

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>)

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HITACHI SEMICONDUCTOR TECHNICAL UPDATE

Classification of Production	MPU		No	TN-SH7-441A/E	Rev	1
THEME	SH7616 product code change due to bug fixing.	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	HD6417616SF HD6417616SFV	Lot No.	Reference Documents	SH7616 Hardware Manual ADE-602-243 Rev.1.0	Effective Date	
		ALL			Permanent	

SH7616 is modified, as countermeasure for “SH7616 limitation of Ethernet Controller Half-duplex transfer”; Hitachi Semiconductor Technical Update[TN-SH7-433A/E]. Product code is changed due to this modification.

Please use new product code.

1. Countermeasure for bug

On operating in Half-duplex transfer mode, there is a case that the SH7616 would transmit a frame with jam, even though any Collision doesn't occur. And it would move into the re-transmission state with back-off algorithm. This bug was all fixed.

2. Model name change

Product code is changed below.

Previous code	New code
HD6417616RF	HD6417616SF
HD6417616RFV	HD6417616SFV

3. Mark example

Previous mark	New mark
6417616RF SH-DSP HITACHI 0219 BB80420 JAPAN	6417616SF SH-DSP HITACHI 0219 BB80420 JAPAN
6417616RFV SH-DSP HITACHI 0219 BB80420 JAPAN	6417616SFV SH-DSP HITACHI 0219 BB80420 JAPAN

4. Mass production schedule for bug fixed products

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