

To our customers,

---

## Old Company Name in Catalogs and Other Documents

---

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>)

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

# RENESAS TECHNICAL UPDATE

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan  
RenesasTechnology Corp.

Product Category	MPU&MCU	Document No.	TN-720-A065A/E	Rev.	1.00
Title	Completion of improvement of "Note when writing to 4283 Group QzROM"		Information Category	Technical Notification	
Applicable Product	M34283G2GP, M34283G2-XXXGP	Lot No.	Reference Document	---	
		---			

As we informed the TN-720-A064A/E of March 14, 2005, shipping the improved products can be available from October by the following Suffix.

There is no problem with the improved products even if programming is performed with external ceramic resonator oscillated.

Moreover, even if the processing shown in the TN-720-A064A/E is performed, it does not affect the improved products.

The purpose of this improvement is to simplify the termination of pins on the user side when on-board programming.

Accordingly, there is no change in the electrical characteristics, functions, reliability and package.

We identify present products and improved products by only the following Suffix.

As for the Suffix and delivery date after ordering, please contact the sales department.

	Suffix of Present products	Suffix of Improved products
Tube	U0	U1
Tape & Reel	W4	W5

-----the following is the contents of TN-720-A064A/E-----

When writing to 4283 Group QzROM, note the following;

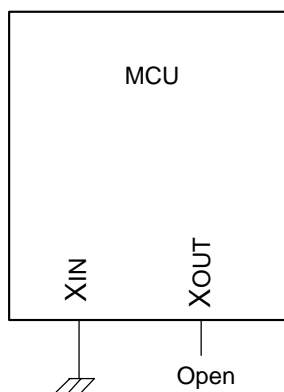
<Note>

If an external ceramic resonator is oscillating when writing to 4283 Group QzROM, writing may not be performed correctly.

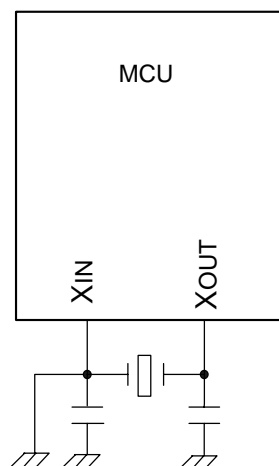
When writing to QzROM, set the XIN pin and XOUT pin to (1) or (2) shown below.

1: Connect XIN pin to Ground and leave XOUT open.

2: Connect a ceramic resonance circuit between XIN and XOUT externally, and connect XIN pin to Ground.



Circuit example (1)



Circuit example (2)