# RENESAS TECHNICAL UPDATE

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| Product Category | MPU/MCU | | Document No. | TN-R8C-A061A/E | Rev. | 1.00 |
|---|---|---|---|---|---|---|
| Title | Caution on using wait mode | | Information Category | Technical Notification | | |
| Applicable Product | R8C/36T-A, R8C/38T-A | Lot No. | Reference Document | Latest user's Manual: Hardware of applicable products | | |
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This document described caution on using wait mode for above mentioned applicable products.


1. Description

   The Compare match timer mode of Timer RE2 interrupt is not used to exit wait mode.

"Table. Interrupts Used to Exit Wait Mode and Usage Conditions" in User's Manual: Hardware is shown below.

● Interrupts Used to Exit Wait Mode and Usage Conditions

Correct:

Table. Interrupts Used to Exit Wait Mode and Usage Conditions

| Interrupt | When CM02 = 0 | When CM02 = 1 |
|---|---|---|
| Serial interface interrupt | Usable with an internal clock or external clock supplied. | Usable with an external clock supplied. |
| Synchronous serial communication unit/I$^2$C bus interface | Usable in all modes. | - (Do not use.) |
| Key input interrupt | Usable | Usable |
| A/D interrupt | - (Do not use.) | - (Do not use.) |
| Timer RJ interrupt | Usable in all modes. | Usable without a filter in event counter mode. Usable when fOCO, fC1, or fC32 is selected as the count source. |
| Timer RB2 interrupt | Usable in all modes. | - (Do not use.) |
| Timer RC interrupt | Usable in all modes. | Usable when fHOCO or fHOCO-F is selected as the count source. |
| **Timer RE2 interrupt** | **Usable when fC1 is selected as the count source.** | Usable when fC1 is selected as the count source. |
| $\overline{\text{INT}}$ interrupt | Usable | Usable (usable when $\overline{\text{INT0}}$ to $\overline{\text{INT4}}$ are used without a filter.) |
| Voltage monitor 1 interrupt | Usable | Usable |
| Voltage monitor 2 interrupt | Usable | Usable |
| Oscillation stop detection interrupt | Usable | - (Do not use.) |

Incorrect:

Table. Interrupts Used to Exit Wait Mode and Usage Conditions

| Interrupt | When CM02 = 0 | When CM02 = 1 |
|---|---|---|
| Serial interface interrupt | Usable with an internal clock or external clock supplied. | Usable with an external clock supplied. |
| Synchronous serial communication unit/I$^2$C bus interface | Usable in all modes. | - (Do not use.) |
| Key input interrupt | Usable | Usable |
| A/D interrupt | - (Do not use.) | - (Do not use.) |
| Timer RJ interrupt | Usable in all modes. | Usable without a filter in event counter mode. Usable when fOCO, fC1, or fC32 is selected as the count source. |
| Timer RB2 interrupt | Usable in all modes. | - (Do not use.) |
| Timer RC interrupt | Usable in all modes. | Usable when fHOCO or fHOCO-F is selected as the count source. |
| **Timer RE2 interrupt** | **Usable in all modes.** | Usable when fC1 is selected as the count source. |
| $\overline{\text{INT}}$ interrupt | Usable | Usable (usable when $\overline{\text{INT0}}$ to $\overline{\text{INT4}}$ are used without a filter.) |
| Voltage monitor 1 interrupt | Usable | Usable |
| Voltage monitor 2 interrupt | Usable | Usable |
| Oscillation stop detection interrupt | Usable | - (Do not use.) |

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