



United States of America
Department of Transportation
Federal Aviation Administration
Supplemental Type Certificate

Number: ST03362AT

This certificate issued to: Aircraft Radio & Avionics, LLC
5415 NW 36th Street
Miami Springs, FL 33166

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product – Type Certificate Number: A16WE

Make: Boeing

Model: 737-200, -300, -400, -500

Description of Type Design Change: Installation of a dual Universal Avionics UNS-1F Flight Management System (FMS), or UNS-1Fw WAAS capable FMS, on Boeing 737-200/300 aircraft without EFIS (Configuration I), or Boeing 737-300/400/500 aircraft with original Honeywell or Collins EFIS (Configuration II). Installation includes 2 Navigation Computer Units (NCU) in the EE bay, 2 pilot & Co-Pilot Control Display Units (CDU) in the Center pedestal, and 2 GPS antennas. Nav data can be selected & displayed on the Multi Function Display (MFD) installed in the center pedestal. A data concentrator unit is installed to interface the 2 NCU's to the MFD (Configuration I only). 2 DAC International protocol convertors are installed to interface the Auto-Pilot in Configuration 2 only. This installation will be in accordance with ARC Avionics Master Data List 752-120605, Rev-C, dated April 2, 2009, or later FAA approved revisions for Configuration I, or in accordance with Master Data List 752-022310, Rev-D, dated May 20, 2013 or later FAA approved revisions for Configuration II.

Limitations and Conditions: "Part of this STC is FAA Approved Flight Manual Supplement, ARC Avionics 732-120605, Rev-B, dated May 7, 2009, or later FAA approved revisions for Configuration I, or ARC Avionics 732-022310, Rev-C, dated June 28, 2013, or later FAA approved revisions for Configuration II.

(See continuation sheet 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: October 30, 2006

Date Reissued: May 23, 2017, July 18, 2017

Date of Issuance: December 01, 2006

Date Amended: May 30, 2008, May 07, 2009, July 27, 2010,

June 28, 2013

By Direction of the Administrator

Signature

Title (for) Christina M. Underwood, Manager
Atlanta Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Supplemental Type Certificate

(Continuation Sheet)

ST03362AT

Date of Issuance: December 01, 2006
Date Amended: June 28, 2013
Date Reissued: May 23, 2017, July 27, 2017

Limitations and Conditions (Continued):

For maintenance and inspections, Apply ARC Avionics Instructions for Continued Airworthiness 2-37356-903, Rev-B, dated October 19, 2006, or later FAA accepted revisions for Configuration I aircraft, or 742-022310, Rev-C, dated May 15, 2013, or later FAA approved revisions for Configuration II aircraft.

This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission."

Certification Basis: Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for parts changed or affected by the change since the reference date of application, October 30, 2006, is based upon the following Title 14 Part 25 Code of Federal Regulations and amendments:

§21.93 (b), Amdt. 21-27	§25.301 (a)(b)(c), Amdt. 25-23	§25.303, Amdt. 25-303
§25.305 (a)(b), Amdt. 25-86	§25.307 (a), Amdt. 25-72	§25.365 (a)(b)(c)(d)(e), Amdt. 25-87
§25.561 (a)(b)(c)(d), Amdt. 25-91	§25.601, Orig.	§25.603 (a)(b)(c), Amdt. 25-46
§25.605 (a)(b), Amdt. 25-46	§25.607 (a)(b)(c), Amdt. 25-23	§25.609 (a), Orig.
§25.611, Amdt. 25-123	§25.613 (a)(b)(c)(e), Amdt. 25-112	§25.869 (a)(3), Amdt. 25-123
§25.1301 (a), Amdt. 25-123	§25.1307 (c)(e), Amdt. 25-75	§25.1309 (a)(b)(c)(d)(e), Amdt. 25-123
§25.1316 (a)(c), Amdt. 25-134	§25.1321 (a)(d)(e), Amdt. 25-41	§25.1322 (a)(b)(c)(d)(e)(f), Amdt. 25-131
§25.1331 (a)(b), Amdt. 25-41	§25.1333 (c), Amdt. 25-41	§25.1351 (a), Amdt. 25-72
§25.1353 (a)(c), Amdt. 25-123	§25.1357 (a)(c)(d)(e) Amdt. 25-123	§25.1381 (a)(b), Amdt. 25-72
§25.1431 (a)(b)(c)(d), Amdt. 25-113	§25.1501 (a)(b), Amdt. 25-42	§25.1519, Orig.
§25.1523 (a)(b), Amdt. 25-3	§25.1529, Amdt. 25-54	§25.1541, Orig.
§25.1543 (b), Amdt. 25-72	§25.1581 (a)(b)(d) Amdt. 25-72	§25.1585 (a)(b), Amdt. 25-105

14 CFR Part 26 regulations: Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR Part 26 are included in the certification basis. For any future 14 CFR 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations: 14 CFR §§ 26.11 (Amdt 26-0), 26.47 (Amdt 26-1).

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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).