![uAvionix logo]

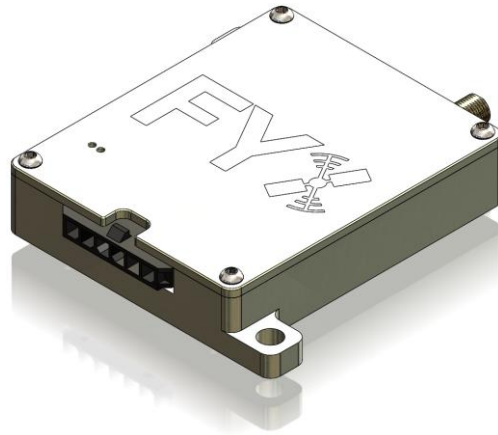**SkyFYX WAAS GPS navigation source**

SkyFYX

Overview

SkyFYX combines a high precision WAAS GNSS sensor with an integrated RAIM processor. Resilient against jamming, spoofing and GPS range errors—SkyFYX provides reliable navigation in challenging environments. SkyFYX is the most affordable ADS-B rule-compliant position source companion for the echoUAT ADS-B transceiver.

The SkyFYX meets the performance requirements of 14 CFR 91.227. For use in Experimental and LSA aircraft.
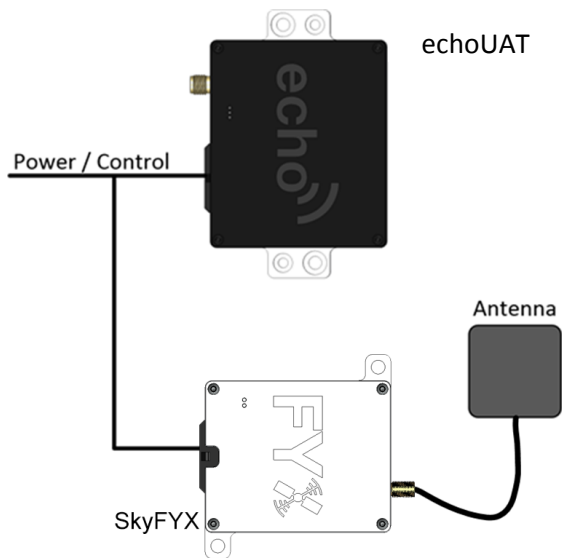
Features

- Performs in low sensitivity or high GPS multipath areas.
- Battery backup fast TTFF.
- Directly connects to EchoUAT transceiver.
- UTC timing output for multiple uses including UAT ADS-B medium synchronization.
- Integrated RAIM processor for Security and Integrity Protection.
- Advanced jamming and spoofing detection.
- Uses SBAS corrections and health messages to detect and correct satellite range errors.
- Satellite pseudo-range step errors detected and excluded.
- SBAS fast and long term corrections applied.
- Patents pending.

Technical Specifications

Specification	Value
Input Power	11-33V DC
Size	61x65x13mm
Weight	36grams
SDA/SIL	2/3
Operating Temp	-45 to 80°C
Sensitivity	
Tracking	-166dBm
Reacquisition	-160dBm
Cold Start	-148dBm
Hot Start	-156dBm
Quality	
SDA	2
SIL	3
NIC	7 – 0.2NM
NACp	11 – EPU < 3meters
NACv	1 – 10 m/s
COM1 Interface	
Protocol	NMEA + RAIM
Physical	RS232 115200bps

SkyFYX WAAS GPS navigation source

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Typical Configuration

echoUAT

Power / Control

Antenna

SkyFYX

Connections

Pin	Type	Rate
1	Ground	
2	Power	11-33V
3	RS232 Out	NMEA
Molex 0436450600		

Mechanical Specification

60.50
45
2X ⌀4.10
47.50
63.61
55
53

12.75
11.50
4
5.88