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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HITA	CHI SEMICONDUCTOR TI	ECHN	NICAI	L UPDATE			
DATE	10th August, 1999	No.	Tì	I- EML - 048 A/E			
THEME	Limitations on H8S/2227, 2237, 2258, 2238 E6000 emulator						
CLASSIFICATION	☐ Spec. change ☐ Limitation on Use ☐ Supplement of Documents						
PRODUCT NAME	HS2633EPI61H	Lot No.	etc.	All			
REFERENCE	None	Effective	e Date	Permanent			
DOCUMENT		From					
When the H8S/2227,2237, 2258, 2238 E6000 emulator (HS2633EPI61H) is used, note that there are the following							
limitations. These limitations are not applied to H8S/2633, 2623 series.							
1. Microcomputers th	at E6000 emulator (HS2633EPI61H) supports classi	fied by us	ing multip	lier in two as Table. I.			
	Table.1						
Multiplier	Microcomputers						
used	H8S/2633 series, H8S/2623 series						
H	TTOCIONAS : TTOCIONAS : TTOCIONAS :	TT0 (7 (0)		1			

H8S/2227 series, H8S/2237 series, H8S/2238 series, H8S/2258 series However, in the E6000 emulator (HS2633EPI61H), even if H8S/2227, 2237, 2238, 2258 series is selected, the multiplier

MULXS.B Rs, Rd

MULXS.W Rs, ERd

MULXS

operates and the number of instruction execution states is less than the actual microcomputer as Table.2(same as the H8S/2633, 2623 series). Table.2

		Number of instruction execution states		
Execution instruction	Mnemonic	H8S/2227, 2237, 2238, 2258	E6000 emplator	
	_	series microcomputer operation	operation	
MULXU	MULXU.B Rs, Rd	12	L	
	MULXU, W Rs. Erd	20	4	

13

21

2. When 8-bit timers are used in H8S/2227, 2237, 2238, 2258 series, clock input and reset input for timer are different from the actual microcomputer operation as the Table. 3. Do not use external clock/reset input for Timer 1 and 3 with E6000 emulator. Note: Channel 2 and 3 are not used by H8S/2227, 2237 series.

Table.3						
Microcomputers	Pin name	Symbol	Target channel of microcomputers	E6000 emulator operation		
H8S/2227, 2237, 2238, 2258 series	Timer clock input pin 01	TMCI01	Ch0 and Ch1 can be selected	Ch0 only operates correctly		
	Timer reset input pin 01	TMRI01	Ch0 and Ch1 can be selected	Ch0 only operates correctly		
H8S/ 2238, 2258 series	Timer clock input pin 23	TMCR23	Ch2 and Ch3 can be selected	Ch2 only operates correctly		
	Timer reset input pin 23	TMRI23	Ch2 and Ch3 can be selected	Ch2 only operates correctly		

3. The Contents of the HD64F2633 Technical Update(TN-H8*-135A) is available to the emulator.