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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RENESAS TECHNICAL UPDATE

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Product Category	MPU&MCU		Document No.	TN-SH7-A607A/E	1.00		
Title	The error correction and change description about bit synchronous circuit of I ² C bus interface 3 (IIC3)		Information Category	Technical Notification			
Applicable Product							
	SH7210 Series SH7260 Series	ALL	Reference Document	See below			

We would like to inform you of the following error correction and change description about bit synchronous circuit of the I^2C bus interface 3 (IIC3) included in the applicable products listed in the following table.

1. Error correction about time for monitoring SCL

Following shows error correction of values on CKS[3]=1.

[Error]

CKS[3]	CKS[2]	Time for Monitoring SCL
0	0	9 tpcyc
	1	21 tpcyc
1	0	19 tpcyc
	1	43 tpcyc

[Correction]

CKS[3]	CKS[2]	Time for Monitoring SCL
0	0	9 tpcyc
	1	21 tpcyc
1	0	33 tpcyc
	1	81 tpcyc

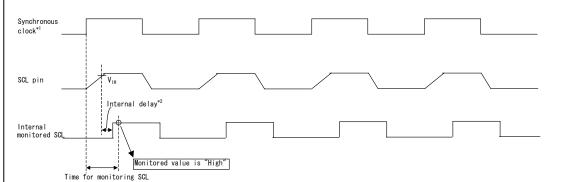


2. Change description about bit synchronous circuit timing figure

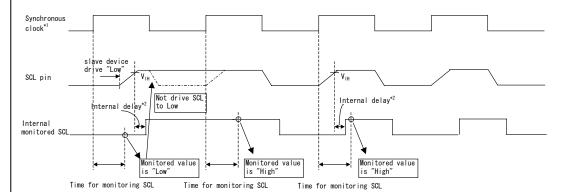
Following shows the figure of bit synchronous circuit timing after description changed.

- · Add "Normal case" and "Case that SCL is driven to low by the slave device" .
- Add supplemental description.

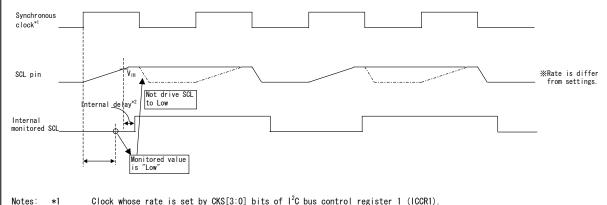




(b) Case that SCL is driven to low by the slave device







tes: *1 Clock whose rate is set by CKS[3:0] bits of l²C bus control register 1 (ICCR1). *2 3~4 t_{peye} when NF2CYC bit of NF2CYC register (NF2CYC) is 0, and 4~5 t_{peye} when NF2CYC bit is 1.



Applicable Products and Reference Documents

Applicable Products		Reference Document Title	Rev.	Document No.	
Series	Group		Rev.	Document No.	
SH7200 Series	SH7201	SH7201 Group Hardware Manual	Rev.1.0	REJ09B0321-0100	
	SH7203	SH7203 Group Hardware Manual	Rev.1.0	REJ09B0313-0100	
	SH7206	SH7206 Group Hardware Manual	Rev.2.0	REJ09B0191-0200	
SH7210 Series	SH7211	SH7211 Group Hardware Manual	Rev.1.0	REJ09B0344-0100	
SH7260 Series	SH7261	SH7261 Group Hardware Manual	Rev.1.0	REJ09B0320-0100	
SH7200 Selles	SH7263	SH7263 Group Hardware Manual	Rev.1.0	REJ09B0290-0100	

