

To our customers,

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## Old Company Name in Catalogs and Other Documents

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On April 1<sup>st</sup>, 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

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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# RENESAS TECHNICAL UPDATE

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Renesas Technology Corp.

Product Category	MPU&MCU	Document No.	TN-SH7-A635A/E	Rev.	1.00
Title	Usage limitation of SH7763 RMII interface		Information Category	Technical notification	
Applicable Product	R5S77630Y266BGV R5S77631Y266BGV R5S77632Y266BGV	Lot No.	Reference Document	SH7763 Hardware Manual (REJ09B0256-0100)	
		All lots			

There is an usage limitation of SH7763 RMII interface.

SH7763 Gigabit Ethernet Controller (GETHER) includes each interface circuit for GMII/MII/RMII to connect to PHY-LSI using the above-mentioned circuit. For the interface timing, refer to 23.5 "Connection to PHY-LSI" in SH7763 Hardware Manual.

RMII interface circuit for reception requires the Preamble as the header of the receiving frame, however, some of the off-the-shelf PHY-LSI may not have it. If the SH7763 is connected to the PHY-LSI without Preamble, it may not detect the receiving frame to lose that frame.

This limitation will be fixed by the revision up of the device.