RENESAS Tool News

A Note on Using the Compact Emulator --M34509T2-CPE-- for the 4508 and 4509 MCU Groups

Please take note of the problem described below in using the M34509T2-CPE compact emulator, which is used for the 4508 and 4509 groups, 720 family.

1. **Problem**

   When a program that uses the PWM output function is debugged using the M34509T2-CPE, the output from the P11/CNTR1 pin (the PWM output pin) of the emulator changes at the T2 state the same way as the outputs of the other port pins because the P11/CNTR1 pin is connected to the emulation circuit. So, the PWM output wave forms from the compact emulator are different from those outputted from the actual MCU.

   Examples:

   (1) When the count source of PWM outputs is the system clock, and the values of the reload registers R2L and R2H are both "00h", the frequency of the wave forms outputted from the timer may be reduced to one third of that outputted from the actual MCU.

   (2) Because the count of the timer itself in the evaluation MCU is made in the same timing as the actual MCU, the timing at which the timer interrupt request flag is set and the one at which the output from the timer output pin (CNTR1) changes may be different.

2. **Workaround**

   Please evaluate the PWM output function in your actual MCU.

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