

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>

April 1<sup>st</sup>, 2010  
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-A665A/E	Rev.	1.00
Title	SH7763 usage limitation fix and part number update		Information Category	Product Generation Change		
Applicable Product	R5S77630Y-266BG	Lot No.	Reference Document	SH7763 Hardware Manual (REJ09B0256-0100)		
	R5S77630Y-266BGV	All lots				
	R5S77631Y266BGV					
	R5S77632Y266BGV					

We would like to inform valued customers on part numbers change by device minor-modifications as described bellow.

- Note -

## 1. Part number change

Part numbers of SH7763 products are changed as listed in table 1.

Table 1. Part number change

Current part number (without minor-modifications)	New part number (with minor-modifications)
R5S77630Y-266BG	(N/A)
R5S77630Y-266BGV	R5S77630 <u>A</u> Y266BGV
R5S77631Y266BGV	R5S77631 <u>A</u> Y266BGV
R5S77632Y266BGV	R5S77632 <u>A</u> Y266BGV

## 2. Existing technical updates

After SH7763 minor-modifications, several existing technical updates are no longer applicable on devices with new part numbers (with minor-modifications). Applicable information for existing technical updates is summarized in table 2.

Table 2. Applicable information of existing technical updates

Document Number	Title	Devices without minor-modification	Devices with minor-modification
TN-SH7-A618A/E	Regarding usage of M_BKPRST# in power up sequence	Applicable	Applicable
TN-SH7-A634A/J	Incorrect output of the DDR-SDRAM interface clocks	Applicable	Not Applicable
TN-SH7-A635A/E	Usage limitation of SH7763 RMI interface	Applicable	Not Applicable

3. About initial value of product register

After device minor-modifications, initial value of product register is changed. Initial values of product register for devices without minor modifications and for devices with minor modifications are summarized in table 3-1 and table 3-2 respectively.

Table 3-1. Initial value of product register for current part number device (without minor-modifications)

Part number	Register name	Abbrev.	R/W	P4 Address	Area 7 Address	Initial value
R5S77630Y-266BGV R5S77632Y266BGV	Product register	PRR	R	H'FF00 0044	H'1F00 0044	H'0000 0A1x
R5S77631Y266BGV						H'0000 120x

Table 3-2. Initial value of product register for new part number devices (with minor-modification)

Part number	Register name	Abbrev.	R/W	P4 Address	Area 7 Address	Initial value
R5S77630AY266BGV R5S77632AY266BGV	Product register	PRR	R	H'FF00 0044	H'1F00 0044	H'0000 0A2x
R5S77631AY266BGV						H'0000 121x

4. Mark example

Mark specification is changed for SH7763 devices with minor-modifications. Mark example is summarized in table 4.

Table 4. Mark example summary

Current part number	Mark example	New part number	Mark example
R5S77630Y-266BGV	<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     R5S77630Y 266BGV SH-4A BL04357 0646 JAPAN                 </div>	R5S77630AY266BGV	<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     R5S77630AY 266BGV SH-4A BL04357 0646 JAPAN                 </div>
R5S77631Y266BGV	<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     R5S77631Y 266BGV SH-4A BL04357 0646 JAPAN                 </div>	R5S77631AY266BGV	<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     R5S77631AY 266BGV SH-4A BL04357 0646 JAPAN                 </div>
R5S77632Y266BGV	<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     R5S77632Y 266BGV SH-4A BL04357 0646 JAPAN                 </div>	R5S77632AY266BGV	<div style="border: 1px solid black; padding: 5px; width: fit-content;">                     R5S77632AY 266BGV SH-4A BL04357 0646 JAPAN                 </div>

- End of report -