

To our customers,

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## Old Company Name in Catalogs and Other Documents

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On April 1<sup>st</sup>, 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

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# HITACHI SEMICONDUCTOR TECHNICAL UPDATE

Classification of Production	Microprocessor		No	TN-SH7-453A/E	Rev	1
THEME	Usage notices of the DMAC of SH7705	Classification of Information	1. Spec change 2. Supplement of Documents ③ Limitation of Use 4. Change of Mask 5. Change of Production Line			
PRODUCT NAME	HD6417705	Lot No.	Reference Documents	SH7705 Series Hardware Manual Rev.1.0 ADE-602-276	Effective Date	
		ALL			Eternity	

Direct Memory Access Controller (DMAC) of SH7705 has following usage notes.

**[Phenomenon]**

If the following two conditions are satisfied simultaneously, DACK signal may be asserted illegally.

**[Condition]**

- (1) When the multiple DMA channels with the following setting operate simultaneously.
  - One DMA channel is set as burst mode and dual address mode with DACK output in write cycle.
  - Another DMA channel is set as cycle steal mode.
- (2) When DMAC can not acquire the bus mastership after burst transfer has completely finished (even if the next transfer request for cycle steal mode is accepted).

**[Work around]**

Don't set DMA transfer mode as (1).