Setting up a uAvionix ECHO UAT with a legacy mode C transponder

Gary Hertzler EAA chapter 228 April 24, 2018

uAvionix ECHO UAT

- Recieves both 1090 and 978 mh (weather and traffic)
- Transmits out on 978 mh
- Keep your Mode C or S transponder
- Use a stand alone GPS from uAvionix your existing WAAS GPS
- Support for popular iPad and Android Apps
- This presentation addresses the installation with a legacy transponder and external GPS

What's included

- Included with the echoUAT+SkyFYX-EXT bundle:
- echoUAT ADS-B Transceiver
- wiring harness
- SMA to BNC lead
- UAT(978) antenna
- SkyFYX-EXT All-in-One GPS Receiver and Antenna





Download the Echo Support Material

- User and Installation guide
 - http://uavionix.com/downloads/echouat/echoUAT-User-and-Installation-Guide.pdf
- ECHO app



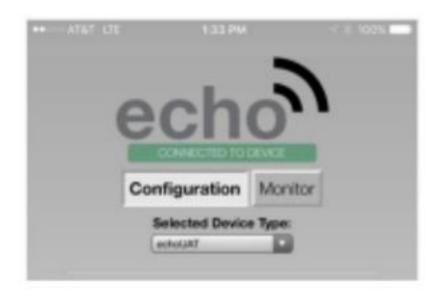






Launch the Echo App

 Turn off cellular data and connect to the Echo through wifi



Enter Configuration data

Select type of device : echo UAT

Control: UAT TX enabled

ICAO number (hex): your ICAO number*

Call Sign: Your N number

Flight Plan ID: leave blank

CSID Logic: Enable

Anonymous Mode: Disabled

Emmitter Category: Light Plane

VFR Code: 1200

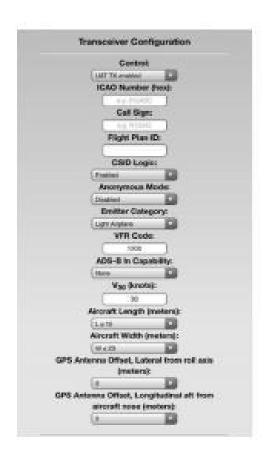
ADS-B In Capability: Both 1090/978 MH

Vso (knots): your aircraft stall speed

Aircraft Length: less than 15 meters

Aircraft Width: less than 23 meters

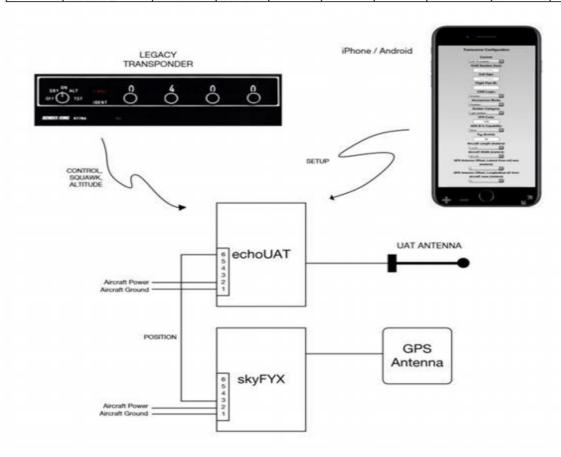
GPS antenna offset Lat and Lon: both 0



*http://registry.faa.gov/aircraftinquiry/NNum_Inquiry.aspx

Configuration Data (cont)

Contract of the Contract of th	Control Source	GPS Source		COM1 Rate	COM1 Data		COM1 Protocol	100000000000000000000000000000000000000	COM2 Protocol
APP	Transponder Monitor	External COM2	1000 C 10	27.527.27.27	N/A	N/A	N/A	115200	NMEA

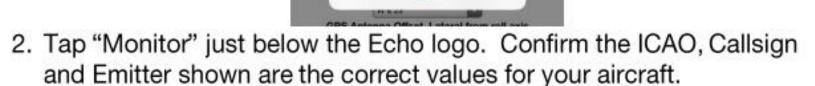


And Finally

 After entering the correct information for all fields press Update. You should receive a message confirming the configuration. Tap OK.

> Updated Device Configured

> > OK



3. Programming of the echoUAT is now complete.