



FAA APPROVED

APPROVED MODEL LIST

for

Aircell Broadband Services (ABS)
System Installation

STC ST03682AT

FAA Approved: _____ Date: _____

Manager
Atlanta Aircraft Certification Office
Federal Aviation Administration
Atlanta, GA

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RECORD OF REVISIONS

Rev	Pages Affected	Description Of Revision	Date	Approvals
IR	All	New Document/Initial Release	3/31/09	Rick Jones
A	4 5 & 6 6	Replaced STC Project No. with STC No. Added 717-200 Moved ICA to Limitations Section for 737	5/8/2009	Michael Cann
B	5 & 6 8	Added 737-800/ -900 to Certification Basis Added 737-800/ -900 to Approved Models Table	4/28/2010	Rick Jones
C	8	Revised Note 1.	01/07/2011	Rick Jones
D	6 7 8 9	Added 737-400 to Certification Basis Changed revision level of R44-0497 from A to IR. Changed revision level of R44-0497 from C to A. Added 737-400 to Approved Models Table	4/1/2011	Rick Jones
E	6 7 8 10	Added section 2.5. Changed ICA Limitations section from 8 to 7. Added new row for 737-700 using ICA R53-0530. Changed AML Amendment revision from B-C for 737-800. Added 757-200.	3/2/2012	Robert Capezzuto
F	6 11	Added -900ER to paragraph 2.3 New page to add -900ER AML data	12/3/2012	TBD

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1 Introduction

1.1 Summary

This document is the FAA Approved Model List for FAA STC ST03682AT for installation of the Aircell Broadband Services (ABS) System for passenger personal communications into eligible aircraft. Revisions to the AML must be coordinated between the STC holder and the responsible FAA ACO and require FAA approval.

This STC is applicable to the Part 25 aircraft which are listed in this AML. Installations in Part 23, Part 27 and Part 29 aircraft are not authorized under this STC.

1.2 Abbreviations/Definitions

Abbreviation	Definition
ABS	Aircell Broadband Services
AML	Approved Model List
CFR	Code of Federal Regulations
EO	Engineering Order
FAA	Federal Aviation Administration
STC	Supplemental Type Certificate
TCDS	Type Certificate Data Sheet

2 Certification Basis

The Certification Basis for each applicable aircraft model qualified for this modification is listed below:

2.1 Boeing 737-700/-700IGW

The type certification basis for Boeing 737-700 /-700 IGW Series airplanes is shown on TCDS A16WE for parts **not changed or not affected** by the change.

The certification basis for parts **changed or affected** by the change since the reference date of application, October 14, 2008, is based upon part 25 as amended by Amendment 25-125. Based on 14 CFR §§ 21.101 and 21.115, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-1 through 25-125:

25.23, 25.29, 25.301, 25.303, 25.305, 25.307, 25.365, 25.561, 25.571, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.623, 25.625, 25.789, 25.853, 25.869, 25.901, 25.1301, 25.1309, 25.1351, 25.1353, 25.1357, 25.1431, 25.1529, 25.1541, 25.1581, 25.1583, 25.1585, 25.1587

Regulations at the latest amendment 26-0 through 26-1:

26.11, 26.47

2.2 Boeing 717-200

The type certification basis for Boeing 717-200 Series airplanes is shown on TCDS A6WE for parts **not changed or not affected** by the change.

The certification basis for parts **changed or affected** by the change since the reference date of application, October 14, 2008, is based upon part 25 as amended by Amendment 25-125. Based on 14 CFR §§ 21.101 and 21.115, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-1 through 25-125:

25.23, 25.29, 25.301, 25.303, 25.305, 25.307, 25.365, 25.561, 25.571, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.623, 25.625, 25.789, 25.853, 25.869, 25.901, 25.1301, 25.1309, 25.1351, 25.1353, 25.1357, 25.1431, 25.1529, 25.1541, 25.1581, 25.1583, 25.1585, 25.1587

Regulations at the latest amendment 26-0 through 26-1:

26.11, 26.47

2.3 Boeing 737-800/-900/-900ER

The type certification basis for Boeing 737-800/-900/-900ER Series airplanes is shown on TCDS A16WE for parts **not changed or not affected** by the change.

The certification basis for parts **changed or affected** by the change since the reference date of application, October 14, 2008, is based upon part 25 as amended by Amendment 25-125. Based on 14 CFR §§ 21.101 and 21.115, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-1 through 25-125:

25.23, 25.29, 25.301, 25.303, 25.305, 25.307, 25.365, 25.561, 25.571, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.623, 25.625, 25.789, 25.853, 25.869, 25.901, 25.1301, 25.1309, 25.1351, 25.1353, 25.1357, 25.1431, 25.1529, 25.1541, 25.1581, 25.1583, 25.1585, 25.1587

Regulations at the latest amendment 26-0 through 26-1:

26.11, 26.47

2.4 Boeing 737-400

The type certification basis for Boeing 737-400 Series airplanes is shown on TCDS A16WE for parts **not changed or not affected** by the change.

The certification basis for parts **changed or affected** by the change since the reference date of application, October 14, 2008, is based upon part 25 as amended by Amendment 25-125. Based on 14 CFR §§ 21.101 and 21.115, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

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Regulations at the latest amendment 26-0 through 26-1:

26.11, 26.47

2.5 Boeing 757-200

The type certification basis for Boeing 757-200 Series airplanes is shown on TCDS A2NM for parts **not changed or not affected** by the change.

The certification basis for parts **changed or affected** by the change since the reference date of application, October 14, 2008, is based upon part 25 as amended by Amendment 25-125. Based on 14 CFR §§ 21.101 and 21.115, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-1 through 25-125:

25.23, 25.29, 25.301, 25.303, 25.305, 25.307, 25.365, 25.561, 25.571, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.625, 25.853, 25.1301, 25.1309, 25.1351, 25.1353, 25.1357, 25.1431, 25.1529, 25.1541, 25.1581, 25.1583, 25.1585, 25.1587

Regulations at the latest amendment 26-0 through 26-1:

26.11, 26.47

3 Approved Models

Aircell STC ST03682AT is approved for installation on the following Aircraft Models:

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Boeing	737-700, 737-700IGW (See Note 2)	A16WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. F Dated 03-20-2009</p> <p>AFM Supplement: R44-0497 Rev. B Dated 01-07-2011 Installation EO: E44-0120 (Structural) Rev. IR E44-0121 (Electrical) Rev. IR</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R44-0495 Rev. B Section 7</p> <p>Also see Note 1 for additional limitations.</p>	Revision IR Dated 03-31-2009

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Boeing	737-700, 737-700IGW (See Note 2)	A16WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. R Dated 04-23-2010</p> <p>AFM Supplement: R44-0497 Rev. B Dated 01-07-2011 Installation EO: E44-0140 (Structural) Rev. IR E44-0141 (Electrical) Rev. IR</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R44-0530 Rev. A Section 8</p> <p>Also see Note 1 for additional limitations.</p>	Revision C Dated 01-07-2011
Boeing	717-200	A6WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. J Dated 05-07-2009</p> <p>AFM Supplement: R44-0496 Rev. A Dated 04-17-2009 Installation EO: E44-0122 (Structural) Rev. IR E44-0123 (Electrical) Rev. A</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R44-0494 Rev. H Section 7</p>	Revision A Dated 05-08-2009

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Boeing	737-800	A16WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. R Dated 04-23-2010</p> <p>AFM Supplement: R44-0497 Rev. B Dated 01-07-2011 Installation EO: E44-0131 (Structural) Rev. IR E44-0132 (Electrical) Rev. IR</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R53-0530 Rev. A Section 8</p> <p>Also see Note 1 for additional limitations.</p>	Revision C Dated 01-07-2011
Boeing	737-900	A16WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. R Dated 04-23-2010</p> <p>AFM Supplement: R44-0497 Rev. B Dated 01-07-2011 Installation EO: E44-0133 (Structural) Rev. IR E44-0134 (Electrical) Rev. IR</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R53-0530 Rev. A Section 8</p> <p>Also see Note 1 for additional limitations.</p>	Revision C Dated 01-07-2011

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Boeing	737-400	A16WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. Z Dated 11-03-2010</p> <p>AFM Supplement: R44-0539 Rev. IR Dated 03-28-2011 Installation EO: E44-0137 (Structural) Rev. IR E44-0138 (Electrical) Rev. IR</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R53-0577 Rev. B Section 8</p>	Revision D Dated 04-01-2011
Boeing	757-200	A2NM	<p><u>Approved Data</u> Master Data List: R44-0586 Rev. D Dated 11-15-2011</p> <p>AFM Supplement: R44-0583 Rev. IR Dated 03-02-2012 Installation EO: E44-0151 (Structural) Rev. IR E44-0150 (Electrical) Rev. IR</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R44-0593 Rev. A Section 8</p>	Revision E Dated 03-02-2012

Aircraft Make	Aircraft Model	Type Certificate Number	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Boeing	737-900ER	A16WE	<p><u>Approved Data</u> Master Data List: R44-0493 Rev. AB Dated 10-17-2012</p> <p>AFM Supplement: R44-0497 Rev. B Dated 01-07-2011 Installation EO: E44-0133 (Structural) Rev. A E44-0134 (Electrical) Rev. B</p> <p><u>Limitations:</u> Instructions for Continued Airworthiness: R53-0530 Rev. B Section 8</p> <p>Also see Note 1 for additional limitations.</p>	Revision F Dated 12-03-2012

Table 1: Approved Models

Note 1: Honeywell Display Unit, P/N 4091900-xxx (Example P/Ns 4091900-931, 4091900-932, 4091900-933 and 4091900-934), exhibited susceptibility during 4 watt EIRP Personal Electronic Devices (PEDs) wireless emission tests. Installation of the Aircell ABS on aircraft with these displays requires prohibition of use of Wi-Fi devices on the flight deck when engines are operating for the purposes of flight.

Note 2: Customer specific configuration. See ICA document listed for aircraft effectivities.