

# Panasonic

## Panasonic Avionics Corporation

26200 Enterprise Way, Lake Forest, CA 92630 USA

CAGE Code 1UL05

### USERS GUIDE AND REGULATORY STATEMENT

for the

### PREMIUM SEAT ELECTRONICS BOX

RS-FA3221-01

Revision NEW

7 pages

PANASONIC AVIONICS CORPORATION

LF DCS RELEASED

SEP 21 2007  
Date

Rev. NEW

Initials HT

Approved by

W Walker

Electrical Engineer

9-21-07

Date

Approved by

Kenny GBO

Manager, Hardware Engineering

9-21-07

Date

Approved by

Kenny GBO for Loi Ninh

Director, Hardware Engineering

9-21-07

Date

Approved by

Albelo

Quality Assurance

9/21/07

Date

**USERS GUIDE AND REGULATORY STATEMENT  
for the  
PREMIUM SEAT ELECTRONICS BOX  
Part Number: RD-FA3221-01**

September 21, 2007

Prepared by:

PANASONIC AVIONICS CORPORATION  
26200 Enterprise Way  
Lake Forest, CA 92630  
USA



**TABLE OF CONTENTS**

**1.0 INTRODUCTION ..... 5**

    1.1 Purpose ..... 5

    1.2 Reference Documents..... 5

    1.3 Acronyms and Abbreviations..... 5

**2.0 EQUIPMENT/SYSTEM DESCRIPTION ..... 6**

    2.1 IFE Environment..... 6

    2.2 PSEB..... 6

**3.0 REGULATORY INFORMATION ..... 7**

    3.1 FCC Statement..... 7

    3.2 SAR Compliance Statement..... 7

    3.3 Industry Canada ..... 7

    3.4 Europe – R&TTE Directive 99/5/EC, Wireless Notice..... 7

**LIST OF FIGURES**

Figure 1. PSEB Outline Drawing (P/N RD-FA3221-01) ..... 6

## **1.0 INTRODUCTION**

### **1.1 Purpose**

This User's Guide addresses the specific regulations regarding the use of the Premium Seat Electronic Box (PSEB).

### **1.2 Reference Documents**

44-26-72 Premium Seat Electronics Box Component Maintenance Manual

### **1.3 Acronyms and Abbreviations**

AOD	Audio On Demand
CAGE	Commercial and Government Entity
CD	Compact Disc
EIRP	Equivalent Isotropic Radiated Power
FCC	Federal Communications Commission
GHz	Gigahertz
IFES	In-Flight Entertainment System
MHz	Megahertz
MPEG	Moving Picture Experts Group
PED	Passenger Entertainment Device`
PSEB	Premium Seat Electronics Box
SAR	Specific Absorption Rate
SM	Smart Monitor
VOD	Video On Demand
WLAN	Wireless Local Area Network

## **2.0 EQUIPMENT/SYSTEM DESCRIPTION**

### **2.1 IFE Environment**

eX2 is an electronic control data and audio/video distribution system providing digital Video on Demand (VOD) and Audio on Demand (AOD) to the passenger seat. The system architecture is modular in design.

eX2 uses Moving Picture Experts Group (MPEG) encoding techniques for audio/video data compression providing high-resolution digital video and compact disc (CD) quality audio to the seats without using excessive system bandwidth. eX2 uses dual fibre-channel links to provide high speed 2.125 Gbps MPEG video/audio data transfer between head-end equipment.

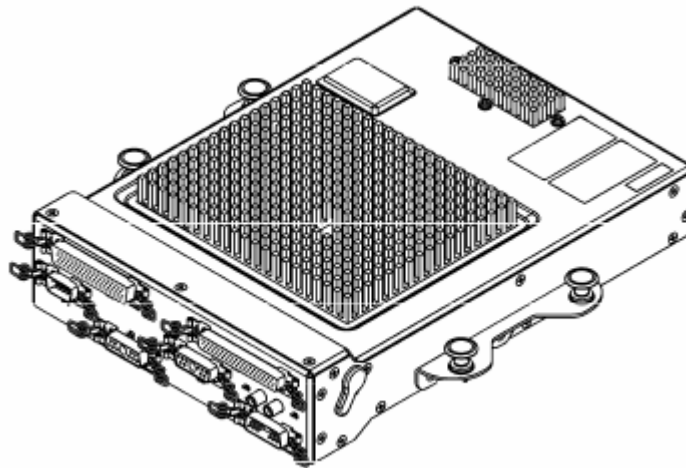
eX2 also provides broadband Ethernet network connectivity between the passenger-computing device at the seat and the head-end network equipment. The system is used for Internet data application and streaming digital video/audio content distribution.

eX2 provides a family of devices that allows the passenger to interact with the system. Alternatively, a passenger may have a compatible Passenger Electronic Device (PED), which can be used to display and interact with the eX2 network to offer web browsing, e-mail, e-commerce, or viewing of a short entertainment program.

### **2.2 PSEB**

The Premium Seat Electronic Box (PSEB) is a component of the eX2 In-flight Entertainment System (IFES) developed by Panasonic Avionics Corporation. The PSEB is mounted under the passenger seat in any orientation. The PSEB is designed to provide video entertainment and peripheral interfaces for one premium class seat.

The PSEB drawing is shown in Figure 1.



**Figure 1. PSEB (P/N RD-FA3221-01)**

### **3.0 REGULATORY INFORMATION**

This product has been tested and complies with the specifications for a digital device pursuant to Federal Communications Commission (FCC) specification IEEE 802.11.

#### **3.1 FCC Statement**

The Premium Seat Electronics Box (PSEB) contains a radio transmitter, intentional radiator, and complies with the specifications for a Class B digital device in accordance with FCC Part 15 Rules.

Modifications to the PSEB not authorized by Panasonic Avionics Corporation may void the certification of this equipment and void the user's authority to use this equipment.

#### **3.2 SAR Compliance Statement**

This equipment is compliant with Specific Absorption Rate (SAR) limits specified for General Population/Uncontrolled exposure.

#### **3.3 Industry Canada**

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit an RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from the Health Canada's website [www.hc-sc.gc.ca/rpb](http://www.hc-sc.gc.ca/rpb).

This Class B digital apparatus complies with Canadian ICES-003, RSS210. Cet appareil Numérique de la classe Best conforme à la norme NMB-003 du Canada.

#### **3.4 Europe – R&TTE Directive 99/5/EC, Wireless Notice**

This product is designed as a Class 2 type radio device that utilizes non-harmonized frequencies and power levels for Europe. It is marked with the following warning symbol to bring to your attention to the fact it might not be legal to use this product in every country.

In most cases this product has already been granted permission for use from the individual countries in Europe. If you are unsure, please contact the communications authority for the country to be operated in. In addition to this notice the following countries in Europe have certain restrictions on the operation of 2.4 GHz WLAN type devices:

- a. France – Outdoor use is limited 10mW Equivalent Isotropic Radiated Power (EIRP) within the frequency band 2454-2483.5 MHz.
- b. Italy – If used outside of own premises, general authorization is required.
- c. Luxembourg – General authorization is required for public service.
- d. Romania – Individual license is required.