United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA4322NM

This certificate, issued to: **Panasonic Avionics Corporation**
22333 29th Drive SE
Bothell, WA 98021

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: 747-100

Description of the Type Design Change: Installation of a Matsushita Avionics Systems (MAS) Passenger Entertainment and Service System in accordance with FAA approved MAS Service Bulletin 23-603-1, Revision A, and MAS Drawing List DM 23-603 dated March 26, 1988, or later FAA approved revision.

Limitations and Conditions: This change in type design applies to the Boeing 747-100 aircraft, serial numbers 19746, 20206, and 20207 only. A copy of this certificate and the FAA approved MAS Service Bulletin and MAS Drawing List, mentioned above, must be kept in the permanent records for the modified 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.

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: April 28, 1988

Date of issuance: May 6, 1988

Date reissued: March 3, 1993, June 5, 2006

Date amended: June 5, 2006

FEDERAL AVIATION ADMINISTRATION

By direction of the Administrator

(Signature)

Acting Manager, Seattle 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.

This certificate may be transferred in accordance with FAR 21.47.

FAA FORM 8110-2(10-68)