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)

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HITACHI SEMICONDUCTOR TECHNICAL UPDATE

Classification of Production	Microprocessor			No	TN-SH7-425A/E	Rev	1
THEME	SH7727 usage notice on SIOF (2)		Classification of Information	 Spec change Supplement of Documents Limitation of Use Change of Mask Change of Production Line 			
PRODUCT NAME	HD6417727 HD6417727B	Lot No.		SH7727 Hardware Manual Rev.3.0 ADE-602-209B		Effective Date	
		All	Reference Documents			Eternity	

HD6417727 and HD6417727B's SIOF module has the following usage notice.					
 <u>1. When using the Control Data Interface (Slot Position)</u> 1-1. Phenomenon : In the following transmit operation that transmit data is mixed with control data in a frame. 					
transmit data and control data may be lost.					
(1) At using external clock source SIOMCLK input signal as master clock in the Master mode					
(2) At Slave mode					
1-2. Work around :					
Use the following conditions					
(1) Master mode					
(2) Master clock : internal clock (PCLK)					
2. When using the transmitting in Slave					
2-1. Phenomenon: When transmit anable bit is set in the condition to have written date in transmit EIEO					
in advance, one or two pieces of the first data may be lost					
2-2. Work around ·					
Do not write data in transmit FIFO before transmit enable bit is set.					
3. When using the sending and receiving of control data continuously in the control data inteface					
(secondary FS position).					
3-1. Phenomenon :					
Before transmit control data is sent out, TCRDY bit may become "1".					
Consequently, at writing the following control data in the control data register when TCRDY bit					
is "1" before sending out transmit control data, it overwrites to the control data before sending					
and it erases.					
Also, at this time, control sequence collapse, SIOF mistakes primary FS and secondary FS,					
senting and receiving of data and control data become that it isn't possible to do normally					
as a result.					
S-2. Work around . Write in the control data register after sending out transmit control data					
Fxample :					
With referring to RCRDY and write Transmit Control Data Register(SITCR) when RCRDY is "1".					
After writing transmit control data, always read the receive control register (SIRCR) and					
clear RCRDY bit.					