To our customers,

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.

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RENESAS TECHNICAL UPDATE

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Renesas Technology Corp.

Product Category	MPU&MCU			Document No.	TN-SH7-A595A/E	Rev.	1.00
Title	Usage Limitation for Deep Standby Mode in SH7261 Group and SH7201 Group Products			Information Category	Technical Notification		
Applicable Product	SH7261 Group SH7201 Group	Lot No.		Reference Document	SH7261 Group Hardware Manual (REJ09B0320-0100, Rev. 1.00) SH7201 Group Hardware Manual (REJ09B0321-0100, Rev. 1.00)		
		Unrevised products of the left groups					

Thank you for your consistent patronage of Renesas semiconductor products.

There was a failure in the function to cancel deep standby mode in an SH7261/SH7201 Group product. We would like to inform you of the phenomenon and usage limitation. Please take this information into consideration when using these products.

On canceling deep standby mode, the LSI could not operate correctly in some cases because the oscillation settling time was not counted correctly.

[Failure Phenomenon]

When deep standby mode is canceled in an SH7261/SH7201 Group product, the reset exception handling should be started after the oscillation settling time specified in the deep standby oscillation setting clock select register (DSCNT) has been counted. The generated failure is that the LSI does not operate correctly if the oscillation settling time after canceling deep standby mode is short, as in the case in which the reset vector is fetched without waiting for the oscillation settling time set in DSCNT to be counted or the case in which the reset vector is fetched before the oscillation settling time has passed.

Note that this failure occurs only when canceling deep standby mode and that no problem occurs when canceling software standby mode.

[Usage Limitation]

To solve this failure, hardware of the SH7261/SH7201 Group products is revised. For products manufactured before this revision, usage of all functions to make a transition to deep standby mode or to cancel deep standby mode is prohibited. In order to operate in deep standby mode, use a revised product. For delivery of the product, please consult your sales agency.

The unrevised product type names and revised product type names are shown below.

[Product type names before revision]   [Product type names after revision]

SH7261 Group: **SH7261 Group:**

R5S72611P80FP   R5S72611RP80FP

R5S72611P100FP   R5S72611RP100FP

R5S72611B120FP   R5S72611RB120FP

R5S72612P80FP   R5S72612RP80FP

R5S72612P100FP   R5S72612RP100FP

R5S72612B120FP   R5S72612RB120FP

R5S72613P80FP   R5S72613RP80FP

R5S72613P100FP   R5S72613RP100FP

R5S72613B120FP   R5S72613RB120FP

SH7201 Group: **SH7201 Group:**

R5S72011W100FP   R5S72011RW100FP

R5S72011B120FP   R5S72011RB120FP

We apologize for the inconvenience and ask for your understanding.

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