

RENESAS TOOL NEWS on December 16, 2005: RSO-M30870T-EPB-051216D

## A Note on Using the Compact Emulator --M30870T2-CPE-- and the Emulation Probe for the PC7501 Emulator --M30870T-EPB--

Please take note of the following problem in using the Compact Emulator and the Emulation Probe M30870T-EPB (used together with the PC7501 Emulator) for the M32C/87 MCU group:

- On All the peripheral functions of the emulator MCU being halted

### 1. Products Concerned

Product Type	Serial Number
M30870T2-CPE	Ending in character "A", "B", "C", or "D"
M30870T-EPB	Ending in character "A", "B", "C", or "D"

The serial number, an 8-digit alphanumerical character, is inscribed on the label affixed to the bottom side of each product; for example, 4CM0017B.

### 2. Description

While the M30870T2-CPE or the M30870T-EPB is operating, all the peripheral functions of the emulator MCU will be halted if the following conditions are all satisfied:

- CPU clock frequency is 24 MHz or more.
- Eight-bit data is written into the SFR area (000000h--0003FFh) or the external area using DMAC.

This problem arises from the malfunction of the MCU board M30870T-EPBM mounted in both of the products concerned:

Note that the problem does not arise in actual MCUs.

### 3. Solution

We supply you with the problem-fixed M30870T-EPBM MCU board if you are encountering this problem. So substitute it for yours by going through the following steps:

- (1) Fill in the appended free-of-charge problem-fixed MCU board application form and send it to us by E-mail or FAX. (Send one form per product concerned.)
- (2) We will send you a problem-fixed M30870T-EPBM board. After receiving the board, substitute it for yours by following the instructions of the M30870T-EPBM User's Manual (for MCU board replacement of the M30870T2-CPE and M30870T-EPB), which is enclosed with the board; then validate the system.
- (3) After validating the system, send back us your previous board.
- (4) Be sure to read the M30870T-EPBM Supplementary Document, which is also enclosed with the board, before running the problem-fixed board.

SEND TO:

Your local Renesas Technology sales office or distributor

#### **4. Notes on Applying for the Board**

- (1) Application will be accepted on and after January 16, 2006.
- (2) We will send you the problem-fixed board from February 2006 on.
- (3) It will take 10 working days or more to ship the board after receiving your E-mail or FAX (except for the transportation period).

#### **5. Notes on Using the Problem-Fixed Products**

To every product concerned where the problem-fixed MCU board is mounted and the products concerned that will be shipped after this December 16 are made the following changes:

- (1) The maximum operating clock frequency at which the SFR area of the intelligent I/O function is read out in 1 or 2 wait state is lowered from 30 to 24 MHz.
- (2) The limitations\* imposed on the compact emulator and the emulation probe concerned are modified as follows:
  - These products cannot operate at the CPU clock frequencies exceeding 24 MHz under the condition that  $VCC1 > VCC2$ .
  - If you want to operate them at the CPU clock frequencies exceeding 24 MHz, you must set bit PM13 to 1 (2 wait states) when reading the SFR area of the intelligent I/O function.

\* These limitations are read on the following:

- Section 4.5, Notes on Using This Product, in the M30870T-EPB User's Manual
- Section 4.2, Differences between the Actual MCU and Emulator, in the M30870T2-CPE User's Manual

Because the above changes are those made to the specifications of the products, the following descriptions related to the products concerned are also subject to changes:

- Notes on Using This Product in the user's manuals and release notes
- Footnote \*2 in the lists of the specifications on the Web pages

For details, see those documents and Web pages.

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