

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	MPU/MCU		Document No.	TN-SH7-A751A/E	Rev.	1.00
Title	SH7751/SH7751R PCIC Master Access Parity Error Detection		Information Category	Technical Notification		
Applicable Product	SH7751Group SH7751RGroup	Lot No.	Reference Document	SH7751 Group, SH7751R Group Hardware Manual (REJ09B0370)		
		All lots				

There is a notification about the SH7751/SH7751R PCIC parity error detection in a master read access.

[Summary]

When the PCIC executes a master read access, the PCIC may not detect the parity error.

[Condition]

When all the following conditions (1)-(2) are satisfied, the PCIC can not detect a data parity error. And then the PERR# is not asserted, and PCIIR.MRDPEI is not set to 1 like the PCIC does not detect a data parity error.

(1)PCIC (master) condition

(1-1) PER bit in a PCI configuration register 1 is set to 1. (Using parity error detection (PERR#))

(1-2) PCI transaction: memory read access (single or burst)

(2) External PCI device (target) condition

(2-1)Target initiated disconnect (with data): STOP# assert

[System problem]

When a target initiated disconnect (with data) occurs, the parity error for the disconnected data cycle can not be detected and the PERR# is not asserted.

[Workaround]

There is no workaround by the PCIC.

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