

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>)

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MESC TECHNICAL NEWS No.M16C-17-9902

M16C/60 Group, M16C/61 Group, M16C/62 Group Precautions For Power Control State Transitions

1. Related devices

M16C/60 group, M16C/61 group, M16C/62 group

2. Precautions

Power control state transition is shown on the next page.

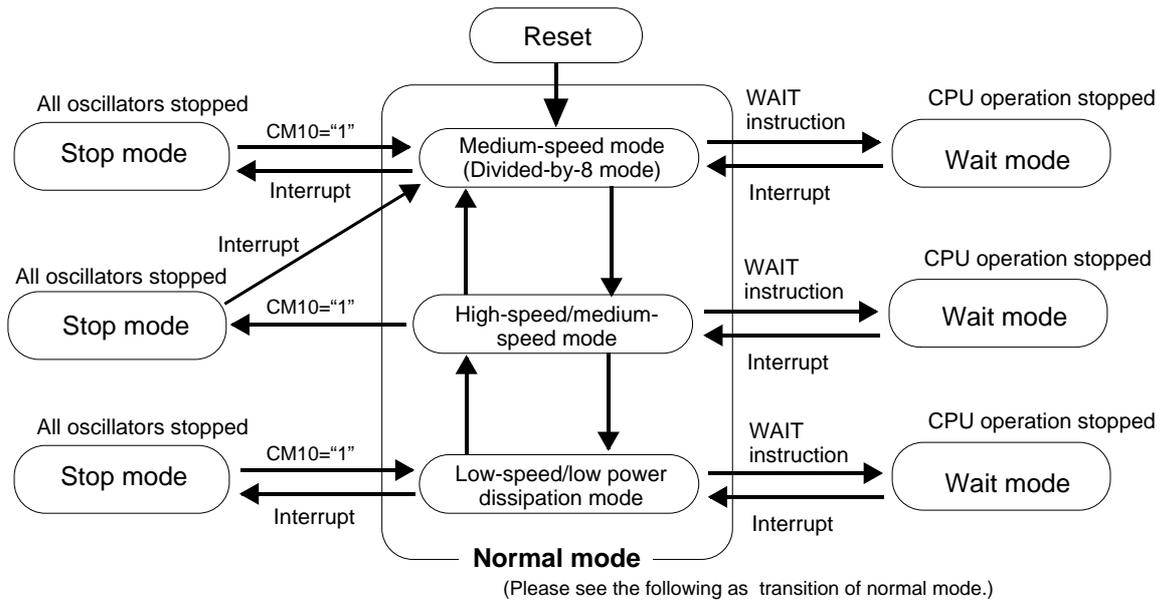
Please change modes according to a directions of arrows.

When count source of BCLK is changed from clock A to clock B (XIN to XCIN or XCIN to XIN), clock B needs to be stable before changing.

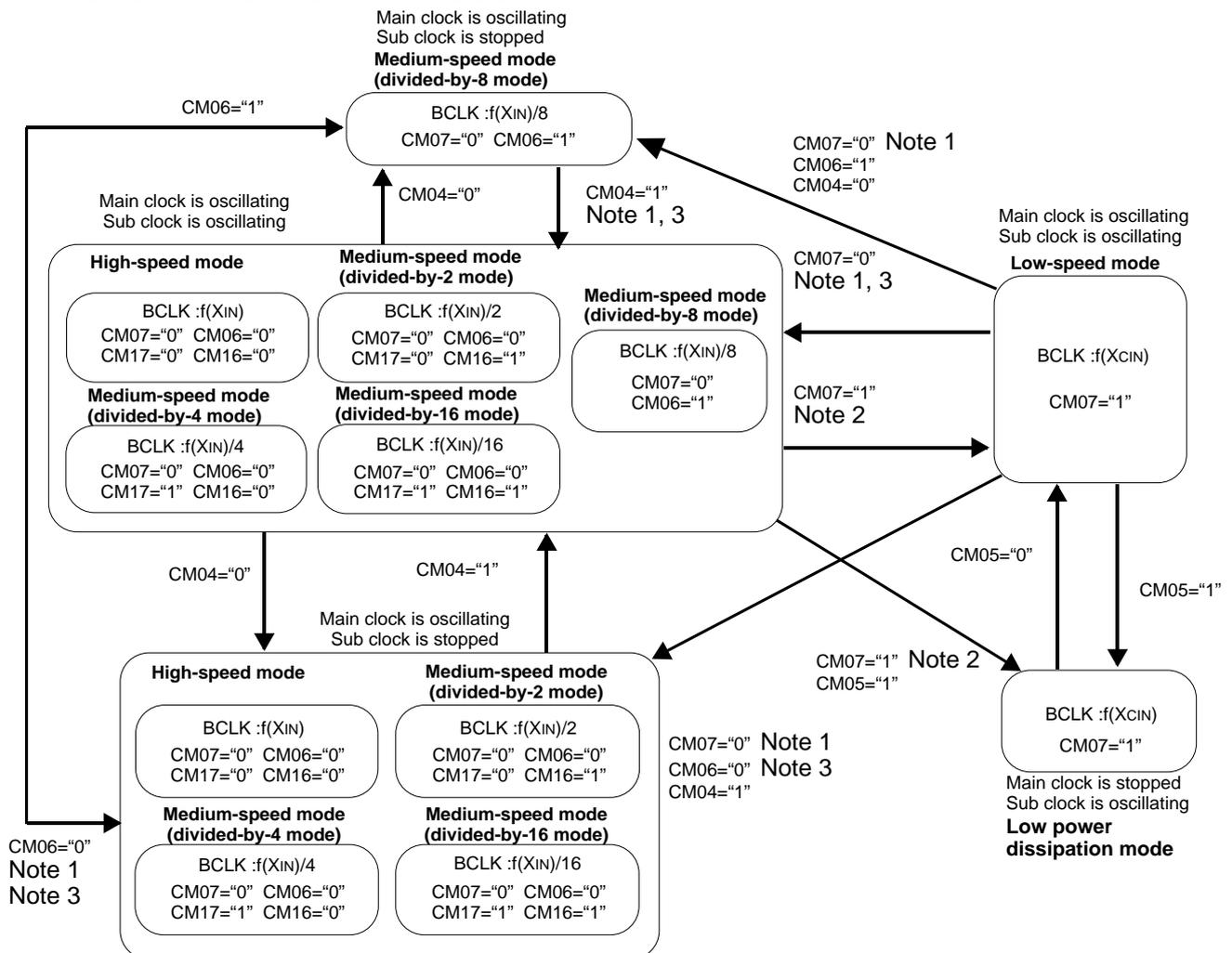
Please wait to change modes until after oscillation has stabilized.

The delay time is depends on the oscillator. Please refer to the oscillator manufacture's specifications.

Transition of stop mode, wait mode



Transition of normal mode



Note 1: Switch clocks after oscillation of main clock is fully stable.
 Note 2: Switch clocks after oscillation of sub clock is fully stable.
 Note 3: Change CM17 and CM16 before CM06.
 Note 4: Please change according to a direction of an arrow.