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.

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April 1st, 2010 Renesas Electronics Corporation

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

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date: 2002/10/04

HITACHI SEMICONDUCTOR TECHNICAL UPDATE

Classification of Production	Microprocessor		No	TN-SH7-428A/E	Rev	1
ТНЕМЕ	SH7727B product code change due to bug fixing Classification of Information		 Spec change Supplement of Documents Limitation of Use Change of Mask Change of Production Line 			
PRODUCT NAME	HD6417727B	Lot No.	Reference Documents	SH7727 Hardware Manual Rev.3.0 ADE-602-209B Eternity		

1. Improvement detail

As for HD6417727B, the following points are improved from HD6417727.

(1) Phenomenon of SIOF module

(HITACHI SEMICONDUCTOR TECHNICAL UPDATE[TN-SH7-405A/E])

(1) [HD6417727] During transmit opration with DMA transfer, DMA transfer request signal is stopped to output unexpectedly from SIOF and underflow error occurs.

[HD6417727B] Ttransmit operation with DMA transfer works correctly.

② [HD6417727] During receive operation with DMA internal peripheral module request mode, some data may be lost, due to overflow error caused on the manner that only one data transfer request exceeding watermark of receive FIFO.

[HD6417727B] It becomes possible to submit transfer request to all of the data which exceeded watermark.

(3) [HD6417727] During receive operation, some data may be lost when the writing occurs in the reading from receive FIFO.

[HD6417727B] Receive data lost does not occur.

(2) Phenomenon of GPIO module

[HD6417727] Port G is controlled by bit 3,0 (PG1MD1, PG0MD0) of Port Control Regster(PGCR). [HD6417727B] It is possible to control by bit1,0 (PG0MD1, PG0MD0) correctly.

2. Model name change

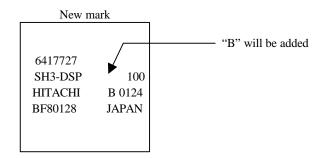
"B" is added to the end (but, pre-position of "V") of the type code.

Previous code	Updated code	Comment
HD6417727F100	HD6417727F100B	HQFP-3232-240
HD6417727F160	HD6417727F160B	(Non Pb free solder)
HD6417727F100V	HD6417727F100BV	HQFP-3232-240
HD6417727F160V	HD6417727F160BV	(Pb free solder)
HD6417727BP100	HD6417727BP100B	CSP-240
HD6417727BP160	HD6417727BP160B	(Non Pb free ball)
HD6417727BP100V	HD6417727BP100BV	CSP-240
HD6417727BP160V	HD6417727BP160BV	(Pb free ball)

- 3.Mark example
- 3.1 HQPF-240 package HD6417727B

6417727 SH3-DSP 100 HITACHI 0124 BF80128 JAPAN

Previous mark



3.2 CSP-240 package HD6417727B



