

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

*Number* **ST02461LA**

*This Certificate issued to* Thales Avionics Inc.  
58 Discovery  
Irvine, California 92618-3105

*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. (\*Certification basis is set forth in Type Certificate Data Sheet A28NM)*

*Original Product Type Certificate Number:* A28NM  
*Make:* Airbus  
*Model:* A320-200 Series

*Description of Type Design Change:* Installation of Provisions for Thales Avionics IFS Wireless Content Distribution (WCD) In-flight Entertainment (IFE) System in accordance with FAA Approved Thales Avionics Index List, Drawing No. 255422, Revision "A", dated May 17, 2013, or later FAA approved revision.

The Instructions for Continued Airworthiness is called out in its associated Master Drawing Lists (MDL) defined in the above referenced Index List.

*Limitations and Conditions:* This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.

Limitations and Conditions continued on Page 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*

*Date of application:* August 22, 2012

*Date reissued:*

*Date of issuance:* June 21, 2013

*Date amended:*



*By direction of the Administrator*

(Signature)

Manager, Systems & Equipment Branch, Los Angeles 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.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional 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.

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**TRANSFER ENDORSEMENT**

Transfer the ownership of the Supplemental Type Certificate Number \_\_\_\_\_

to *(Name of transferee)* \_\_\_\_\_

*(Address of transfer)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and Zip code)*

from *(Name of grantor)* *(Print or type)* \_\_\_\_\_

*(Address of grantor)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and Zip code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor *(In ink)*: \_\_\_\_\_

United States Of America  
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**Supplemental Type Certificate**

*Number* **ST02461LA**

*Limitations and Conditions (Continued)*

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.

*Certification Basis*

Based on 14 CFR §§ 21.115 and 21.101, and FAA order 8110.48, the type certification basis for the Airbus A320-200 Series modification of In-flight Entertainment System is in accordance with Type Certificate Data Sheet, A28NM, with the following exceptions:

**Regulations at the latest amendment 25-0 through 25-116**

25.29, 25.301(a), 25.303, 25.305(a),(b), 25.307(a), 25.561(b)(3),(c), 25.601, 25.603(a),(b),(c), 25.605(a), 25.607(b), 25.609(a), 25.611, 25.613(a),(b),(c), 25.619, 25.623, 25.625, 25.853(a), 25.869(a)(4), 25.1301(a),(b),(c), 25.1529, Appendix F, Appendix H

**Regulations at an intermediate amendment**

None

**Regulation at the amendment level in TCDS A28NM**

25.1353(b)

Based on 14 CFR § 21.101(g), applicable provision of 14 CFR part 26 is included in the certification basis. For any future 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, (Amdt. No. 26-0).

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

In reply refer to: 130L-13-128

Thales Avionics Inc  
Attn.: Jack Lindsey – Director, Certification  
58 Discovery  
Irvine, California 92618-3105

Dear Mr. Lindsey:

Supplemental Type Certificate (STC) No. ST02461LA  
Installation of Provisions for Thales Avionics TopSeries WCD IFE System on LAN  
Airbus A320-200 Series Aircraft, Project No. ST15406LA-T

We have completed our evaluation of the subject change in type design and are enclosing your Supplemental Type Certificate No. ST02461LA; a copy of FAA Approved Thales Avionics Index List, Drawing No. 255422, Revision "A", dated May 17, 2013, Master Drawing List, Drawing No. 190000-101MDL, Revision "D", dated May 1, 2013, and Reference Data List, Drawing No. 190000-101RDL, Revision "D", dated May 1, 2013.

The Los Angeles Aircraft Certification Office concurs with the statement contained in your Electrical Wiring Interconnecting System (EWIS) Instruction for Continued Airworthiness Evaluation, Drawing No. 500830-EWIS Revision "A", dated March 21, 2013, as called out in Reference Data List, Drawing No. 190000-101RDL, Revision "D", dated May 1, 2013, that the modification as defined in Thales Avionics, Inc. Master Drawing List, 190000-101MDL, Revision "D", dated May 1, 2013, does not necessitate a revision to EWIS ICA that were required to be developed by 14 CFR § 26.11(b). Therefore, enclosed STC ST02461LA has been issued with compliance to 14 CFR § 26.11.

Should STC ST02461LA be amended in the future to incorporate design changes or to add additional eligible airplane model number, per § 26.11(c), you are required to evaluate whether the design change (or existing approved modification on new airplane models) necessitates a revision to the ICA that were required to be developed by § 26.11(b). If so, you must develop and submit the necessary revisions for review and approval by the FAA Oversight Office. In addition, you must ensure that any revised EWIS ICA remain compatible with any fuel tank system ICA previously developed to comply with Special Federal Aviation Regulations 88 and any redundant requirements between them are minimized.

This certificate signifies approval of the type design change and authorizes modification of the aircraft model listed on the certificate. A copy must be included with each kit you issue or each time you make the data available to other persons who intend to make the subject alteration. The certificate may be transferred or made available to others by means such as a licensing agreement in accordance with Title 14 Code of Federal Regulations (CFR) part 21.47.

For your information, you are required to maintain an updated file related to this STC. If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the certificate, you are required to comply with the 14 CFR §§ 21.303 and 45.15. Application for Parts Manufacturer Approval (PMA) should be made in writing with reference to this STC and addressed to: Los Angeles Manufacturing Inspection District Office, 3960 Paramount Blvd, Suite 100, Lakewood, CA. 90712. Please note that § 21.309(a) specifies that the FAA does not issue a PMA if the manufacturing facility for the part is located outside of the United States, unless a determination is made that the location of the manufacturing facility places no undue burden on the FAA in administering the applicable airworthiness requirements.

In accordance with § 21.3, and as a recipient of this certificate, you are required to report any failure, malfunction, or defect, except as provided in § 21.3(d), in any product or part manufactured by you or your contracted suppliers, and which you have determined has resulted or could result in any occurrences listed in § 21.3(c). The report must be communicated initially by telephone to the Manager, ANM-130L Branch, Los Angeles Aircraft Certification Office, phone number (562) 627-5330 within 24 hours after it has been determined that the failure, malfunction, or defect required to be reported has occurred and followed up with a written notice to the address shown above. FAA Form 8010-4 (Malfunction or Defect Report) or other appropriate format is acceptable in transmitting the required details.

You, as the STC holder, are responsible for any design changes necessary to correct unsafe conditions as well as for submitting those design changes to this office for approval. This requirement is contained in § 21.99. In addition, you are required to advise this office of any change in address.

Also, CFR 21.50 requires that Instructions For Continued Airworthiness, called out in the associated Master Drawing Lists listed in the above referenced FAA-approved Thales Avionics Index List, be made available to the operator at the time the aircraft is returned to service.

By accepting this certificate, you acknowledge that you have read and understand your responsibilities as an STC holder.

Sincerely,

Alan T. Shinseki  
Manager, Systems and Equipment Branch  
Los Angeles Aircraft Certification Office

Enclosures (4)