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April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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7545 Group

Timer 1 Operation (Timer Mode: 250 ms Timer)

1. Abstract

This document describes how to set up and use timer 1 (timer mode: 250 ms timer) on the 7545 Group device.

2. Introduction

The application example described in this document is applied to the following:

MCU: 7545 Group

Oscillation frequency: 4.19 MHz

This sample program may include operations of unused bit functions for the convenience of the SFR bit layout. Set the values according to the operating conditions of the user system.

3. Contents

3.1 250 ms Timer

Outline: The timer divides the clock and counts up the watch approximately every 250 ms.

Specifications:

- Clock $f(X_{CIN}) = 4.19 \text{ MHz}$ is generated by timer 1.
- The watch is counted up in the timer 1 interrupt routine (occurs approximately every 250 ms).

Figure 3.1 shows the Timer Connection and Division Ratios, Figure 3.2 shows the Relevant Register Settings, and Figure 3.3 shows the Control Procedure.

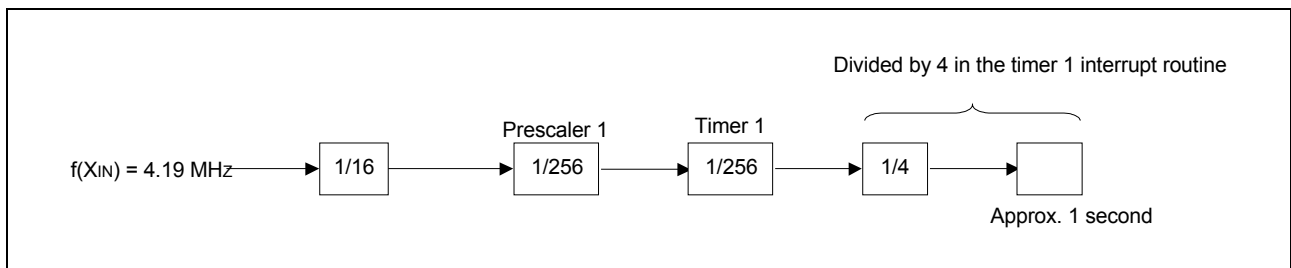


Figure 3.1 Timer Connection and Division Ratios

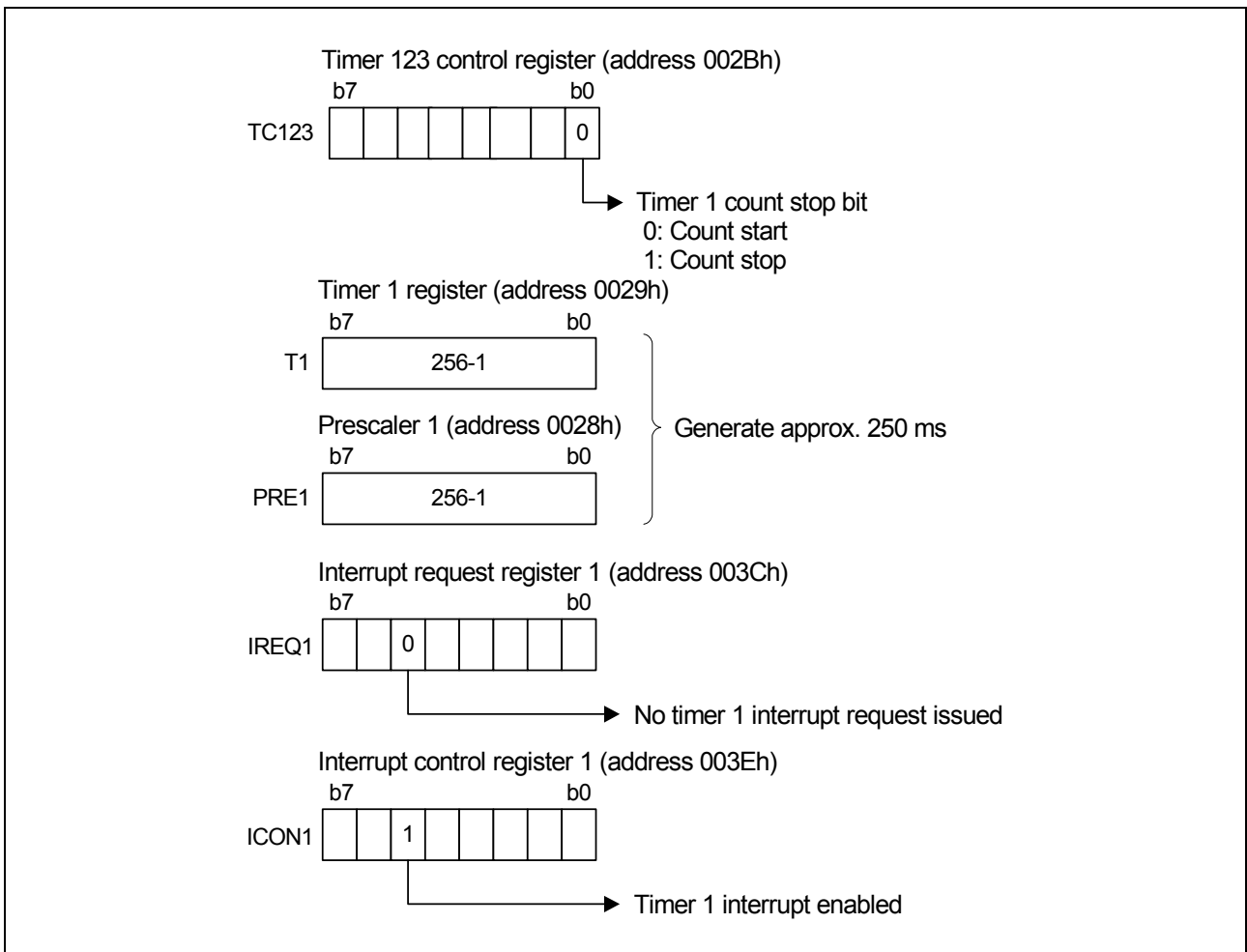


Figure 3.2 Relevant Register Settings

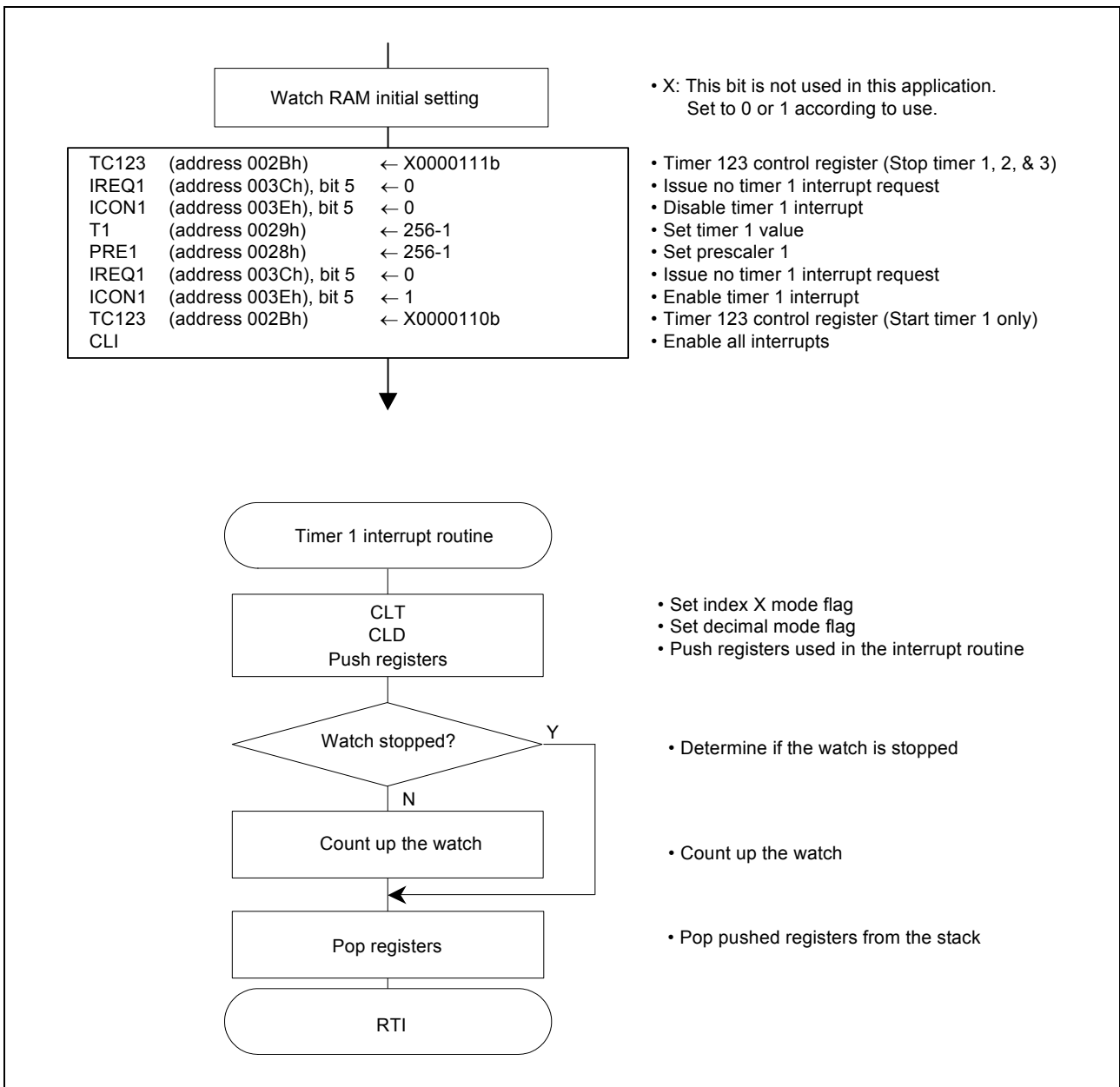


Figure 3.3 Control Procedure

4. Sample Programming Code

Download a sample program from the Renesas Technology website.
To download, click “Application Notes” in the left-hand side menu on the page on the 7545 Group.

5. Reference Document

Datasheet
7545 Group Datasheet
Download the latest version from the Renesas Technology website.

Technical News/Technical Update
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REVISION HISTORY	7545 Group Timer 1 Operation (Timer Mode: 250 ms Timer) Application Note
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Rev.	Date	Description	
		Page	Summary
1.00	Aug 10, 2006	-	First Edition issued

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