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

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HITACHI SEMICONDUCTOR TECHNICAL UPDATE

Classification of Production	Development environment				No	TN- EML-091A/E	
тнеме	2678R 2668 2368 and 2378 series		Classification of Information	1. Spec change 2. Supplement of Documents (3) Limitation of Use		4. Change of Mask 5. Change of Production Line	
	HS2678EPI61H or HS2678REPI61H	Lot No.				Rev.	Effective Date
PRODUCT NAME		All lots	Reference Documents	H8S Series I Emulato ADE-702-1	r	1.0	Permanent

In the H8S/2678, 2678R, 2668, 2368 and 2378 series E6000 emulator, there is the following limitation.

1. Limitation

Take care when using the emulator because one cycle of trace mnemonics is not displayed immediately before the refresh cycle, when DRAM or SDRAM is used in the external area and the following conditions are satisfied:

- (1) The external access at CBR refresh is disabled when using the DRAM and refreshing CBR (CBRM bit in REFCR = 1), and the cycle immediately before the refresh cycle accesses the external area.
- (2) The cycle immediately before the refresh cycle accesses the external area at SDRAM automatic refresh.

This phenomenon does not occur when the emulator SIMM memory is used even if the cycle immediately before the refresh cycle accesses the external area.

2. Countermeasure

When DRAM is used, enable the external access at CBR refresh (CBRM bit in REFCR = 0).