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echoUAT ADS-B Transceiver

Overview

The echoUAT is a Class B1S ADS-B UAT transmitter coupled with a dual-link 1090MHZ / UAT receiver for Experimental and Light Sport Aircraft. An integrated Wi-Fi system transmits traffic and weather to popular Electronic Flight Bag (EFB) applications on iOS and Android. Direct interface support for common EFIS systems such as GRT, MGL, AFS and more. A zero-install, power transcoder decodes replies from legacy Mode C and Mode S transponders via DC pulses for maximum retro-fit capability. Extensive position source compatibility, including the uAvionix skyFYX GPS and many other third-party panel GPS options.

The echoUAT meets the performance requirements of TSO-C154c and FAR 91.227 when installed in EXP and LSA aircraft.

Features

- UAT Transmitter. Meets the performance requirements of TSO-154c Class B1S.
- Dual-Link ADS-B receiver. Receives legacy 1090MHz ADS-B traffic and UAT traffic and uplink data. Meets the MOPS of DO-260B and DO-282B.
- Integrated Wi-Fi to transmit In-flight weather, NEXRAD radar, METARs, TAFs, TFRs, AIRMETs, SIGMETs and NOTAMS to EFB applications.
- Setup Interface Options
    - EFIS (MGL, GRT, AFS)
    - iOS/Android (GDL90)
- Mode, Squawk, Altitude. Ident
    - EFIS (GRT, MGL)
    - Direct (Sandia, SL-70, Garmin)
    - Power Transcoder
- GPS Position
    - EFIS (MGL, GRT, AFS)
    - External GPS (skyFYX, Garmin WAAS GPS)
- Traffic and UAT FIS-B (Weather) Services
    - iOS/Android (GDL90 Compliant)
    - EFIS (AFS, MGL, GRT)
- SMA UAT Antenna Connector
- US Patents Pending

Regulatory

- FCC ID 2AFFTUAT016
- DO-260B, DO-282B Class B1S

Technical Specifications

Specification	Value
Input Power	11-33V DC
Size	55x65x19mm
Weight	60grams
SIL/SDA	3/2
Operating Temp	-45 to 70°C
978MHz UAT Transceiver	
Transmit Power	20Watts Nominal
Receiver Sensitivity	-91dBm
1090MHz Receiver	
Sensitivity	-79dBm to 0dBm
COM1 Interface	
Devices	MGL, GRT, AFS, Garmin
Function	Setup, Control, GPS Position
Physical	RS-232 or RS-485
COM2 Interface	
Protocols	NMEA, ADS-B+
Function	GPS Position, Traffic, FIS-B
Physical	RS-232
Wi-Fi	
Protocols	GDL 90
Function	Setup, Traffic, FIS-B
Physical	802.11b/g/n
Power Transcoder	
Decodes Mode A and Mode C via DC input	

ECCN 7A994

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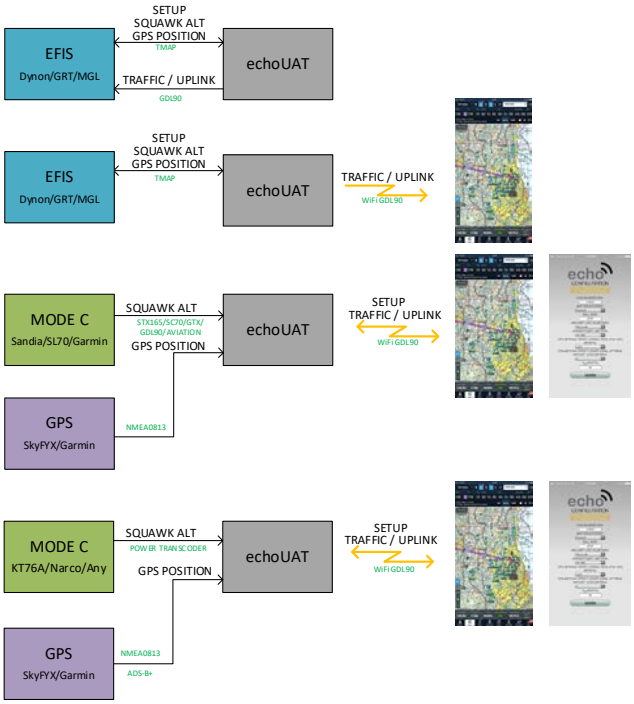
Typical Configurations



Electronic Flight Bag Applications

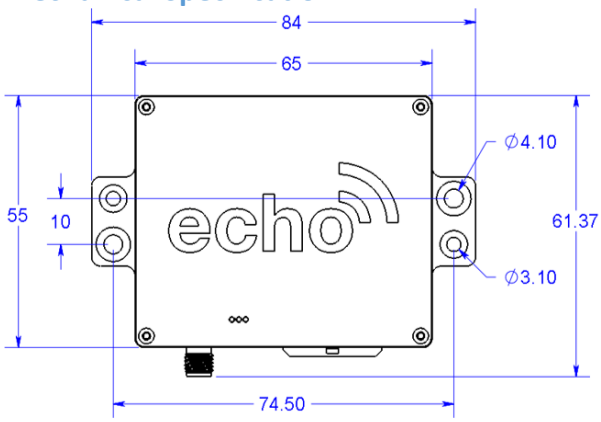
Supported Electronic Flight Bag Applications

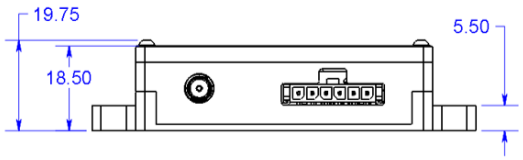
Aerovie, Avare, DroidEFB, EasyVFR, Fltplan Go

FlyQ EFB, ForeFlight, iFlightPlanner, iFly, Naviator

SkyDemon, WingX

Mechanical Specification





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