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

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RENESAS

MESC TECHNICAL NEWS

740 Family Notes on Interrupts

Classification

  Corrections and supplementary
            explnation of document

✔ Notes

  Knowhow

  Others

Concerned Products

740 Family

When setting the followings, please follow the procedure of this news.

●When permitting serial I/O transmission interrupt

As for serial I/O that can be switched between a clock synchronous and asynchronous (UART) serial I/O, when setting the transmission enable bit to "1", the transmit interrupt request bit is automatically set to "1". When not requiring the interrupt occurrence synchronized with the transmission enabled, take the following sequence.

  ① Set the serial I/O transmit interrupt enable bit to "0" (disabled).

  ② Set the transmit enable bit to "1".

  ③ Set the serial I/O transmit interrupt request bit to "0" after 1 or more instructions have been executed.

  ④ Set the serial I/O transmit interrupt enable bit to "1" (enabled).

●When setting external interrupt active edge
●When switching interrupt sources of an interrupt vector address where two or
  more interrupt sources are allocated

When setting these, the interrupt request bit may be set to "1". When not requiring the interrupt occurrence synchronized with these setting, take the following sequence.

  ① Set the corresponding interrupt enable bit to "0" (disabled).

  ② Set the interrupt edge select bit (active edge switch bit) or the interrupt (source) select bit to "1".

  ③ Set the corresponding interrupt request bit to "0" after 1 or more instructions have been executed.

  ④ Set the corresponding interrupt enable bit to "1" (enabled).

Though this news contents have already been described in the manual and the data sheet of some products, we will inform you of this news as common notes for 740 Family.