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)

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HITACHI SEMICONDUCTOR TECHNICAL UPDATE

Classification of Production	MCU			No	TN-SH7-439A/E		Rev	1
THEME	Notice of pin function controller(PFC) at external space read access		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	SH7047 Series HD64F7047,HD6437049 SH7144 Series HD64F7144,HD64F7145 HD6437144,HD6437145	Lot No.	Reference Documents	SH7046/47 Series Hardware Manual Rev.2.0 (ADE-602-237A) SH7144 Series Hardware Manual Rev.2.0 (ADE-602-254A)			Effective Date	
		ALL Lots					Permanent	

Notice of pin function controller(PFC) at external space read access have been revised(for SH7047 series and SH7144 series).

When data is readed from external spaces, set the data input/output pins as follows by pin function controller(PFC), according to the CS space[1] size by BCR1.

• The case of CS spaces are byte(8bits) size, set all of D7 to D0 should be data input/output pins.
• The case of CS spaces are word(16bits) size, set all of D15 to D0 should be data input/output pins.
• The case of CS spaces are long-word(32bits) size, set all of D31 to D0 should be data input/output pins.

In the case that pin functions are selected different from above, LSI has never get the correct data at external space read access.
This notice is common for all CS spaces[1]

Notes:[1] ••• SH7047series has CS0 space only.