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Renesas Electronics Corporation

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M16C/26A, M16C/28, M16C/29 Group

Wait Mode Setup

1. Abstract

This document describes the settings and operations to enter wait mode. The setup sequence is shown in Figure 1. The sample program is an example when the INT0 interrupt is used for a recovery source from wait mode.

2. Introduction

The application example described in this document is applied to the following MCUs and parameter(s):
MCUs: M16C/26A, M16C/28, M16C/29 Group

This program can be used with other M16C Family MCUs which have the same special function registers (SFRs) as the M16C/26A, M16C/28, and M16C/29 Group MCUs. Check the manual for any additions and modifications to functions. Careful evaluation is recommended before using this application note.

3. Setup

1. Enable the interrupt control register (INTOIC) to return from stop mode.
2. Set interrupt source select register 2 (IFSR2A).
3. Set the interrupt enable flag (I flag) to 1.
4. Disable the protect to change the content of the system clock control register.
5. Execute the WAIT instruction.

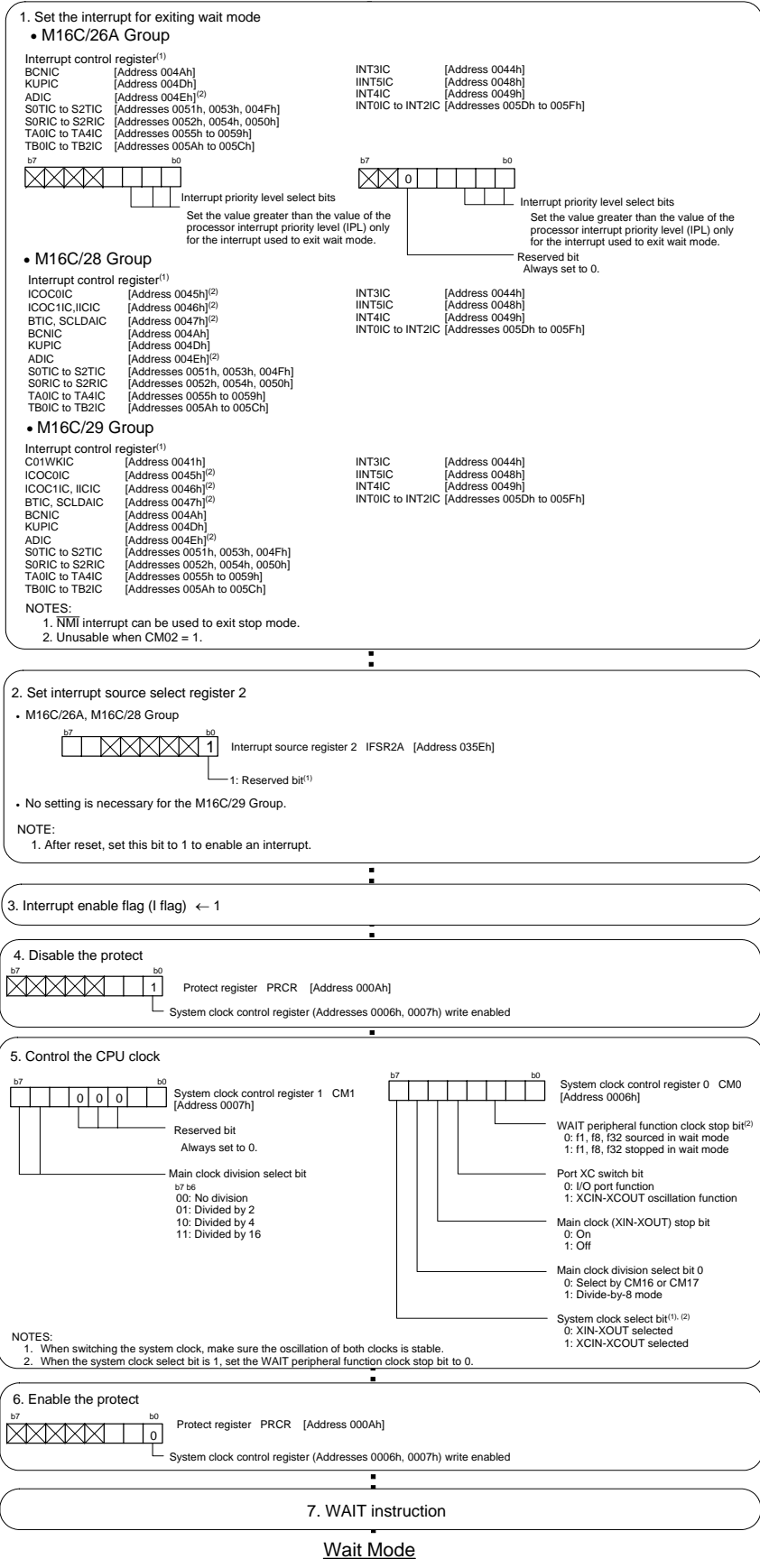


Figure 1 Configuration Example To Enter Wait Mode

4. Sample Programming Code

A sample program can be downloaded from the Renesas Technology website.
For download, click “Application Notes” in the left-hand side menu of the M16C Family page.

5. Reference Documents

Hardware Manuals

M16C/26A Group Hardware Manual

M16C/28 Group Hardware Manual

M16C/29 Group Hardware Manual

The latest versions can be downloaded from the Renesas Technology website.

Technical Update/Technical News

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REVISION HISTORY	M16C/26A, M16C/28, M16C/29 Group Wait Mode Setup
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