

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

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|------------------------------|--|-----------|-------------------------------|---|-----|----------------|
| Classification of Production | MCU | | No | TN-SH7-421A/E | Rev | 1 |
| THEME | Limitation on use for sleep mode of SH7046 Series. | | Classification of Information | 1. Spec change 2. Supplement of Documents ③ 3. Limitation of Use 4. Change of Mask 5. Change of Production Line | | |
| PRODUCT NAME | SH7046 Series HD64F7046,HD6437048 HD6437148,HD6437101 HD64F7047,HD6437049 | Lot No. | Reference Documents | SH7046 Series Hardware Manual (ADJ-602-252A Date:Mar,2002 Rev.2.0) | | Effective Date |
| | All | Permanent | | | | |

1. There are 4 conditions to clear sleep mode.

- (1) Clearing by an interrupt
- (2) Clearing by DTC address error
- (3) Clearing by the power-on reset
- (4) Clearing by the manual reset

When clearing sleep mode by (1) or (2), CPU may run out of control. Please clear sleep mode by (3) or (4) , don't use (1) or (2).

2. Do not use DTC module or AUD module during sleep mode.