

R0E330850MSRC0

Emulation Memory Board for M32C/80 Series Compact Emulator

User's Manual

Keep safety first in your circuit designs!

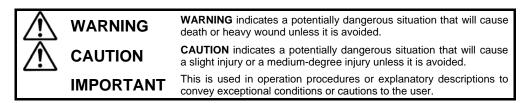
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1. Outline

The R0E330850MSRC0 is an emulation memory board for the M32C/80 Series compact emulator. The memory space can be allocated to the emulation memory by using with the M32C/80 Series compact emulator M30850T3-CPE.

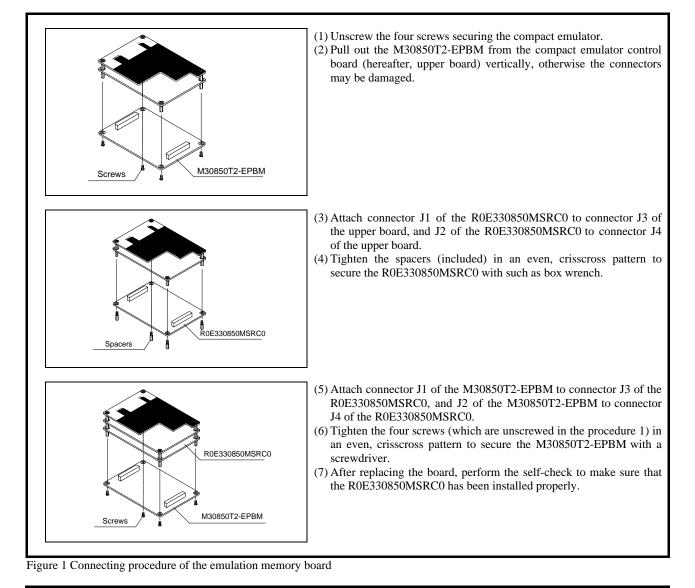
2. Package Components

Table 1 Package Components

Item	Quantity
R0E330850MSRC0 emulation memory board	1
Spacers for fixing the emulation memory board	4
R0E330850MSRC0 User's Manual (this document)	1
R0E330850MSRC0 User's Manual (Japanese)	1

3. Connection Procedure

The procedure for connecting the R0E330850MSRC0 is shown in Figure 1.



Cautions to Be Taken for This Product:



Before you replace the emulation memory board, shut off the power, otherwise internal circuits may be damaged.
Insert or pull out the connectors vertically, otherwise the connectors may be damaged.

4. Usage (Emulator Debugger)

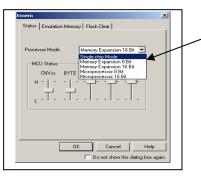
The required operating environment is described below.

- Integrated development environment:
 - Emulator debugger:

High-performance Embedded Workshop M32C Compact emulator debugger Ver.1.00 Release 00 or later (The emulator debugger "M3T-PD308MF" can not be used.)

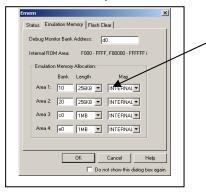
Set the emulation memory in the Emem dialog box of the emulator debugger start-up.

1. Specifying the processor mode



Specifying the processor mode Select the appropriate processor mode that suits your system.

2. Emulation memory allocation for an extended area



Emulation memory allocation for an extended area

When memory expansion or microprocessor mode is selected, emulation memory can be allocated to the extended area to be debugged (in up to four areas).

* Bank (Set bank address)

Specify the bank address of the debug target area to be allocated in hexadecimal. If specified as d0, D00000h is the start address of the debug target area.

* Length (Specify size of area)

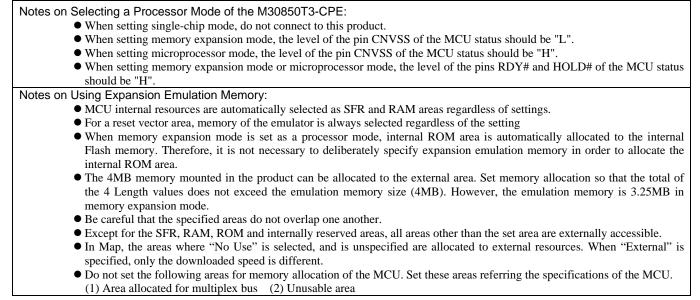
Specify the size of the debug target area (256Kbytes or 1Mbytes). If Length is specified to be "256Kbytes", banks 00, 04, 08, and up to FC (every four banks) are specified for Bank; if Length is specified to be "1 Mbytes", banks 00, 10, 20 and up to F0 (every 16 banks) are specified for Bank.

* Map (Specify area map)

Specify the mapping information ("Internal" or "External") in the specified area. If no area is specified, select "No Use"

- Internal : The area specified to be "Internal" is mapped into the internal area (emulation memory).
- External : The area specified to be "External" is mapped into the external area (external resource in the user system)

IMPORTANT



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5. Specifications

Applicable compact emulator	M30850T3-CPE
Size of emulation memory installed	4Mbytes
Applicable MCU mode	Memory expansion mode, Microprocessor mode
Applicable power supply	3.0 to 5.5 V
Maximum operating frequency	1Ø+1Ø : 32MHz*
Emulation memory allocation	Memory expansion mode: Maximum 3.25Mbytes
	Microprocessor mode: Maximum 4.00Mbytes

*The restrictions in this product operating frequency depend on VCC2 power voltage. (These restrictions only need to be observed when using an emulator.) (See Figure 2)

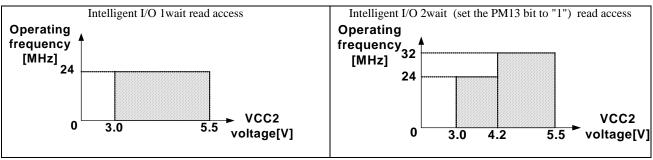
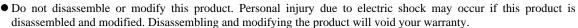


Figure 2 Restrictions in operating frequency when using this product

(When using in single-power supply: VCC1 = VCC2, When using in dual-power supply: VCC1 = 5.0 ± 0.2 [V] fixed)

6. Precautions

Warnings to Be Taken for This Product:



Warning for Installation:

• Do not set this product in water or areas of high humidity. Make sure that the product does not get wet. Spilling water or some other liquid into the product may cause unrepairable damage.

Warning for Use Environment:

• This equipment is to be used in an environment with a maximum ambient temperature of 35°C. Care should be taken that this temperature is not exceeded.

Cautions to Be Taken for This Product:



• Use caution when handling this product. Be careful not to apply a mechanical shock.

• Do not touch the connector pins of this product directly. Static electricity may damage the internal circuits.

Caution to Be Taken for System Malfunctions:

• If the emulator malfunctions because of interference like external noise, do the following to remedy the trouble. (1) Press the RESET button on the emulator upper panel.

(2) If normal operation is not restored after step (1), shut OFF the emulator once and then reactivate it.

Caution to Be Taken for Using with M30850T2-CPE and M30870T2-CPE: • Do not use this product with M30850T2-CPE and M30870T2-CPE.

7. Inquiries

For inquiries about this product or the contents of this manual, contact your local distributor. Renesas Tools Homepage http://www.renesas.com/tools Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

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