

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

Number ST03332CH

This certificate issued to
Armstrong Aerospace
1437 Harmony Court
Itasca, IL 60143

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: A28NM
Make: Airbus
Model: A320-200 Series

Description of Type Design Change:

Installation of a Tune Box Wireless In-Flight Entertainment (IFE) System in accordance with Armstrong Aerospace Master Data List, Doc. No. DC104-9281-00, Revision D, dated May 8, 2014, or later FAA approved revision.

Limitations and Conditions:

- 1) The installer must determine whether this design change is compatible with previously approved modifications.
- 2) Modification in accordance with this STC requires prior or concurrent installation of Armstrong Aerospace STC ST03333CH, Installation of a Cobham SBB SATCOM System.
- 3) Modification in accordance with this STC requires prior or concurrent embodiment of STC ST03247CH, Certification of Compatibility with Cellular and Wireless Data Technologies, Master Data List Group 2 (Wireless Data Technologies only).
- 4) FAA Approved Airplane Flight Manual Supplement, Armstrong Aerospace Doc. No. DC303-9281-00, Revision -, approved May 9, 2014, or later FAA approved revision is required on board the modified aircraft.
- 5) This system is intended to provide wireless data technology services using portable electronic devices (PEDs) for passenger entertainment purposes. Any other intended function of this equipment will require a re-examination of the certification basis.
- 6) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

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: June 6, 2013

Date reissued:

Date of issuance: May 9, 2014

Date amended:



By direction of the Administrator

(Signature)

Brenda L. Litchfield
ODA Administrator
Envoy Aerospace, LLC ODA-831240-CE

(Title)

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

United States of America
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Supplemental Type Certificate
(Continuation Sheet)

Number ST03332CH

Date of issuance: May 9, 2014

Certification Basis: (continued)

The certification basis for the changed Airbus A320-200 Series aircraft as described in this certificate is as follows:

- a. The type certification basis for the Airbus A320-200 Series aircraft is shown on TCDS A28NM 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, June 6, 2013, is shown on TCDS A28NM. In addition, the applicant has complied with 14 CFR Part 25 as amended by Amendment 25-56 and 14 CFR Part 26 amended by Amendment 26-1.

Regulations as shown on TCDS A28NM [Amendment 25-0 through 25-56]

25.29(a)-(b); 25.301(a)-(b); 25.303; 25.305(a)-(b); 25.307(a); 25.561(c); 25.571(a)-(b); 25.601; 25.603(a)-(c); 25.605(a); 25.609(a); 25.611; 25.613(a)-(b); 25.619(a)-(c); 25.625(a); 25.789(a); 25.853(a)-(b); 25.981(a); 25.1301(a)-(d); 25.1307(c); 25.1309(a)-(b),(d),(g); 25.1351(a); 25.1353(a)-(b); 25.1357(a),(c),(d); 25.1359(d); 25.1431(a)-(c); 25.1501(a)-(b); 25.1529; 25.1557(a); 25.1581(a)-(b),(d); 25.1585(a)-(b).

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 Part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the latest amendment date of this STC, compliance has been found for the following regulations: 14 CFR §§ 26.11(c) [Amdt. No. 26-0]; 26.47(c) [Amdt. No. 26-1].

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