

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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RENESAS TECHNICAL UPDATE

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Product Category	Application specific IC		Document No.	TN-ASP-A023A/E	Rev.	1.00
Title	R8A66597 Notes on DEND_N signal output		Information Category	Technical Notification		
Applicable Product	USB ASSP R8A66597	Lot No.	Reference Document	R8A66597 Datasheet (REJ03F0229)		

1. Phenomenon

When the DENDx_N signal is set to disabled (DNEDE=0), DENDx_N signal may be asserted.

2. Occurring Conditions

There are no effects on the system when the DENDx_N pin is opened.

[1. Phenomena] described above occur when condition 1 is present at the same time as condition 2.

Condition 1: The DENDE bit of the DMAxCFG register is set to "0" (DENDx_N signal disabled).

Condition 2: A read direction pipe is set to the CURPIPE bit of the Dx FIFOSEL register.

3. Countermeasure

(1) When the DENDx_N pin is not used;

The DENDx_N pin should be opened as described in the datasheet

(2) When the DENDx_N pin is used;

The condition must be avoided that both the DENDx_N and the pin of the LSI connected to DENDx_N are output direction.

Set the registers belong to the following sequence.

(a) When setting the Dx FIFO to reading direction:

Set the Dx FIFO direction to reading, after set the port direction of the connected LSI to input.

(b) When setting the Dx FIFO to writing direction from the reading direction or to not used from the reading direction.

Set the Dx FIFO direction, after set the port direction of the connected LSI to output or not used.

4. Permanent measures

This problem will be fixed by revision of the R8A66597 chip.

[Revision Schedule]: It will be released on the end of Oct, 2008.

Type Name	Revised warehouse type	Current warehouse type
R8A66597FP	RF1S(Tray)	RF0S(Tray)
R8A66597DFP	RB1S(Tray)	RB0S(Tray)
R8A66597BG	RF1S(Tray)	RF0S(Tray)
	DF1S(Tape)	DF0S(Tape)