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.

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April 1st, 2010 Renesas Electronics Corporation

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Date: Mar.25.2004

RENESAS TECHNICAL UPDATE

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Product Category	MPU&MCU		Document No.	TN-H8*-267A/EA	Rev.	1.0
Title	H8/36912 Group and H8/36902 Group specification	ion changes	Information Category	Specification change		
		Lot No.				
Applicable Product	H8/36912 Group and H8/36902 Group	All	Reference Document	H8/36912 Group, H8/36 Hardware Manual REJ09B0105–0100Z	902 Group Rev.1.0)

We wi	sh to notify you of the following changes in H8/36912 Group and H8/36902 Group single-chip microcomputers, as detailed below.
1. Cl	hanges are shown below.

Section5 Clock Pulse Generators

[Before change]

Backup of the external oscillation halt is available.

[After change]

Backup of the external oscillation halt is not available.

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ltem	Page	Revisi	ons (See Ma	nual for I	Details)				
Section 5 Clock Pulse	66	Item deleted							
Generators				ects the external oscillation halt. If detected, the system clock source vitched to the internal RC oscillation clock.					
5.1 Features		automa	alically Switch	ed to the	пцетта	RC OSCIIIATION CIOCK.			
Backup of the external oscillation halt									
5.2.4 Clock Control/Status	70	[Before							
Register (CKCSR)		Bit	Bit Bit Name		R/W	Description			
		5	OSCBAKE	0	R/W	External Clock Backup Enable			
						0: External clock backup disabled			
						1: External clock backup enabled			
						The detection circuit for the external clock is enabled when this bit is 1. When the external clock halt is detected while this LSI operates on the external clock, the system clock source is automatically switched to the internal RC oscillator regardless of the value of bit 4 in this register.			
						Usage Note: The detection circuit for the external clock operates on the internal RC clock. When this bit is set to 1, do not set the internal RC oscillator to the standby state by the RCSTP bit in RCCR.			
		[After c	hange]						
		Bit	Bit Name	Initial Value	R/W	Description			
		5	_	0	R/W	Reserved			
						Although this bit is readable/writable, it should not be set to 1.			

Page

Revisions (See Manual for Details)

Initial

Value

0

R/W

R/W

[Before change]

Bit Name

OSCSEL

Bit

Item

5.2.4 Clock Control/Status

Register (CKCSR)

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)
Description
LSI Operation Clock Select
When OSCBAKE = 0 This bit forcibly selects the system clock of this LSI.
0: Selects the internal RC clock as the system clock.
1: Selects the external clock as the system clock.
• When OSCBAKE = 1
This bit switches the internal RC clock to the external clock. When this LSI operates on the internal RC clock, setting this bit to 1 switches the system clock to the external clock.
[Setting condition]
 When 1 is written to this bit while the CKSWIF bit is 0.
[Clearing conditions]
When 0 is written to this bit
When the external clock halt is detected while OSCBAKE = 1
Description

[After change] **Bit Name** Initial R/W Description Value R/W LSI Operation Clock Select OSCSEL This bit selects the system clock of this LSI. 0: Selects the internal RC clock as the system clock. 1: Selects the external clock as the system clock.

Item	Page	Revisions (See Manual for Details)							
5.2.4 Clock Control/Status	71	[Befor	e change]						
Register (CKCSR)		Bit Bit Name		Initial Value	R/W	Description			
		1	OSCHLT	1	R	External Clock Halt Detection Flag			
						• When OSCBAKE = 1			
						This bit indicates the checking result of the external clock state.			
						0: External oscillation is in use			
						1: External oscillation is halted.			
						• When OSCBAKE = 0			
						This bit is meaningless. This bit is always read a 1.			
		[After change]							
		Bit Bit Name		Initial R/W Value		Description			
		1	#	1	R	Reserved			
						This bit is always read as 1.			
		[After	while the ba change]	ckup fun	ction is	witched to the internal RC clock by user software disabled tched to the internal RC clock by user software.			
Item	Page		ions (See Ma						
5.3.1 Clock Control	72		-	illual loi	Details)			
Operation	12	[Before change] The LSI system clock is generated by the internal RC clock after a reset. The internal RC clock is switched to the external clock by the user software. Figure 5.3 shows the flowchart to switch clocks with the external oscillator backup function enabled. Figure 5.4 and 5.5 show the flowcharts to switch clocks with the external oscillator backup function disabled.							
		[After	change]						
		The LSI system clock is generated by the internal RC clock after a reset. The internal RC clock is switched to the external clock by the user software. Figures 5.4 and 5.5 show the flowcharts to switch clocks.							
Figure 5.3 Flowchart of Clock Switching with Backup Function Enabled	72	Figure	5.3 deleted.						
Figure 5.4 Flowchart of Clock Switching (1) (From Internal RC Clock to External Clock)	73	Figure	title amende	d.					

tem	Page	Revisions (Se	e Manua	l for Deta	nils)					
Figure 5.5 Flowchart of	74	Figure title amended.								
Clock Switching (2) From External Clock to		[Before change								
Internal RC Clock)			_							
					Chart					
				(LSI op	Start erates on inter	nal RC clock)			
							1			
		Write 0 to OSCBAKE in CKCSR								
			į							
		[After change]								
		[
			=							
				(I SLor	Start erates on inter	nal RC clock	\mathcal{L}			
				((2010)	lerates on inter	nai ito diodi	<i>y</i>			
					↓					
				Wr	ite 0 to RCSTP	in RCCR]			
			:							
Figure 5.8 External	77	Figure 5.8 dele	tod							
Oscillation Backup Timing	11	i iguie 3.6 dele	ieu.							
Section 19 List of Registers	285	[Before change	el							
19.2 Register Bits		Register Name	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	
TOLE TROUBLES BIRO		CKCSR	PMRC1	PMRC0	OSCBAKE	OSCSEL	CKSWIE	CKSWIF	OSCHLT	
		[After change]								
		Register Name	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	
		CKCSR	PMRC1	PMRC0		OSCSEL	CKSWIE	CKSWIF		
			FIVING	FIVINGO		USUSEL	CKSWIE	CKSWIF		
		_								
		_								