

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>

April 1st, 2010
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-SH7-A640A/E	Rev.	1.00
Title	Usage notice of the Compare Match Timer (CMT)		Information Category	Technical Notification		
Applicable Product	SH7705 Group	Lot No.	Reference Document	SH7705 Group hardware manual Rev.2.00 (REJ09B0082-0200)		
		All				

There are the following notes about a DMA transfer request by a CMT of the SH7705.

When compare match occurs, a DMA transfer request of CMT is generated. And when the specified number of transfer have been completed (when the DMATCR register of DMAC reaches 0), the DMA transfer request of CMT ends automatically.

Please note that even when the CMF bit or the CMR bit in the CMCSR register are cleared to 0, the DMA transfer request of CMT does not end on the way, and continues until the amount of data transferred has reached the value set in the DMATCR register.

If you wish to generate one DMA transfer once every time compare match occurs, the DMATCR register should be set to 1.

And after DMA transfer ends, each register value of the DMATCR, the CHCR, and the DMAOR register also should be set again.