

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

Number **ST03821AT-D**

This certificate issued to TIMCO Aerosystems
815 Radar Road
Greensboro, NC 27410

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: A20WE
Make: BOEING
Model: 747-400 Series

Description of Type Design Change: Installation of a Panasonic eX2 In-Flight Entertainment System in a Boeing 747-400 aircraft in accordance with TIMCO Master Data List 09T063L001 revision A, dated March 24, 2010, or later FAA approved revision.

Limitations and Conditions:

1. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane.
2. 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.
3. **TIMCO's Instructions for Continued Airworthiness, Document 09T063R009, Rev A, dated January 27, 2010, or later FAA approved revision is a required part of this STC.**
4. **This approval is limited to the concurrent installation and approval of the aircraft interior in accordance with ComTech Master Document List CTDL01005, STC number ST10971SC.**

(Limitations and Conditions continued on page 3 of 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 of the Federal Aviation Administration.

Date of application : March 30, 2009

Date reissued :

Date of issuance : March 24, 2010

Date amended : September 8, 2010



By direction of the Administrator



(Signature)

Jose Pevida

ODA Administrator Lead ODA-100214-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.

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.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to *(Name of Transferee)* _____

(Address of Transferee) _____
(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
Department of Transportation – Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number **ST03821AT-D**

Issued: March 24, 2010

Amended: September 8, 2010

(Limitations and Conditions continued from page one.)

Certification Basis

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Boeing Model 747-400 series is as follows:

- a. The type certification basis for Boeing Model 747-400 series airplanes is shown on TCDS A20WE 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, March 30, 2009, is based upon part 25 as amended by Amendment 25-127. Based on 14CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-127

25.1, 25.27(b), 25.301, 25.303, 25.601, 25.603, 25.605, 25.609, 25.611, 25.853(a), 25.869(a)(4), 25.981(d), 25.1309(b)(1), 25.1461, 25.1529, 25.1541.

Regulations at an intermediate amendment

N/A.

Regulations at the amendment level in TCDS A20WE

25.305(a)(b), 25.307(a)(b), 25.321(a), 25.365(e)(2)(g), 25.561, 25.613(a)(b), 25.625(a)(1)(2)(3), 25.789, 25.1301, 25.1351(a)(1), 25.1353(a), 25.1357(a)(c), 25.1431(a)(c)

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 amendment, 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 regulations (Amdt 26-0 through 26-3):

26.11
26.47

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