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

April 1st, 2010
Renesas Electronics Corporation

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

Send any inquiries to http://www.renesas.com/inquiry.

RENESAS

RENESAS TECHNICAL UPDATE

Classification of Production	MPU			No	TN-SH7-476A/E	Rev	1
THEME	Notice about the sign of the operation result by FIPR and FTRV instruction command.		Classification of Information	1. Spec change 2. Supplement of Documents ③ Limitation of Use 4. Change of Mask 5. Change of Production Line			
PRODUCT NAME	SH7750　　　SH7750S SH7750R　　　SH7751 SH7751R　　　SH7760 SH-4 core use product	Lot No. All	Reference Documents	SH7750 series hardware manual ADE-602-124E SH7751 series hardware manual ADE-602-201B SH7760 hardware manual ADE-602-291		Effective Date Eternity	

There are the following notes about the sign of the operation result by FIPR and FTRV instruction command of SH-4.

1. Notes

When two or more of the data which are operated by FIPR and FTRV instruction command are infinity, and all of the infinities in the result of multiplication in FIPR or FTRV instruction operation have the same sign, there is a possibility to mistake the sign of operation result.

2. Workaround

1. Do not use an infinity. When all of the following (1) – (3) conditions consist, an infinity isn't treated.

   (1) Rounding to Zero (FPSCR.RM = 01) is used as a rounding mode.

   (2) It is not divided by Zero.

   (3) A positive or negative infinity is not loaded to FR0 - FR15 or XF0 - XF15.

2. Neither FIPR nor the FTRV instruction commands are used, and it operates it by FADD, FMUL, and FMAC instruction command.