

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>)

Send any inquiries to <http://www.renesas.com/inquiry>.

RENESAS TECHNICAL UPDATE

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Renesas Technology Corp.

Product Category	MPU&MCU		Document No.	TN-H8*-A298A/E	Rev.	1.0
Title	H8/38086R group and H8/38076R group notice on use of 10-bit A to D converter		Information Category	Technical Notification		
Applicable Product	H8/38086R Group (Except; F38086H10, F38086W10 and F38086LP10V) H8/38076R Group (Except; F38076H10, F38076W10 and F38076LP10V)	Lot No.	Reference Document	H8/38086R Group Hardware manual (REJ09B0182-0100Z Rev.1.00) H8/38076R Group Hardware manual (REJ09B0093-0200Z Rev.2.00)		
		EIA code former than 0509				

The H8/38086R group and H8/38076R group in the current release contain a following usage notice about 10-bit A to D converter.

(Except; F38086H10, F38086W10, F38086LP10V, F38076H10, F38076W10 and F38076LP10V)

1. Phenomenon

Accuracy of 10-bit A to D converter is worse than that on the hardware manual under the condition that $V_{cc} < V_{cc}$ and V_{cc} is equal or lower than 2.7V.

Table 1 Voltage condition and phenomenon of V_{cc} and V_{cc}

Voltage condition of V_{cc} and V_{cc}	Phenomenon
$V_{cc} \leq V_{cc}$	The characteristics is normal
$V_{cc} > V_{cc}$ and $V_{cc} \leq 2.7V$	The accuracy is worse

2. Countermeasure schedule

Above will be solved on the products marked the EIA code that later than 0509. Schedule for those products are planned as followings.

H8/38076R group will be available in July 2005.

H8/38086R group will be available in September 2005.

The part numbers and the marking codes are not changed.