

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

*Number* ST04143CH

*This certificate issued to*  
Astronics 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:* A16WE  
*Make:* The Boeing Company  
*Model:* 737-700 Series; 737-800 Series; 737-900 Series; 737-900ER Series

*Description of Type Design Change:*

Installation a Telefonix Wireless In-Flight Entertainment (IFE) System in accordance with Astronics Armstrong Aerospace Master Data List, Doc. No. DC104-9734-00, Revision B, dated October 03, 2016, or later FAA approved revision.

*Limitations and Conditions:*

- 1) The installer must determine whether this design change is compatible with previously approved modifications.
- 2) FAA Approved Airplane Flight Manual Supplement, Astronics Armstrong Aerospace Doc. No. DC303-9734-00, Revision -, approved October 07, 2016, or later FAA approved revision is required on board the modified aircraft.
- 3) Modification in accordance with this STC requires prior or concurrent embodiment of STC ST03314CH, Certification of Compatibility with Cellular and Wireless Data Technologies.
- 4) 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.
- 5) In accordance with FAA Seattle Aircraft Certification letter dated September 26, 2016, [Refer to: 130S-16-235], aspects of this modification in accordance with Master Data List Doc. No. DC104-9734-00, Group 1, are FAA approved as an Alternate Method of Compliance (AMOC) with the requirements of paragraph (h) of Airworthiness Directive (AD) 2009-12-06.
- 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:* May 04, 2016

*Date reissued:*

*Date of issuance:* October 07, 2016

*Date amended:*



*By direction of the Administrator*

(Signature)

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

(Title)

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST04143CH

*Date of issuance:* October 07, 2016

*Certification Basis:* (continued)

The certification basis for the changed Boeing 737-700 Series, 737-800 Series, 737-900 Series, 737-900ER Series aircraft as described in this certificate is as follows:

- a. The type certification basis for the Boeing 737-700 Series, 737-800 Series, 737-900 Series, 737-900ER Series aircraft is shown on TCDS A16WE 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, May 04, 2016, is shown on TCDS A16WE. The applicant has complied with 14 CFR Part 25 as amended by Amendment 25-108 and 14 CFR Part 26 amended by Amendment 26-1.

**14 CFR Part 25 Regulations at the latest amendment 25-0 through 25-108**

25.29(a)-(b); 25.301(a)-(b); 25.303; 25.305(a)-(b); 25.307(a); 25.561(c); 25.601; 25.603(a)-(c); 25.605(a); 25.609(a)-(b); 25.611; 25.613(a)-(b); 25.619(a)-(c); 25.625(a); 25.789(a); 25.813(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), (d); 25.1357(a), (c), (d); 25.1431(a)-(c); 25.1501(a)-(b); 25.1529; 25.1581(a), (b), (d); 25.1585(a)-(b).

**14 CFR Part 25 Regulations at other amendment levels**

737-700 Series, 737-800 Series, 737-900 Series: 25.571(a), (b) [Amdt 25-72]; 25.853(a) [Amdt 25-116]; 25.869(a)(4) [Amdt 25-113].

737-900ER Series: 25.571(a), (b) [Amdt 25-96]; 25.853(a) [Amdt 25-116]; 25.869(a)(4) [Amdt 25-113].

**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].

-----END-----