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)

Send any inquiries to http://www.renesas.com/inquiry.

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-R8C-A004B/E	Rev.	2.00			
Title	Notes on Low-Consumption-Current Rea	Current Read Mode		Technical Notification					
Applicable Products	R8C/3x Series R8C/Lx Series	Lot No.	Reference Document						
 This document is revision 2.00 for the TN-R8C-A004A/E technical update issued on July 28, 2009. Please note that the contents in number 1 have been partially revised, a third bullet has been added to number 2, and number 3 in revision 1.00 has been deleted in this revision. 1. Usage conditions on low-consumption-current read mode Low-consumption-current read mode can be used when the following conditions are met in standard operating mode: The CPU clock is divide-by-4, 8, or 16 of the low-speed on-chip oscillator clock. The CPU clock is divide-by-1 (no division), 2, 4, or 8 of the XCIN clock. Note: Even if the above conditions are met, do not use low-consumption-current read mode when the CPU clock is 									
3 kHz or 2. Note whe • After se read mo • Set the (low-cor		ribed in number described in nur	1, set the FMR2 nber 1 when the	27 bit to 1 (low-consump FMR27 bit is 0	tion-curre				
	BCLR7,FMR2; Low-colBSET0,PRCR; WritingFSETI; EnableBSET0,CM1; Stop modJMP.BLABEL_001	write mode disa nsumption-curre to the CM1 regis interrupt	bled nt read mode di						



			e		
	~When a	executing the WA	IT instructions		
	BCLR BCLR FSET WAIT NOP NOP NOP NOP	1,FMR0 7,FMR2 I	; CPU rewrite mode	disabled current read mode disabled	
	<when s<br="">BCLR BCLR BSET FCLR BSET NOP NOP NOP NOP BCLR FSET</when>	setting the CM30 1,FMR0 7,FMR2 0,PRCR I 0,CM3 0,PRCR I	; CPU rewrite mode	current read mode disabled register enabled	
3.		7 bit to 1 while the	-	nemory stops). Also, do not set the FN after changing the FMSTP bit from	
	FMSTP bit				
	FST7 bit	0 (bu	sy)	1 (ready)	
	Do not	set to low-consum	ption-current read mode.	Low-consumption-current read mode enabled	
		(Make sure the	FMR27 bit is 0.)		
4.	Note on CPU rewrite r Do not execute the pro		, block erase command,	or lock bit program command while th	e FMR27 bit is 1.

