

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>.

RENESAS TECHNICAL UPDATE

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Product Category	MPU&MCU	Document No.	TN-16C-A153A/E	Rev.	1.00
Title	R8C/18 Group, R8C/19 Group, R8C/1A Group, R8C/1B Group, R8C/24 Group, R8C/25 Group Precautions on Flash Memory Erase Function		Information Category	Technical Notification	
Applicable Product	R8C/18 Group, R8C/19 Group R8C/1A Group, R8C/1B Group R8C/24 Group, R8C/25 Group	Lot No.	Reference Document		

1. Precaution

When the program command with the writing data D0h is executed in EW1 mode (FMR11 = 1) and the first bus cycle 20h of the block erase command is written to a given address of the block, a CPU recognizes that the data written at the end (D0h) is the second bus cycle of the block erase command, the MCU is in hold state, and the instruction cannot be executed (refer to Program example 1).
If the writing data is a value other than D0h, this precaution is not applied.

2. Countermeasures

Execute either of the following countermeasures:

- (1) Execute the read array command (FFh) before the block erase command is executed (refer to Program example 2).
- (2) Use EW0 mode (FMR11 = 0).

3. Schedule

Improved products will be shipped at the 4th Quarter 2006.

Contact a sales department for details. There will be no problem if the above countermeasures are executed for improved products.

[Program Example 1]

```

; When data is D0h
; Program Command
  mov.b    data, R0L
  mov.b    #040h,2400h
  mov.b    R0L,2400h
LABEL_001:
  btst    FMR00
  jnc     LABEL_001
; Block Erase Command
  mov.b    #020h,2800h
  mov.b    #0D0h,2800h
LABEL_002:
  btst    FMR00
  jnc     LABEL_002

```

[Program Example 2]

```

; When data is D0h
; Program Command
  mov.b    data, R0L
  mov.b    #040h,2400h
  mov.b    R0L,2400h
LABEL_001:
  btst    FMR00
  jnc     LABEL_001
; Read Array Command
  mov.b    #0FFh,2800h
; Block Erase Command
  mov.b    #020h,2800h
  mov.b    #0D0h,2800h
LABEL_002:
  btst    FMR00
  jnc     LABEL_002

```