

To our customers,

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April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

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PC Card Interface for E6000  
Emulator, E6000H Emulator, and  
E8000 Emulator

HS6000EIP02H User's Manual

Renesas Microcomputer  
Development Environment  
System

HS6000EIP02HE



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# IMPORTANT INFORMATION

## READ FIRST

- **READ this user's manual before using this emulator product.**
- **KEEP the user's manual handy for future reference.**

**Do not attempt to use the emulator product until you fully understand its mechanism.**

### **Emulator Product:**

Throughout this document, the term "emulator product" shall be defined as the following products produced only by Renesas Technology Corp. and Renesas Solutions Corp. excluding all subsidiary products.

- Emulator (including the EV-chip set)
- PC card interface
- User system interface cable
- Optional board (including the memory board)

The user system or a host computer is not included in this definition.

### **Purpose of the Emulator Product:**

This emulator product is a software and hardware development tool for systems employing the Renesas microcomputer. This emulator product must only be used for the above purpose.

### **Limited Applications:**

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### **Improvement Policy:**

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## **Target User of the Emulator Product:**

This emulator product should only be used by those who have carefully read and thoroughly understood the information and restrictions contained in the user's manual. Do not attempt to use the emulator product until you fully understand its mechanism.

It is highly recommended that first-time users be instructed by users that are well versed in the operation of the emulator product.

Users are required to be familiar with the basic knowledge for the electric circuits, logic circuits, and microcomputers.

## **Precautions to be Taken when Using This Product:**

1. This emulator is a development supporting unit for use in your program development and evaluation stages. In mass-producing your program you have finished developing, be sure to make a judgment on your own risk that it can be put to practical use by performing integration test, evaluation, or some experiment else.
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**Figures:**

Some figures in this user's manual may show items different from your actual system.

# SAFETY PAGE

## READ FIRST

- **READ** this user's manual before using this emulator product.
- **KEEP the user's manual handy for future reference.**

Do not attempt to use the emulator product until you fully understand its mechanism.

## DEFINITION OF SIGNAL WORDS

Either in the user's manual or on the product, several icons are used to insure proper handling of this product and also to prevent injuries to you or other persons, or damage to your properties. Their graphic images and meanings are given in this safety page. Be sure to read this chapter before using the product.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

**NOTE** emphasizes essential information.

# **WARNING**

**Observe the precautions listed below. Failure to do so will result in a FIRE HAZARD and will damage the PC card interface, the host computer, and the emulator product or will result in PERSONAL INJURY. The USER PROGRAM will be LOST.**

- 1. Do not repair or remodel the emulator product by yourself for electric shock prevention and quality assurance.**
- 2. Always switch OFF the emulator and host computer before connecting or disconnecting any CABLES, CARDS, or PARTS.**
- 3. Always before inserting the PC card interface into the host computer, make sure that the PC card interface is correctly oriented in the direction of ◀ Insert.**

# Preface

Thank you for purchasing the PC card interface (HS6000EIP02H) for the E6000 emulator, the E6000H emulator, and the E8000 emulator.

The PC card interface for the E6000 emulator, the E6000H emulator, and the E8000 emulator (hereafter called the PC card interface) connects the E6000 emulator, the E6000H emulator, or the E8000 emulator (hereafter called the emulator) to the host computer that has an interface conforming to the PC card specification TYPE II.



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# Section 1 Specifications

Table 1 lists the PC card interface specifications.

**Table 1 PC Card Interface Specifications**

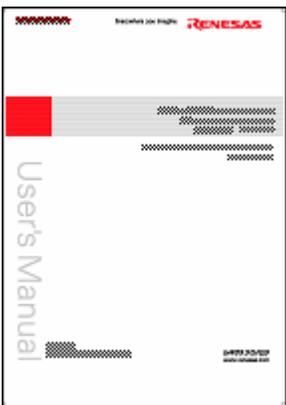
<b>Item</b>	<b>Specifications</b>
Host computer	Personal computer conforming to the PCMCIA card specification TYPE II
Operating system for host computer	Microsoft® Windows® 98SE, Windows® Me, Windows NT®, Windows® 2000, or Windows® XP operating system
Emulator	Renesas E6000 emulator, E6000H emulator, or E8000 emulator series
External dimensions	PC card: 54 mm x 85.5 mm x 4.6 mm
Mass	PC card: 29 g
Temperature	Operating: 10°C to 35°C Storage: -10°C to 50°C
Humidity	Operating: 35%RH to 80%RH (no condensation) Storage: 35%RH to 80%RH (no condensation)
Vibration	Operating: 2.45 m/s <sup>2</sup> max. Storage: 4.9 m/s <sup>2</sup> max. Transportation: 14.7 m/s <sup>2</sup> max.
Ambient gases	No corrosive gases
Power-supply voltage	5.0 V ± 0.25 V
Current consumption	100 mA (max.)



## Section 2 Components

Table 2 lists the PC card interface components.

**Table 2 Components**

Item	Product Name	Configuration	Quantity	Remarks
Hardware	PC card interface	<p style="text-align: center;">← Insertion direction</p>  <p>The image shows a PC card interface device. It is a rectangular card with a green and yellow label. The label text reads: "Insert", "PC Card Interface for E10 E6000 E8000 Emulator", "Renesas Microcomputer Development System", "PC DATA", and "RENESAS". An arrow points to the left side of the card, labeled "Insertion direction".</p>	1	—
	Interface cable	<p style="text-align: center;">← To PC card interface</p>  <p style="text-align: center;">To emulator →</p> <p>The image shows a beige interface cable. One end has a black connector, and the other end has a white connector. Arrows indicate the connection directions: "← To PC card interface" and "To emulator →".</p>	1	Cable length: 1.5 m
Manual	User's manual (this manual)	 <p>The image shows the cover of the user's manual. It is a white page with a red vertical bar on the left side. The text on the cover includes: "Renowned for quality RENESAS", "User's Manual", and "HS6000EIP02HE".</p>	1	HS6000EIP02HE



## Section 3 Preparation before Use

### 3.1 Connecting the PC Card Interface to the Host Computer

#### **WARNING**

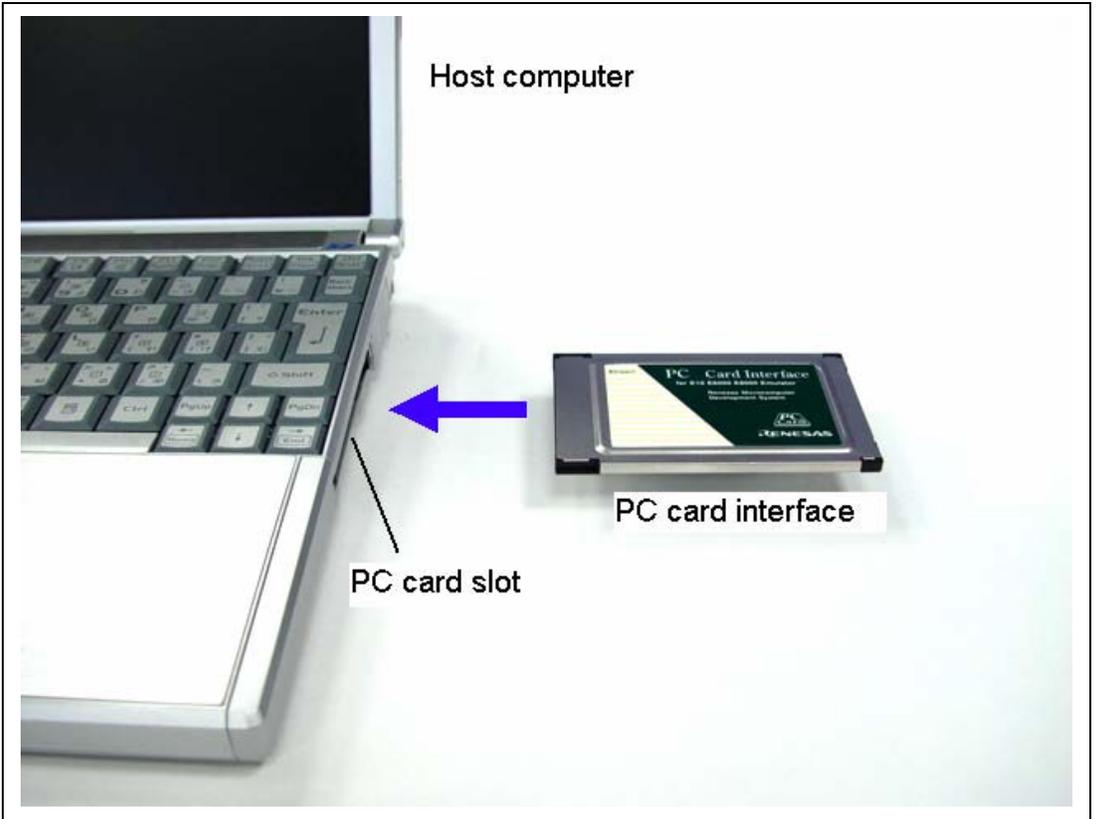
**Always switch OFF the emulator and host computer, and make sure that the PC card interface is correctly oriented in the direction of ◀ Insert before connecting or disconnecting the PC CARD INTERFACE. Failure to do so will result in a FIRE HAZARD and will damage the PC card interface and the host computer or will result in PERSONAL INJURY.**

1. Check that the emulator and the host computer are turned off.

#### **CAUTION**

**When connecting or removing the PC card interface, apply force only in the direction suitable for connection or removal, while making sure not to bend or twist the PC card interface; otherwise the PC card interface will be damaged.**

2. Align the PC card interface to the guide in the PC card slot of the host computer, and insert the PC card interface in the direction indicated as **◀ Insert** on the PC card interface until it locks.



**Figure 1 Connecting the PC Card Interface to the Host Computer**

## 3.2 Connecting the PC Card Interface to the Emulator

### **WARNING**

**Always switch OFF the emulator and host computer, and make sure that the connectors on both sides are correctly aligned before connecting or disconnecting the PC CARD INTERFACE. Failure to do so will result in a FIRE HAZARD and will damage the PC card interface, the host computer, and the emulator product or will result in PERSONAL INJURY.**

### 3.2.1 Connecting the PC Card Interface to the E6000 Emulator

When using the E6000 emulator, use the interface cable supplied together with the PC card interface, and connect the PC card interface to the E6000 emulator station through the interface cable as shown in figure 2.



**Figure 2 Connecting the PC Card Interface to the E6000 Emulator**

### 3.2.2 Connecting the PC Card Interface to the E6000H Emulator

When using the E6000H emulator, use the interface cable supplied together with the PC card interface, and connect the PC card interface to the E6000H emulator station through the interface cable as shown in figure 3.



**Figure 3 Connecting the PC Card Interface to the E6000H Emulator**

### 3.2.3 Connecting the PC Card Interface to the E8000 Emulator

When using the E8000 emulator, use the interface cable supplied together with the PC card interface, and connect the PC card interface to the E8000 emulator through the interface cable as shown in figure 4.

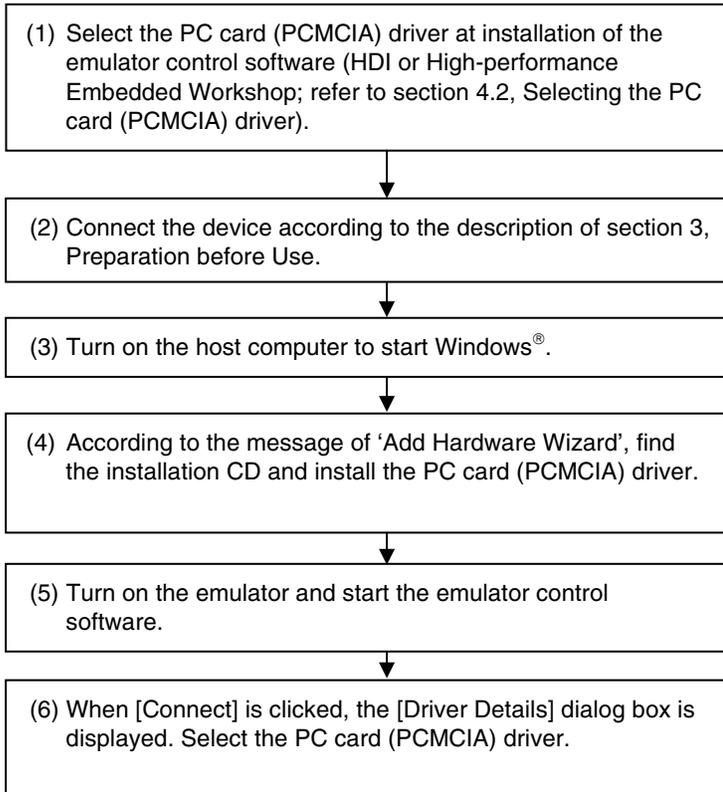


**Figure 4 Connecting the PC Card Interface to the E8000 Emulator**

# Section 4 Setting up PC Card Interface

## 4.1 Procedures

Figure 5 shows the setup procedures of the PC card interface.



**Figure 5 Setup Procedures**

## 4.2 Selecting the PC Card (PCMCIA) Driver

During installation of the emulator control software (HDI or High-performance Embedded Workshop), select the PC card (PCMCIA) driver in the [Select Components] dialog box.

Even if the [Select Components] dialog box is not displayed in some products, it is not a problem because the driver is automatically installed.

- Notes:
1. If the PC card (PCMCIA) driver is not selected in the [Select Components] dialog box, the PC card (PCMCIA) interface is not available.
  2. If the PC card (PCMCIA) driver is not displayed in the [Select Components] dialog box, operating environments in table 1 will not be satisfied. Check the operating system in use.

## Section 5 Notes on Use

1. This PC card interface is only for use with the E6000 emulator, the E6000H emulator, or the E8000 emulator. Do not use any other emulator together with the PC card interface.
2. Protect the PC card interface from excessive impacts and stresses. Keep out of direct sunlight, heat, and high humidity.
3. Do not disassemble the PC card interface or interface cable.
4. Be sure to turn off the host computer and the emulator before inserting or removing the PC card interface.



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**PC Card Interface for E6000 Emulator, E6000H Emulator, and  
E8000 Emulator  
HS6000EIP02H User's Manual**

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PC Card Interface for E6000 Emulator, E6000H  
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HS6000EIP02H User's Manual



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