

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>.

RENESAS TECHNICAL UPDATE

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Renesas Technology Corp.

Product Category	MPU&MCU		Document No.	TN-SH7-A660A/E	Rev.	1.00
Title	Defect in Software Standby Mode		Information Category	Technical Notification		
Applicable Products	All SH7124, SH7125, SH7243, SH7285, and SH7286 products	Lot No.	Reference Document	SH7125- and SH7124-Group Hardware Manual Rev.3.00 (REJ09B0243-0300) SH7280 Group Hardware Manual Rev.1.00 (REJ09B0393-0100)		
		All lots				

We would like to inform you that a defect in software standby mode has been found in all of the following groups: SH7124, SH7125, SH7243, and SH7285, SH7286. Please take this information into consideration when using these products.

1. Description of the Defect

During operation of the specified chips, i.e. those of the SH7124, SH7125, SH7243, SH7285, and SH7286 Groups, after recovery of operation from software standby mode, a defect in the voltage-controlled oscillator of the PLL circuit leads to abnormal oscillation such that the frequency-multiplied signal repeatedly stops and runs at too high a frequency, and in some cases does not arrive at the target system-clock frequency.

2. Preventive Measures

2.1 Preliminary

Do not use software standby mode.

2.2 Permanent

Chip revision for the target products is in progress. We plan to make upgraded versions of the products available successively from October, 2008. Details will be separately announced.