

Notes on Using Simulator for 78K0R/Lx3 MCUs V3.00.00 together with CubeSuite+

When using the simulator for the 78K0R/Lx3 MCUs V3.00.00 together with CubeSuite+, take note of the following restrictions:

- Restriction about the clock selection of timer array unit 1
- Restriction about channel 5, 6 of timer array unit 0
- Restriction about external interrupt request input pin 0 (INTP0)

1. Product Concerned

Simulator for 78K0R/Lx3 MCUs V3.00.00 (used together with CubeSuite+)

To check to see the version number of your product, follow these steps:

- (1) Start CubeSuite+; then in the Debugging Tool list, select Simulator as a debugging tool.
- (2) Press the Download button to link CubeSuite+ with the simulator.
- (3) On the Help menu, select "About" to open the Version Information dialog box.
- (4) In the Explanation column of "RL78,78K0R Simulator Plug-in", the version number is displayed after 78K0R_Lx3 Simulator.

2. Descriptions

2.1 Restriction about the clock selection of timer array unit 1

When timer array unit 1 is used, timer clock select register 1 (TPS1) cannot select the clock for the unit. Timer clock select register 0 (TPS0) selects the clock for timer array unit 1 in error as well as selecting the one for timer array unit 0. Timer clock select register 1 should select the clock for timer array unit 1.

2.2 Restriction about channel 5, 6 of timer array unit 0

In this problem, the 78K0R/LF3 MCUs are involved.

When channels 5 and 6 of timer array unit 0 are used, values can be loaded on either of the following SFRs, but the values are not reflected in the actual operations of the timers. So they cannot operate properly.

SFRs concerned:

- Timer data registers 05 and 06 (TDR05 and TDR06)
- Timer mode registers 05 and 06 (TMR05 and TMR06)

2.3 Restriction about external interrupt request input pin 0 (INTP0)

In this problem, only the uPD78F1510A MCU is involved.

Even if a triggering edge is inputted to external interrupt request input pin 0 (INTP0), no interrupt is generated.

3. Workarounds

We have no plans to circumvent these problems.

4. Schedule of Fixing the Problems

We are going to fix these problems in the product's next version, V3.00.01, It will be released, included in CubeSuite+ V1.01.00, at the end of November 2011.

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