To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

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Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)
Send any inquiries to http://www.renesas.com/inquiry.

1. Condition

(1) Timing of initializing R64CNT
The maximum time from 1) to 2) is 107us (3.5 times of clock period on EXTAL2 pin).
1) Write 1 to RCR2.RESET.
2) The 64Hz counter register (R64CNT) read value has initialized.
The RTC divider circuit itself has done initialization at the same time when RCR2.RESET bit is set to 1.

(2) Increasing RSECCNT by initializing R64CNT
If START bit is wrote to 1 within 107us from RESET bit of RCR2 register is wrote to 1, the value of RSECCNT register will be increased by 1.

2. Note on usage

(1) Timing of initializing R64CNT
When it is needed to read initialized value of R64CNT after initializing R64CNT by writting 1 to RESET bit, please read R64CNT after 107us from setting 1 to RESET bit.

(2) Increasing RSECCNT by initializing R64CNT
Please use one of following method which is shown in figure1 and figure2.

![Figure 1 Setting the Time (a)](image-url)
Write 1 to RESET and 0 to START in the RCR2 register
Order is irrelevant
Set seconds, minutes, hour, day, day of the week, month and year
Write 1 to RESET and 1 to START in the RCR2 register
Confirm R64CNT is 0
Yes
No
Start clock
Reset divider circuit
Stop clock
Reset divider circuit
Write to RCR2
Note: Steps which is marked "*" in the left side of flow can be skipped if RCR2 is not written within 107us after writing START to 1.

Figure 2 Setting the Time (b)