

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 UPD

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RenesasTechnology Corp.

Product Category	MPU&MCU	Document No.	TN-SH7-509A/EA	Rev.	1.0
Title	SH7705 an errata on the IrDA function		Information Category	Usage Limitation	
Applicable Product	HD6417705F133, HD6417705BP133 HD6417705F133V, HD6417705BP133V HD6417705F100, HD6417705BP100 HD6417705F100V, HD6417705BP100V	Lot No.	Reference Document	SH7705 Group Hardware Manual Rev. 2.0 REJ09B0082-02000	
		All			

## 1. Phenomenon

### Receive

When the Serial Communication Interface with FIFO (SCIF) is used for the IrDA, it may not receive data properly.

### Send

When the Serial Communication Interface with FIFO (SCIF) is used for the IrDA, it may not send the start bit.

## 2. Work around

### Receive

Please synchronize the IrRx signal with CKIO(Figure 1).

Figure 2 shows an example of the circuit. An example of the F/F is HD74ALVC1G79.

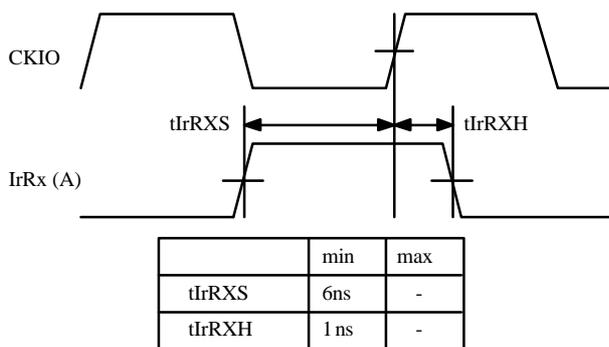


Figure 1.

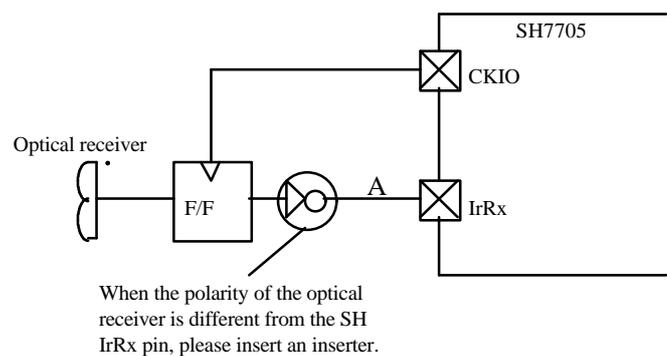


Figure 2.

### Send

When there is an error, please re-send data in IrDA upper communication protocol layer.