European Aviation Safety Agency

European Technical Standard Order

Subject: Universal Access Transceiver (UAT) Automatic Dependent Surveillance - Broadcast (ADS-B) Equipment Operating on the Frequency of 978 MHz

1 - Applicability
This ETSO gives the requirements which Universal Access Transceiver (UAT) Automatic Dependent Surveillance - Broadcast (ADS-B) Equipment Operating on the Frequency of 978 MHz that are manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 - Procedures
2.1 - General
Applicable procedures are detailed in CS-ETSO Subpart A.

2.2 - Specific
None.

3 - Technical Conditions
3.1 - Basic
3.1.1 - Minimum Performance Standard

3.1.2 - Environmental Standard
See CS-ETSO Subpart A paragraph 2.1.

3.1.3 - Computer Software
See CS-ETSO Subpart A paragraph 2.2.

3.1.4 - Electronic Hardware Qualification
See CS-ETSO Subpart A paragraph 2.3.

3.2 - Specific
3.2.1 Failure Condition Classification
See CS-ETSO Subpart A paragraph 2.4.
Failure of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a major failure condition.
4 - Marking

4.1 - General
Marking as detailed in CS-ETSO Subpart A paragraph 1.2.

4.2 - Specific
Transmitting and receiving components must be permanently and legibly marked. The following table explains how to mark components. Find the equipment class in RTCA/DO-282B, Section 2.1.11.

<table>
<thead>
<tr>
<th>If component can:</th>
<th>Mark it with:</th>
<th>Sample marking pattern:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit and receive</td>
<td>Equipment class it supports</td>
<td>Class A1H or Class A3</td>
</tr>
<tr>
<td>Transmit, but not receive</td>
<td>Equipment class it supports</td>
<td>Class B1 or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class A3 - Transmit Only</td>
</tr>
<tr>
<td>Receive, but not transmit</td>
<td>Equipment class it supports</td>
<td>Class A2 - Receive Only</td>
</tr>
<tr>
<td>Perform the optional frequency diplexer function developed under this ETSO</td>
<td>The words “UAT Diplexer,” Maximum amplitude attenuation between the antenna port (A) and UAT port (U) of the diplexer, and Maximum amplitude attenuation between the antenna port (A) and transponder port (T) of the diplexer</td>
<td>UAT Diplexer A/U -0.x dB A/T -0.x dB</td>
</tr>
</tbody>
</table>

5 - Availability of Referenced Document
See CS-ETSO Subpart A paragraph 3.