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.

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Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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HITACHI SEMICONDUCTOR TECHNICAL UPDATE

DATE	18 February 2000	No.	TN -SH7-212A /E
THEME	SH3 / SH3DSP have additional information on RTC		
CLASSIFICATION	☐ Spec. change ☐ Limitation on Use ■ Supplement of Documents		
PRODUCT NAME	HD6417708,HD6417708S,HD6417708R,HD6417718R,HD6417707,HD6417709,HD6417709A,HD6417729		
REFERENCE DOCUMENTS	SH7708 Series Hardware manual SH7709 Hardware manual Sh7729 Hardware manual SH7707 Hardware manual SH7709A Hardware manual	Effective Date	Eternity
		From	

HD6417708,HD6417708S,HD6417708R,HD6417718R,HD6417707,HD6417709,HD6417709A,
HD6417729 have followed additional information.

1. Additional information about Periodic interrupt on Real Time Clock (RTC)

Fig. 1 shows how to use the periodic interrupt function.
The periodic interrupt function can occur the interrupt periodically which designated by RCR2.PES bits. RCR2.PEF bit is set to 1 after the period designated by the RCR2.PES bits or written 1. When the PEF bit become 1, the periodic interrupt occurs. PEF bit should be set to 0 when setting PES bits or when the interrupt occurs.

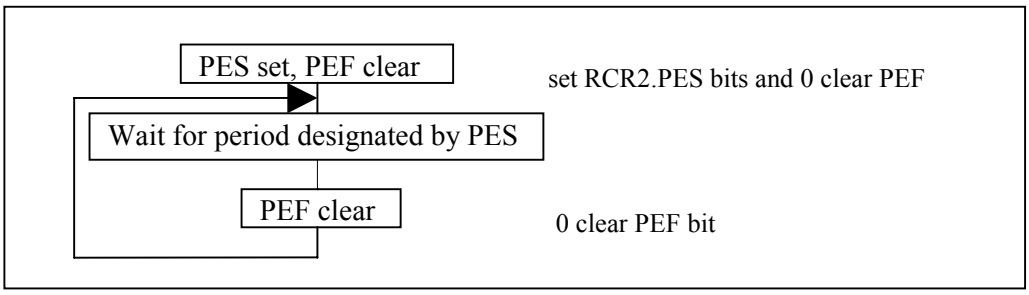

Fig.1 Using the Periodic Interrupt Function

HITACHI SEMICONDUCTOR TECHNICAL UPDATE

DATE	15 November 2000	No.	TN-SH7-278A/E
THEME	SH3, SH3-DSP An error in writing of "Mask All Interrupts (MAI) bit"		
CLASSIFICATION	☐ Spec. change ☐ Limitation on Use ■ Supplement of Documents		
PRODUCT NAME	SH7707, SH7709, SH7709A, SH7729		
REFERENCE DOCUMENTS	Hardware Manual s SH7707: ADE-602-137 Rev.1.0, SH7709: ADE-602-123B Rev.2.0 , SH7709A: ADE-602-187B Rev.3.0, SH7729: ADE-602-157A Rev.2.0	Effective Date From	Eternity Now

Hardware Manuals for SH7707,SH7709,SH7709A and SH7729 have following error of description.

SH7707 Manual(Rev1.0 or older): 6.3.3 Interrupt Control Register1 (ICR1)
SH7709 Manual(Rev2.0 or older): 6.3.3 Interrupt Control Register1 (ICR1)
SH7709A Manual(Rev3.0 or older): 6.3.3 Interrupt Control Register1 (ICR1)
SH7729 Manual(Rev2.0 or older): 6.3.3 Interrupt Control Register1 (ICR1)

Error:

Bit 15-Mask All Interrupts (MAI): Mask NMI interrupts when set to 1. Also selects whether or not all interrupt requests are masked when a low level is being input to the NMI pin.

Bit 15: MAI	Description	
0	All interrupt requests are not masked	(Initial value)
1	All interrupt requests are masked	

Correction:

Bit 15-Mask All Interrupts (MAI): When it is set to 1, all interrupt requests are masked when a low level is being input to the NMI pin. And it also mask NMI interrupt in standby mode.

Bit 15: MAI	Description	
0	When NMI pin is low level, all interrupt requests are not masked	(Initial value)
1	When NMI pin is low level, all interrupt requests are masked	