RENESAS

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User's Manual

CE2000

H8S Series Compact Emulator Optional Memory

Microcomputer Development Environment System

2003.4

Microcomputer
Development Environment System

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**Compact Emulator Optional Memory for H8S Series Microcomputer
User's Manual**

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IMPORTANT INFORMATION

- **READ this user's manual before using this emulator product.**

- **<u>KEEP the user's manual handy for future reference.</u>**

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

Compact Emulator Optional Memory:

Throughout this document, the term "SODIMM" shall be defined as the optional SIMM memory module for compact emulator produced only by Renesas System Solutions Asia Pte. Ltd. excludes all subsidiary products.

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 H8S series microcomputer. This emulator product must only be used for the above purpose.

Improvement Policy:

Renesas System Solutions Asia Pte. Ltd. (hereafter collectively referred to as Renesas) pursues a policy of continuing improvement in design, performance, and safety of the emulator product. Renesas reserves the right to change, wholly or partially, the specifications, design, user's manual, and other documentation at any time without notice.

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 user be instructed by those who are well versed in the operation of emulator product.

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Restrictions:

1. Earthing (applies only to manual for Renesas hardware products)
   This hardware is designed for use with equipment that is fully earthed.
   Ensure that all equipments used are appropriately earthed.
   Failure to do so could lead to danger for the operator or damaged to equipments.

2. Electrostatic Discharge Precautions (applies only to manuals for Renesas hardware products)
   This hardware contains devices that are sensitive to electrostatic discharge.
   Ensure appropriate precautions are observed during handling and accessing connections.
   Failure to do so could result in damage to the equipment.

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Figures:

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

Limited Anticipation of Danger:

Renesas cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this user's manual and on the emulator product are therefore not all inclusive. Therefore, you must use the emulator product safely at your own risk.

PREFACE

About this manual

This manual explains how to integrate the SODIMM into the Compact Emulator.

Section 1   Introduces to the product (SODIMM)

Section 2   Details the parts of the package

Section 3   Explains how to install the SODIMM into the Compact Emulator.

Section 4   Performs a self-diagnostic test with the standalone emulator

Section 5   Highlights the basic step of using the SODIMM

Assumptions

This manual assumes that the user has a working knowledge of

- Renesas Compact Emulator

Related Manuals:

- Compact Emulator User's Manual

Table of Contents

Section 1.   Introduction

The optional memory, SODIMM is an optional item for the Compact Emulator. This is needed by user when the target system memory is not available. It provides 2Mbytes of memory for the user to map to any of the external area at zero wait state.

The SODIMM must only be used with the Renesas Compact Emulator.
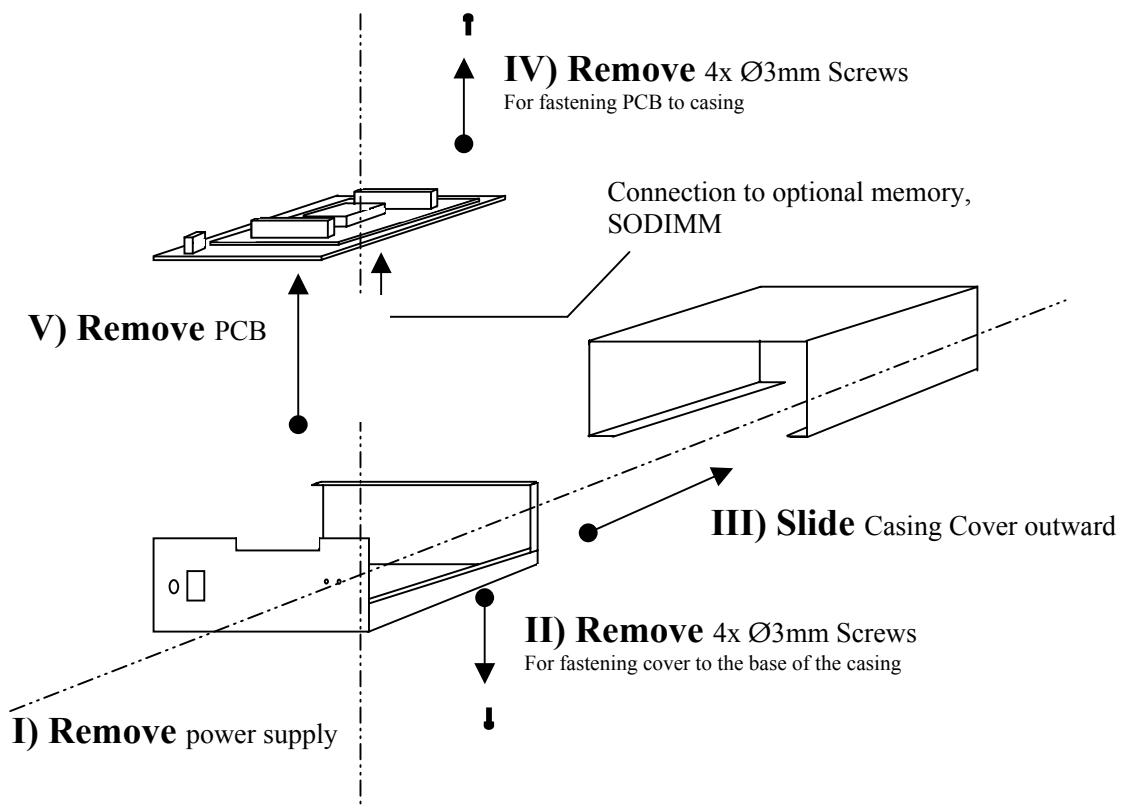
Section 2.   Package

The package consists of
- i)   2MBytes SODIMM
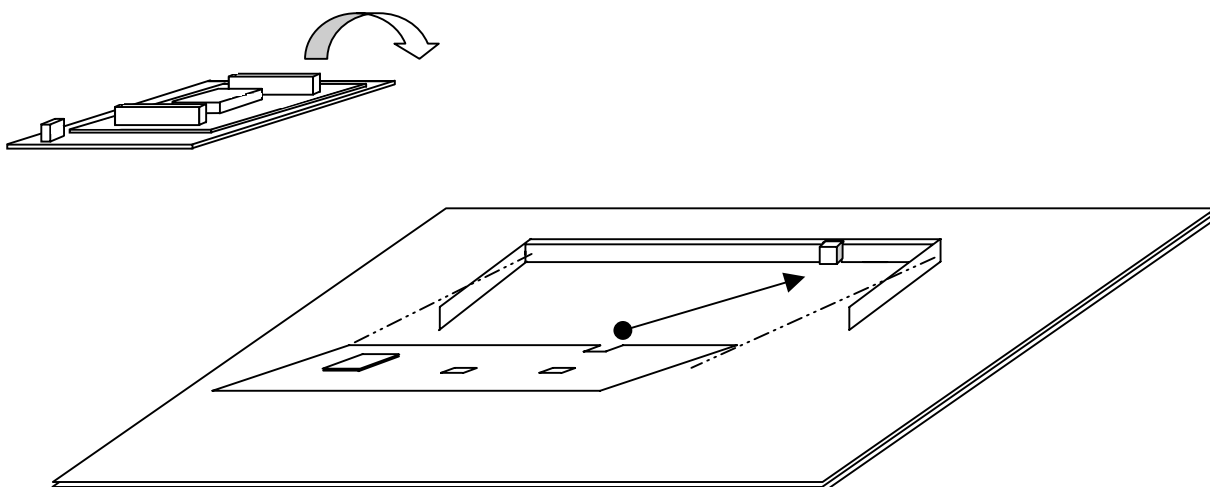- ii)   User's Manual

Section 3.   Installation

User is advised to follow the procedures to install the SODIMM in the Compact Emulator.
- i.   Switch off all power supply.
- ii.   Remove 4x screws under the Compact Emulator casing.
          (See that folowing diagram)
- iii.   Remove the Compact Emulator casing.
- iv.   Remove 4x screws that fasten the PCB onto the casing.
- v.   Remove the PCB.

IV) Remove 4x Ø3mm Screws
For fastening PCB to casing

Connection to optional memory, SODIMM

V) Remove PCB

III) Slide Casing Cover outward

II) Remove 4x Ø3mm Screws
For fastening cover to the base of the casing

I) Remove power supply

vi. Plug the SODIMM into the socket that is located at the bottom side of the PCB (See the following diagram).
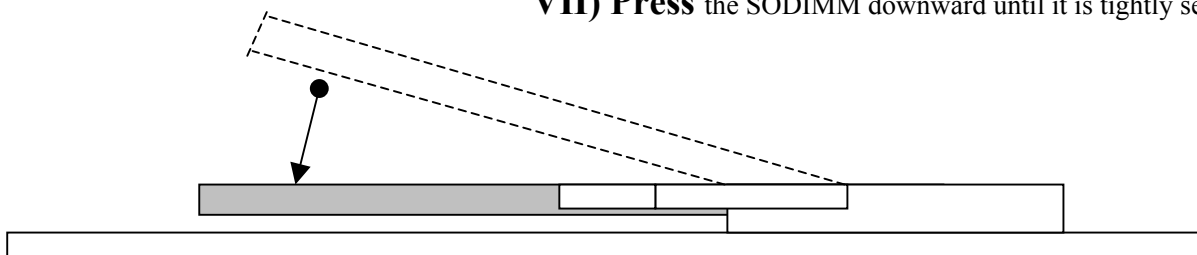

VI) Tilt and slide the SODIMM into the connector
Note: The SODIMM can be fitted at one side only (determined by the slot)

vii. Press the SODIMM board until it is parallel to the Main board. A click sound can be heard as both catches of the connector hold onto the SODIMM board.

VII) Press the SODIMM downward until it is tightly secured.

viii. Assemble the PCB back into the casing.

Section 4.   Checking the System

User is advised to perform a self-check before using the emulator with the SODIMM.

i. Power up the Compact Emulator without connecting the USB interface to the PC.

ii. After 10 seconds, the Compact Emulator will enter into Self Test Mode. The emulator has the intelligence to detect the SODIMM and perform a full self test with the SODIMM.

iii. Observe the LEDs. When the POWER LED blinks (signify the end of self test), the RUN LED is expected to be off (signify self test passes). Otherwise a RUN LED displayed in RED signifies a failure.

iv. If the test fails, user is advised to re-connect the SODIMM and perform the test again.

Section 5.   Using the Optional Memory

When the SODIMM is connected, user will notice the message "SODIMM connected" in the HDI's System Status/Plaform window. In order to use the SODIMM, user has to enable the memory at the desired address. Please refer to the Compact Emulator User's Manual for the details.

Renesas Technology (Asia Sales Offices)

URL: http://www.renesas.com

Compact Emulator Optional Memory

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