

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

*Number* **ST02431LA**

*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:* A321-200 Series

*Description of Type Design Change:* Installation of Thales Avionics IFS TopSeries In-flight Entertainment (IFE) System in accordance with FAA Approved Thales Avionics Index List, Drawing No. 255508, Revision "B", dated August 08, 2012, 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:* April 15, 2011

*Date reissued:*

*Date of issuance:* August 09, 2012

*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)*: \_\_\_\_\_

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*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.

This STC must be installed in conjunction with Aerospace Engineering Solutions (AES) Introduction of Twin Class Cabin Interior Configuration, in accordance with Master Drawing List, No. AES-321-2059MDL. The referenced AES Master Drawing List was not evaluated under this STC and requires a separate approval.

*Certification Basis*

Based on 14 CFR §§ 21.115 and 21.101, and FAA order 8110.48, the type certification basis for the Airbus A321-200 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**

25.23, 25.301(a),(b), 25.303, 25.305(a),(b),(c), 25.307, 25.561, 25.562(a),(b),(c)(2)(4)(7)(8), 25.601, 25.603(a),(b),(c), 25.605(a), 25.607(b), 25.609(a), 25.613, 25.619, 25.623, 25.625, 25.789(a), 25.853(a), 25.869(a)(4), 25.1301, 25.1309(a),(g), 25.1357(a), 25.1529, 25.1541(a),(b) Appendix F, Appendix H

**Regulations at an intermediate amendment**

None

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

25.813(d), 25.1353(a),(b), 25.1431(c)

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).

-END-

