

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>

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Renesas Electronics Corporation

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RENEASAS TECHNICAL UPD

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Product Category	MPU&MCU		Document No.	TN-H8*-271A/EA	Rev.	1.0
Title	The cautions on USB use of power-on reset by WDT		Information Category	Usage Limitation		
Applicable Product	H8S/2215 Group		Lot No.	H8S/2215 Series Hardware Manual ADE-602-217B Rev.3.0 H8S/2218,H8S/2212 Group Hardware Manual REJ09B0074-02000 Rev.2.0		
	H8S/2218 Group		All			
	H8S/2212 Group					

There are the following notes about the built-in USB of H8S/2215,H8S/2218 and H8S/2212 group

1. Contents

Since the register of USB is not initialized by the power-on reset by the watch dog timer (following, WDT), USB may be unable to operate normally after the power-on reset by WDT in CPU reckless run etc.

(At the time of the power-on reset signal input from a $\overline{\text{RES}}$ pin, since a USB register is initialized, it is no problem.)

2. Workaround

This fault is avoidable by carrying out the direct write of the initial value to the three following registers by the initialization routine immediately after reset, and initializing the register of Built-in USB certainly.

- UCTLR = H'03
- UIER3 = H'80
- UIFR3 = H'00