

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

*Number* ST03141CH

*This certificate issued to* Electronic Cable Specialists Inc.  
5300 West Franklin Drive  
Franklin, WI 53132

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.* See Page 3 of 3 for complete certification basis.

*Original Product - Type Certificate Number :* A20WE  
*Make :* Boeing  
*Model :* 747-400 Series; 747-400F Series

*Description of Type Design Change:*

Installation of a Rosemount Aerospace, Inc. 8700E1 Class 3 Electronic Flight Bag (EFB) System in accordance with Electronic Cable Specialists Master Data List ECS-209908, Revision G, dated July 27, 2012, or later FAA approved revision.

*Limitations and Conditions:*

- 1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- 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) The Airplane Flight Manual Supplement as listed in Appendix A of Electronic Cable Specialists Master Data List, ECS-209908, Revision G, dated July 27, 2012, or later FAA approved revision, is required on board the modified aircraft.
- 4) STC ST02907CH, EZMount<sup>®</sup> mechanical mounting assemblies, must be installed prior to or in conjunction with this STC.

(Limitations and Conditions continued on Page 3 of 3.)

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

*Date of application :* October 21, 2011

*Date reissued :*

*Date of issuance :* August 14, 2012

*Date amended :*



*By direction of the Administrator*

(Signature)

Steven L. Lardinois  
Manager, Systems and Flight Test Branch  
Chicago Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST03141CH

*Date of issuance* : August 14, 2012

*Certification Basis:*

The certification basis for the changed Boeing 747-400 Series; 747-400F Series as described in this certificate is as follows:

- a. The type certification basis for the Boeing 747-400 Series; 747-400F Series is shown on TCDS A20WE for parts not changed or not affected by this change.
- b. The certification basis for the parts changed or affected by this change since the reference date of application, October 21, 2011, is shown on TCDS A20WE. In addition, the applicant has complied with 14 CFR Part 25 as amended by Amendment 25-102 and 14 CFR Part 26 as amended by Amendment 26-3. The certification basis for this modification was determined to be:

**Regulations at the latest amendment 25-0 through 25-102**

25.29(b); 25.301(a), (b); 25.303; 25.305(a), (b); 25.307(a); 25.561(c); 25.562(c)(5); 25.601; 25.603; 25.605(a); 25.607; 25.609; 25.611; 25.613(a); 25.619; 25.625(a); 25.771(a); 25.773(a)(1), (a)(2); 25.777(a); 25.785(c)(1), (e); 25.789(a); 25.803(c); 25.853(a); 25.869(a)(4); 25.981(a)(3); 25.1301; 25.1309(a), (b), (c), (d), (e), (g); 25.1322; 25.1333(c); 25.1351(a); 25.1353(a), (b); 25.1357(a), (c); 25.1381(a)(1), (a)(2); 25.1431; 25.1529; 25.1541; 25.1555(a); 25.1581(a), (b).

**Regulations at the latest amendment 26-0 through 26-3**

26.11(c); 26.47 This modification does not affect or create fatigue critical structure.

*Limitations and Conditions:* (continued)

- 5) The Rosemount Aerospace, Inc. EFB System is an approved Class 3 EFB system for use in hosting Type A, Type B, and Type C Airport Moving Map Display (AMMD) software applications following the guidance in Advisory Circular (AC) No.'s 120-76A and 20-159 (along with FAA Memo for Policy and Guidance for Class 3 EFB, dated September 29, 2009). Hosting other Type C software applications requires additional approval in accordance with the guidance in Advisory Circular (AC) No. 20-159, or other FAA approved guidance. Operational approval of the EFB system should follow the guidance in Advisory Circular (AC) No. 120-76A, or other FAA approved guidance.
- 6) In accordance with FAA Seattle Aircraft Certification Office dated August 3, 2011 [Refer to: 140S-11-202c], this modification is FAA approved as an Alternative Method of Compliance (AMOC) to the requirements of paragraph (g)(3) of Airworthiness Directive (AD) 2008-10-06 R1.
- 7) Equivalent Level of Safety Findings have been made for the following regulation(s):  
§ 25.773(a)(2), EFB Class 3 Installation (documented in Transport Airplane Directorate ELOS Memo ST7839CH-T-S-1)

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