To our customers,

## Old Company Name in Catalogs and Other Documents

On April $1^{\text {st }}, 2010$, 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

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Renesas Electronics Corporation

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RENESAS TECHNICAL UPDATE
Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Renesas Technology Corp.

| Product <br> Category | MPU/MCU | Document <br> No. | TN-R8C-A003A/E | Rev. | 1.00 |
| :---: | :--- | :--- | :--- | :--- | :--- |
| Title | R8C/3x Series, R8C/Lx Series <br> Notes on the A/D Converter | Information <br> Category | Technical Notification |  |  |
| Applicable <br> Product | See below | Lot No. |  |  |  |
|  |  | Reference <br> Document |  |  |  |

1. Notes on the A/D Converter
1) Description

A/D conversion results may contain erroneous data due to possible variances in the internal power supply voltage during conversion. This is caused by the flash memory and A/D converter sharing the same power supply in the MCU.
2) Countermeasure

Take an average of more than one conversion result. ${ }^{(1)}$

Note:

1. Example of averaging procedure:

Perform A/D conversion on the analog input to the same pin four times sequentially. Discard the maximum and minimum values from the A/D conversion results and take the average of the two remaining values.
2. Applicable Products

R8C/35A Group, R8C/33A Group, R8C/32A Group,
R8C/L35A Group, R8C/L35B Group, R8C/L36A Group, R8C/L36B Group,
R8C/L38A Group, R8C/L38B Group, R8C/L3AA Group, R8C/L3AB Group

