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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>11-33V DC</td>
</tr>
<tr>
<td>Size</td>
<td>55x65x19mm</td>
</tr>
<tr>
<td>Weight</td>
<td>60grams</td>
</tr>
<tr>
<td>SIL/SDA</td>
<td>3/2</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>-45 to 80°C</td>
</tr>
<tr>
<td><strong>978MHz UAT Transceiver</strong></td>
<td></td>
</tr>
<tr>
<td>Transmit Power</td>
<td>20Watts Nominal</td>
</tr>
<tr>
<td>Receiver Sensitivity</td>
<td>-91dBm</td>
</tr>
<tr>
<td><strong>1090MHz Receiver</strong></td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-79dBm to 0dBm</td>
</tr>
<tr>
<td><strong>COM1 Interface</strong></td>
<td></td>
</tr>
<tr>
<td>Devices</td>
<td>Dynon, MGL, GRT, AFS, Garmin</td>
</tr>
<tr>
<td>Function</td>
<td>Setup, Control, GPS Position</td>
</tr>
<tr>
<td>Physical</td>
<td>RS232 or RS485</td>
</tr>
<tr>
<td><strong>COM2 Interface</strong></td>
<td></td>
</tr>
<tr>
<td>Protocols</td>
<td>NMEA, ADS-B+</td>
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<tr>
<td>Function</td>
<td>GPS Position, Traffic, FIS-B</td>
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<tr>
<td>Physical</td>
<td>RS232</td>
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<tr>
<td><strong>Wi-Fi</strong></td>
<td></td>
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<tr>
<td>Protocols</td>
<td>GDL 90</td>
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<tr>
<td>Function</td>
<td>Setup, Traffic, FIS-B</td>
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<tr>
<td>Physical</td>
<td>802.11b/g/n</td>
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</tbody>
</table>

**Power Transcoder**
Decodes Mode A and Mode C via DC input

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**Typical Configurations**

- **EFIS**
  - Dynavoy/GRT/NGA
  - Setup SQUAWK ALT GPS POSITION
  - TRAFFIC / UPLINK
  - Army/NAVCOM
- **EFIS**
  - Dynavoy/GRT/NGA
  - Setup SQUAWK ALT GPS POSITION
  - TRAFFIC / UPLINK
  - Army/NAVCOM
- **MODE C**
  - X-mode/ANX
  - Setup SQUAWK ALT GPS POSITION
  - TRAFFIC / UPLINK
- **GPS**
  - FIX/Micro U/Garmin
  - Setup SQUAWK ALT GPS POSITION
  - TRAFFIC / UPLINK

**Typical IOS Electronic Aviation App**

**Mechanical Specification**

- Dimensions: 84 x 65 x 30
- Hole Diameter: 4.10
- Thickness: 0.310
- Length: 74.50
- Width: 61.37
- Height: 19.75

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