

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

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan
Renesas Technology Corp.

Product Category	MPU&MCU	Document No.	TN-SH7-A608A/E	Rev.	1.00
Title	SH7720 Canceling Software Standby Mode		Information Category	Technical Notification	
Applicable Product	SH7720 group	Lot No.	Reference Document	SH7720 Hardware Manual (REJ09B0033-0200 Rev.2.00)	
		ALL			

There are the amendments of the Canceling Software Standby Mode.

1. Page 257 of 1382 **8.4.2 IRQ Interrupts**

Amendment

Original

IRQ interrupts can be used to recover from standby when the corresponding interrupt level is higher than that of the SR registers I3 to I0.

Amended

IRQ interrupts in the edge detection mode can be used to recover from standby when the corresponding interrupt level is higher than that of the SR registers I3 to I0.

2. Page 257 of 1382 **8.4.3 IRL Interrupts**

deletion

In standby mode, noise canceller is handled by the RTC clock because the peripheral module clocks are halted. Therefore, when RTC is not used, recovering to standby by IRL interrupts cannot be executed in standby mode.

3. Page 258 of 1382 **8.4.4 PINT Interrupts**

addition

PINT interrupts can be used to recover from standby mode when the corresponding interrupt level is higher than that of the SR registers I3 to I0.

4. Page 473 of 1382 **13.5.2 Canceling Software Standby Mode**

Amendment

Original

Software standby mode is canceled by interrupts (NMI, IRQ, IRL, RTC, TMU, and PINT) or a reset.

Canceling with Interrupt: The on-chip WDT can be used for hot starts. When the chip detects an NMI, IRQ*, IRL*, RTC*, TMU*, or PINT* interrupt, ...

Amended

Software standby mode is canceled by interrupts (NMI, IRQ(edge detection), RTC, TMU, and PINT) or a reset.

Canceling with Interrupt: The on-chip WDT can be used for hot starts. When the chip detects an NMI, IRQ(edge detection)*₁, RTC*₁, TMU*₁, or PINT*₁ interrupt, ...

5. Page 474 of 1382 **Notice of 13.5.2**

Amendment

Original

Notes: 1. When the RTC is used, a software standby mode is canceled by IRQ, IRL, RTC, TMU, or PINT.

Amended

Notes: 1. When the RTC is used, a software standby mode is canceled by IRQ(edge detection), RTC, TMU, or PINT.