

Overview

The echoUAT is a Class B1S ADS-B UAT transmitter coupled with a dual-link 1090MHZ / UAT receiver. 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 Dynon SkyView, GRT and MGL. A zero-install, power transcoder decodes replies from legacy Mode C transponders via DC pulses for maximum retro-fit capability. Extensive position source compatibility, including the uAvionix SKYFYX GPS.

The echoUAT meets the performance requirements of 14 CFR 91.227.



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 (Dynon, MGL, GRT, AFS)
 - iOS/Android (GDL90)
- Mode, Squawk, Altitude. Ident
 - EFIS (Dynon, MGL)
 - Direct (Sandia, Garmin)
 - Power Transcoder
- GPS Position
 - EFIS (Dynon, 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 Antenna Connector
- US Patents Pending

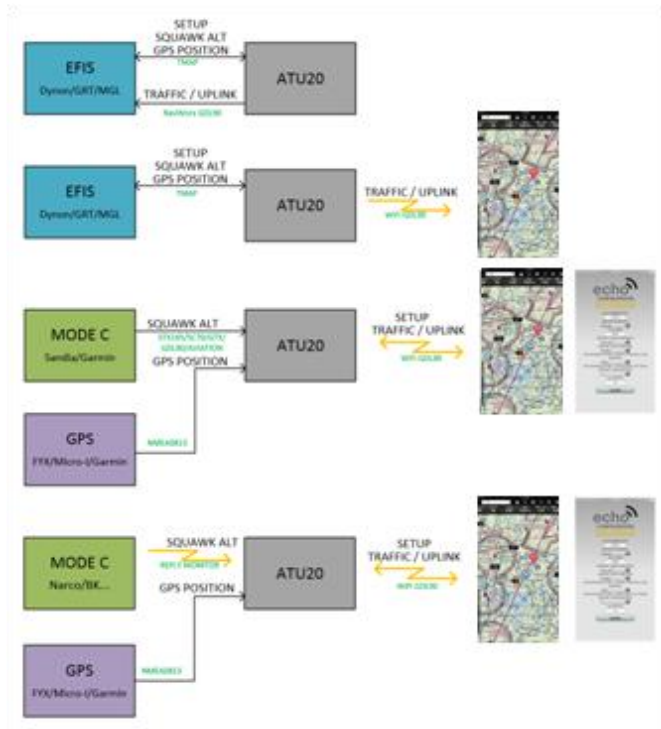
Regulatory

- FCC ID 2AFFTUAT016
- DO-260B, DO282B Class B1S

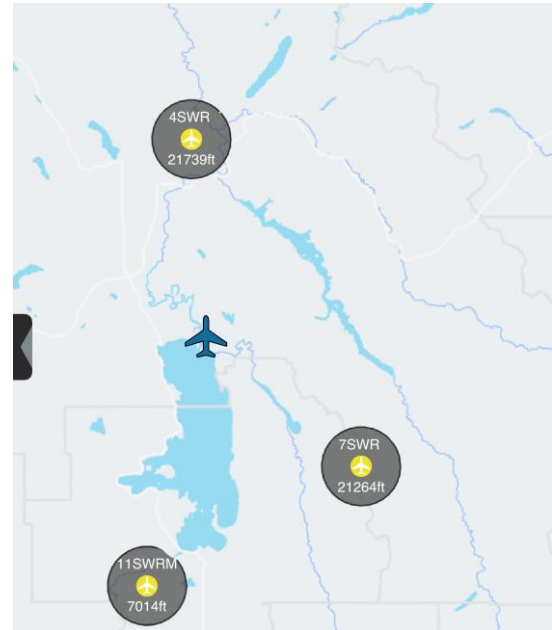
Technical Specifications

Specification	Value
Input Power	11-33V DC
Size	55x65x19mm
Weight	60grams
SIL/SDA	3/2
Operating Temp	-45 to 80°C
978MHz UAT Transceiver	
Transmit Power	20Watts Nominal
Receiver Sensitivity	-91dBm
1090MHz Receiver	
Sensitivity	--79dBm to 0dBm
COM1 Interface	
Devices	Dynon, MGL, GRT, AFS, Garmin
Function	Setup, Control, GPS Position
Physical	RS232 or RS485
COM2 Interface	
Protocols	NMEA, ADS-B+
Function	GPS Position, Traffic, FIS-B
Physical	RS232
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	

Typical Configurations



Typical IOS Electronic Aviation App



Supported Aviation Apps



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Mechanical Specification

