



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST00758DE

This certificate issued to: LiveTV
700 S. Babcock St.
Melbourne, Florida 32901

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: 737-900 Series, 737-900ER Series, 737-800 Series, 737-700 Series

Description of Type Design Change:

Installation of the LiveTV Ka-Band Connectivity System in accordance with LiveTV Master Data List (MDL) 73SK8002-MDL, Revision T, dated December 18, 2015, or later FAA approved revisions. This STC allows for the installation of the complete Ka-Band Connectivity System or a portion of the system per the following approved installation configurations:

- 737K8002-IDL, B737-700 Complete Ka Band Connectivity System
738K8002-IDL, B737-800 Complete Ka Band Connectivity System
739K8002-IDL, B737-900/-900ER Complete Ka Band Connectivity System
737K8004-IDL, B737-700 Ka Band Oasis Configuration (WLAN System only)
738K8004-IDL, B737-800 Ka Band Oasis Configuration (WLAN System only)
739K8004-IDL, B737-900/-900ER Ka Band Oasis Configuration (WLAN System only)

Limitations and Conditions:

- The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configurations will not introduce any adverse effect upon the airworthiness of the aircraft.
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.

(See Continuation on Page 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: June 12, 2012 Date Reissued:
Date of Issuance: September 20, 2013 Date Amended: January 17, 2014; April 18, 2014, November 26, 2014
May 31, 2016

By Direction of the Administrator

Signature
Title 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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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number:

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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United States of America
 Department of Transportation
 Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number: ST00758DE

Date Amended: May 31, 2016

Limitations and Conditions:

3. The Aircraft Flight Manual Supplement identified in Table 1 below for the applicable installation configuration, or later FAA approved revision, is required and must be carried in the aircraft during all flights.
4. Instructions for Continued Airworthiness (ICA) identified in Table 1 below for the applicable installation configuration, or later FAA accepted revision, shall be made available to the operator at the time of installation
5. Installation of aft upper crown structural reinforcements as per Thales STC ST00284BO is required concurrently or prior to the installation of the Ka Band Connectivity System as identified in Table 1 below. The drawings for the aft internal upper crown structural reinforcements for the applicable installation configurations are identified in Table 1 below.

<i>IDL</i>	<i>AFMS</i>	<i>ICA</i>	<i>STC ST00284BO</i>	<i>AFT UPPER CROWN STRUCTURE DRAWINGS</i>
737K8002-IDL	73SK8002-AFM, Rev. B November 26, 2014	737K8002-NCA, Rev. IR June 30 2014	Required	737N2200
738K8002-IDL	73SK8002-AFM, Rev. B November 26, 2014	738K8002-NCA, Rev. B May 27, 2014	Required	738N2200
739K8002-IDL	73SK8002-AFM, Rev. B November 26, 2014	739K8002-NCA, Rev. D May 28, 2014	Required	739N2200
737K8004-IDL	73SK8003-AFM, Rev. IR May 31, 2016	73SK8003-NCA, Rev. IR January 6, 2016	Not Required	Not applicable
738K8004-IDL	73SK8003-AFM, Rev. IR May 31, 2016	73SK8003-NCA, Rev. IR January 6, 2016	Not Required	Not applicable
739K8004-IDL	73SK8003-AFM, Rev. IR May 31, 2016	73SK8003-NCA, Rev. IR January 6, 2016	Not Required	Not applicable

Table 1

Certification Basis (737-700 & 737-800):

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the Boeing Model **737-700 and 737-800** series aircraft with the Ka Band Connectivity System installed is as follows:

- a. The type certification basis for the Boeing Model 737-700 and 737-800 series airplanes is shown on TCDS A16WE for parts **not changed** or **not affected** by the change.
- b. The certification basis for parts changed or affected by the change since the reference date of application, June 12, 2012, is based upon part 25 as amended by amendment 25-77 (per TCDS A16WE). Based on 14 CFR §§ 21.115 and 21.101, and FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

14 CFR Part 25 Regulations

Regulations at the amendment level in TCDS A16WE:

14 CFR	25.23(a) ¹ (25-0)	25.177(d) (25-72)	25.251(a)(b)(c)(d) (25-77)	25.301 ¹ (25-23)
	25.303 ¹ (25-23)	25.307(a) ¹ (d) (25-72)	25.337 (25-23)	25.341 (25-86)
	25.349 (25-86)	25.427 (25-86)	25.471 (25-23)	25.489 (25-23)
	25.493 (25-23)	25.495 (25-0)	25.581 (25-23)	25.601 ¹ (25-0)
	25.603 ¹ (25-46)	25.605(a) ¹ (25-46)	25.609 ¹ (25-0)	25.611 (25-23)
	25.613 ¹ (25-72)	25.623(a) ¹ (b) (25-0)	25.625(a) ¹ (b)(c)(d) (25-72)	25.629 (25-77)
	25.777(a) ¹ (25-46)	25.789(a) ¹ (25-46)	25.901(c) (25-40)	25.903(c) (25-73)
	25.981(b) (25-11)	25.1301 ¹ (25-0)	25.1307(c) (25-72)	25.1316(a)(b) (25-80)
	25.1351(a)(1)(b)(5) ¹ (25-72)	25.1357(a)(c) ¹ (25-0)	25.1401(b) (25-41)	25.1419(a) (25-72)

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).



United States of America
 Department of Transportation
 Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number: ST00758DE

Date Amended: May 31, 2016

Regulations at the amendment level in TCDS A16WE (Continued):

25.1431(a)(c) ¹ (25-0)	25.1519 ¹ (25-0)	25.1529 ¹ (25-54)	25.1541(a)(b) ¹ (25-0)
25.1557(a) (25-72)	25.1581(a)(b) ¹ (25-72)	25.1585(a) ¹ (25-46)	

Regulations at a later amendment level (as noted):

14 CFR	25.121 (25-84)	25.305(a)-(c) ¹ (e)(f) (25-86)	25.321 (25-86)	25.331 (25-91)
	25.333 (25-86)	25.335 (25-91)	25.351 (25-91)	25.365 (25-87)
	25.473 (25-91)	25.479 (25-91)	25.481 (25-91)	25.483 (25-91)
	25.485 (25-91)	25.491 (25-91)	25.499 (25-91)	25.561 ¹ (25-91)
	25.571(a)(b) (25-54)	25.571(e) (25-96)	25.607 ¹ (25-23)	25.841(a) (25-87)
	25.853(a) ¹ (25-83)	25.869(a)(4) ¹ (25-113)	25.899(a)(3)(b) ¹ (25-123)	25.1309(b) ¹ (25-41)
	25.1353(a)(d) (25-113)			

Grants of Equivalent Level of Safety Finding for the following regulation:

14 CFR	25.251(b)	Documented in TAD ELOS memorandum SA05634DE-T-F-1.
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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 issuance date of this STC, compliance has been found for the following regulations:

14 CFR	26.11(a)(c) ¹ (26-0)	26.47 (26-1)	26.49 (26-1)
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14 CFR Part 36 Regulations

Based on 14 CFR §§21.93(b)(1), 21.115(a) and 25.101(a), applicable provisions of 14 CFR part 36 are included in the certification basis. As of the issuance date of this STC, compliance has been found for the following regulations:

14 CFR	36.7 (36-26)
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Note: The regulations listed above apply to the entire Ka Band Connectivity System (737K8002-IDL and 738K8002-IDL). The regulations identified by a superscript "1" apply to the Oasis Configurations (737K8004-IDL and 738K8004-IDL).

Certification Basis (737-900 & 737-900ER):

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the Boeing Model **737-900 and 737-900ER** series aircraft with the Ka Band Connectivity System installed is as follows:

- The type certification basis for the Boeing Model 737-900 and 737-900ER series airplanes is shown on TCDS A16WE 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, June 12, 2012, is based upon part 25 as amended by amendment 25-108 (per TCDS A16WE for the 737-900ER). Based on 14 CFR §§ 21.115 and 21.101, and FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

14 CFR Part 25 Regulations

Regulations at the amendment level in TCDS A16WE:

14 CFR	25.23(a) ² (b) (25-0)	25.121 (25-108)	25.177(d) (25-108)	25.251(a)(b)(c)(d) (25-77)
	25.301 ² (25-23)	25.303 ² (25-23)	25.305(a)-(c) ² (e)(f) (25-86)	25.307(a) ² (d) (25-72)
	25.321 (25-86)	25.331 (25-91)	25.333 (25-0)	25.335 (25-91)

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Supplemental Type Certificate

(Continuation Sheet)

Number: ST00758DE

Date Amended: May 31, 2016

Regulations at the amendment level in TCDS A16WE (Continued):

25.337 (25-23)	25.341 (25-91)	25.349 (25-94)	25.351 (25-91)
25.365 (25-0)	25.427 (25-86)	25.471 (25-23)	25.473 (25-103)
25.479 (25-91)	25.481 (25-94)	25.483 (25-91)	25.485 (25-91)
25.489 (25-23)	25.491 (25-91)	25.493 (25-97)	25.495 (25-0)
25.499 (25-46)	25.561 ² (25-91)	25.581 (25-23)	25.601 ² (25-0)
25.603 ² (25-46)	25.605(a) ² (25-46)	25.607 ² (25-0)	25.609 ² (25-0)
25.611 (25-23)	25.613 ² (25-72)	25.623(a) ² (25-0)	25.625(a) ² (b)(c)(d) (25-72)
25.629 (25-77)	25.777(a) ² (25-103)	25.789(a) ² (25-46)	25.853(a) ² (25-83)
25.869(a)(4) ² (25-113)	25.901(c) (25-46)	25.903(c) (25-94)	25.981(b) (25-11)
25.1301 ² (25-0)	25.1307(c) (25-72)	25.1316(a)(b) (25-80)	25.1351(a)(1)(b)(5) ² (25-72)
25.1357(a)(c) ² (25-0)	25.1401(b) (25-41)	25.1419(a) (25-72)	25.1431(a)(c) ² (25-0)
25.1519 ² (25-0)	25.1529 ² (25-54)	25.1541(a)(b) ² (25-0)	25.1557(a) (25-72)
25.1581(a)(b) ² (25-72)	25.1585(a) ² (25-46)		

Regulations at a later amendment level (as noted):

14 CFR	25.571 (25-96)	25.841(a) (25-87)	25.899(a)(3)(b) ² (a)(1)(2) (25-123)	25.1309(b) ² (a) (25-41)
	25.1353(a)(d) ² (25-113)			

Grants of Equivalent Level of Safety Finding for the following regulation:

14 CFR	25.251(b)	Documented in TAD ELOS memorandum SA05634DE-T-F-1.
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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 issuance date of this STC, compliance has been found for the following regulations:

14 CFR	26.11(a)(c) ² (26-0)	26.47 (26-1)	26.49 (26-1)
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14 CFR Part 36 Regulations

Based on 14 CFR §§21.93(b)(1), 21.115(a) and 25.101(a), applicable provisions of 14 CFR part 36 are included in the certification basis. As of the issuance date of this STC, compliance has been found for the following regulations:

14 CFR	36.7 (36-26)
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Note: The regulations listed above apply to the entire Ka Band Connectivity System (739K8002-IDL). The regulations identified by a superscript "2" apply to the Oasis Configuration (739K8004-IDL).

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