



United States of America  
Department of Transportation  
Federal Aviation Administration

## Supplemental Type Certificate

Number: *ST04184AT*

This certificate issued to: Avionics Support Group, Inc.  
13155 SW 132 Avenue  
Miami, FL 33186

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: A20WE

Make: The Boeing Company  
Model: 747-200/-300/-400/-8 Series

*Description of Type Design Change:*

Installation of a Constant Friction Mount with an Integrated Power Supply (IPS) on Boeing B747-200/-300/400/-8 Series Aircraft in accordance with Avionics Support Group, Inc. Master Data List 214042-MDL, Rev. H, dated January 16, 2019, or later FAA approved revision.

*Limitations and Conditions:*

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. 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.
3. Instructions for Continued Airworthiness (ICA) document 214042-ICA, Rev. C, dated April 9, 2018 or later, and FAA Approved Airplane Flight Manual Supplement 214256-FMS, dated November 13, 2019 or later Approved Revisions must be made available to the operator at the time of installation.

*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: March 10, 2014

Date Reissued:

Date of Issuance: December 19, 2014

Date Amended: December 03, 2019

By Direction of the Administrator

Signature

Title: (for) Christina M. Underwood  
Manager, Atlanta ACO Branch

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)

Number: ST04184AT

## 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 the Boeing 747-200/-300/-400/-8 series aircraft is as follows:

- The type certification basis for Boeing 747-200/-300/-400/-8 airplane is shown on TCDS A20WE 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, March 10, 2014, is based upon part 25 as amended by Amendment 25-124. 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 this modification was determined to be:

### Regulations at the latest amendment 25-0 through 25-124

§ 25.29	§ 25.301	§ 25.303	§ 25.305	§ 25.307	§ 25.561
§ 25.601	§ 25.603	§ 25.609	§ 25.611	§ 25.613	§ 25.625
§ 25.773	§ 25.777	§ 25.789	§ 25.807	§ 25.1301	§ 25.1307
§ 25.1309	§ 25.1351	§ 25.1353	§ 25.1355	§ 25.1357	§ 25.1431
§ 25.1529	§ 25.1541	§ 25.1581			

### Regulations at an intermediate amendment

None

### Regulations at the amendment level in TCDS A20WE

None

## 14 CFR Part 26 Regulations

Based on 14 CFR 21.101(g), applicable provision of 14 CFR part 26 are included in the certification basis. For any future 14 CFR part 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 regulation:  
14 CFR 26.11

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