## Old Company Name in Catalogs and Other Documents

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.

Renesas Electronics website: <a href="http://www.renesas.com">http://www.renesas.com</a>

April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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## **RENESAS TECHNICAL UPDATE**

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Renesas Technology Corp.

Product Category	MPU&MCU		Document No.	TN-SH7-A691A/E	Rev.	1.00	
Title	Notice about the flag bit of DMAC (SH7670 Group, SH7710 Group, SH7712, SH7713, SH7619 Group, SH7641)			Information Category	Technical Notification		
Applicable Product	R5S76700B200BG R5S76700D133BG R5S76710B200BG R5S76710D133BG R5S76720B200BG R5S76720D133BG R5S76730B200BG R5S76730D133BG HD6417710BP HD6417710F HD6417712BP HD6417712F HD6417713BP HD6417713F	R5S76190B125BG R5S76190B125BGV R5S76190N125BG R5S76190N125BGV R5S76190D125BG R5S76190D125BGV R5S76190W125BGV R5S76190W125BGV R5S76191B125BGV R5S76191B125BGV R5S76191N125BGV R5S76191N125BGV R5S76191D125BGV R5S76191D125BGV R5S76191D125BGV R5S76191W125BGV R5S76191W125BGV R5S76191W125BGV R4S76410D100BG	Lot No.	Reference Document	10111100 (1.1200020200 0100)		ual

## [Notice]

About the NMIF bit (NMIF Flag) of DMA Operation Register (DMACOR) in DMAC,

Just when a flag is set to 1, if the flag is read, the read data will be 0, but the internal state will be the same as reading 1.

In that case, if the flag is written 0, the flag will be cleared as 0, because the internal state is the same as reading 1.

## [Workaround]

In the case of using a flag of DMAC, to protect unintended bit clear to 0, please write it as following.

- 1) In the case of intended bit clear, please write 0 after reading 1 to the flag.
- 2) In the other cases, please write 1 to the flag.

If the flag is not used, it is no problem to write 0 to flag (in the case of intended bit clear, write 0 after reading 1 to the flag).

- End of report -