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.

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7516 Group, 3850/3851 Group **Usage Notes Concerning CPU Mode Register**

1. Related products

One Time PROM version M37516E6HP, M38504E6SP/FP, M38514E6SP/FP Mask ROM version M37516M6-XXXHP, M37516M4-XXXHP, M38504M6-XXXSP/FP, M38514M6-XXXSP/FP, M38503M2H-XXXSP/FP, M38503M4H-XXXSP/FP

2. Usage Note

Fix bit 3 of the CPU mode register to "1". (Do not write "0" to this bit.) This bit becomes "1" after reset is released.

3. Reason

Oscillation between XCIN and XCOUT will not be performed normally when using ports P20 and P21 as XCIN-XCOUT oscillation function by setting "0" to bit 3 of the CPU mode register (address 003B₁₆).

4. Countermeasures

Fix bit 3 of the CPU mode register to "1".

5. Remarks

M37515M4-XXXHP, M37515E4HP, M38503M2-XXXSP/FP, M38503M4-XXXSP/FP, M38513M4-XXXSP/FP, M38503E4SP/FP, M38513E4SP/FP For use of above products, oscillation between XCIN and XCOUT can be performed by setting "0" to bit 3 of the CPU mode register (address 003B₁₆). However, we recommend to set the bit to "1".