affected if these temperature thresholds are exceeded.

- Do not store Stratus in direct sunlight.

- Stratus contains a lithium battery. Do not disassemble the device. Do not incinerate or puncture the device or the battery.

- Ensure that disposal of Stratus is in accordance with local requirements for the recycling of electronic appliances and batteries.

- Check with current FAA rules before carrying device on checked luggage.

To view the warranty for Stratus, go to www.appareo.com/stratus

This system incorporates elements of the UBR technology developed by the Mitre Corporation on behalf of the U.S. Government.

MITRE
TECHNOLOGY APPLIED

SUPPORT

Sporty's
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