

To our customers,

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April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

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## 7545 Group

### Key Input Interrupt

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#### 1. Abstract

This document describes how to set up and use the key input interrupt on the 7545 Group.

#### 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 Key Input Interrupt

Outline:

- Any key input generates a key input interrupt request.
- The key input interrupt forces the MCU to exit from stop mode.

Specifications:

- Key input pins: P00 to P03, with pull-up.
- Key matrix output pins for scanning: P30 to P33.

Figure 3.1 shows the Connection Diagram, Figure 3.2 shows the Example of Key Input Interrupt Operation Timing in Stop Mode, Figure 3.3 shows the Relevant Register Settings, and Figure 3.4 shows the Control Procedure.

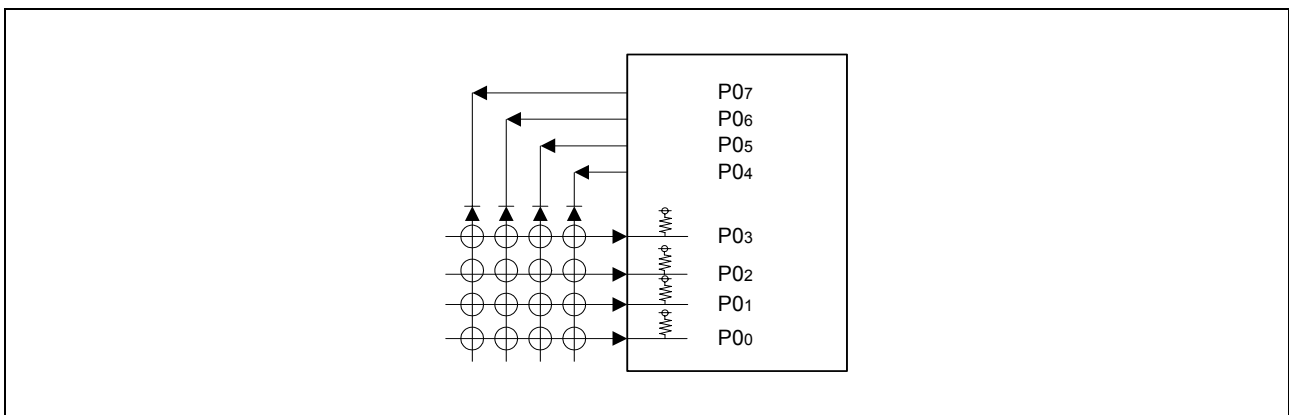


Figure 3.1 Connection Diagram

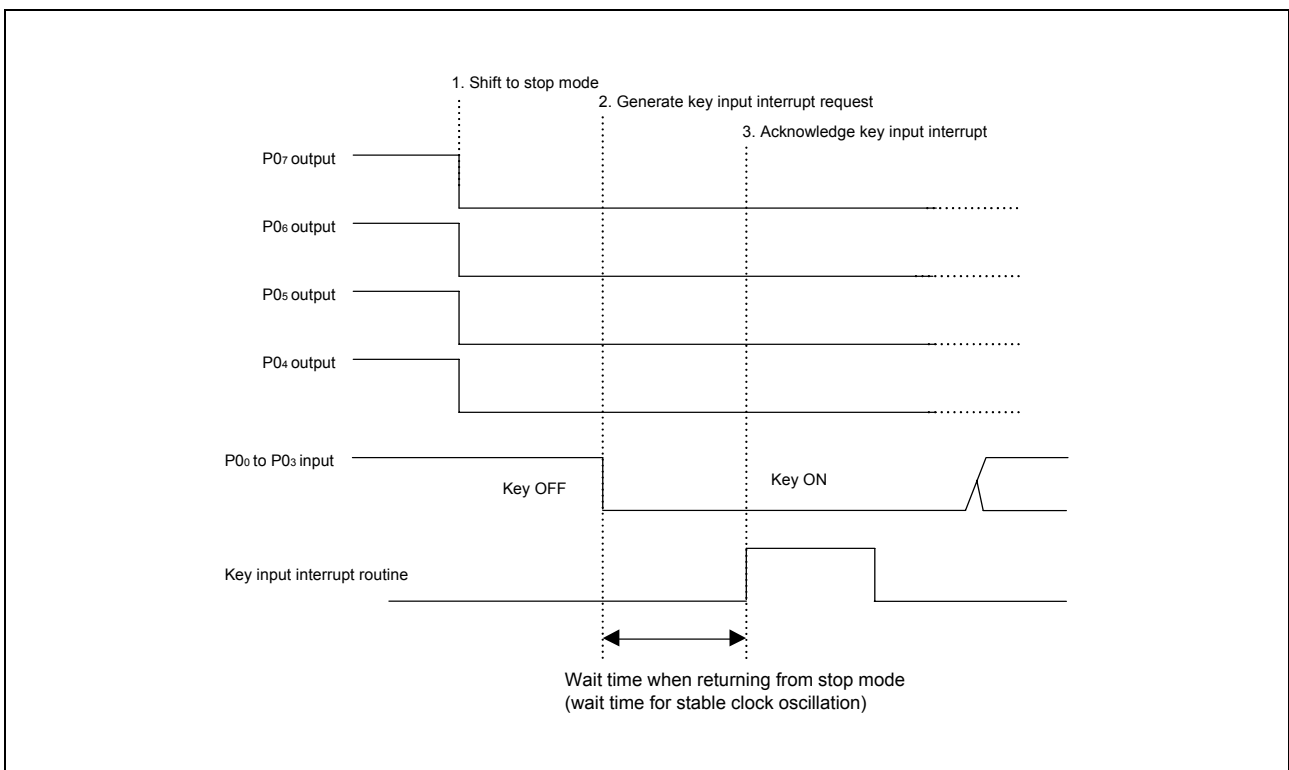


Figure 3.2 Example of Key Input Interrupt Operation Timing in Stop Mode

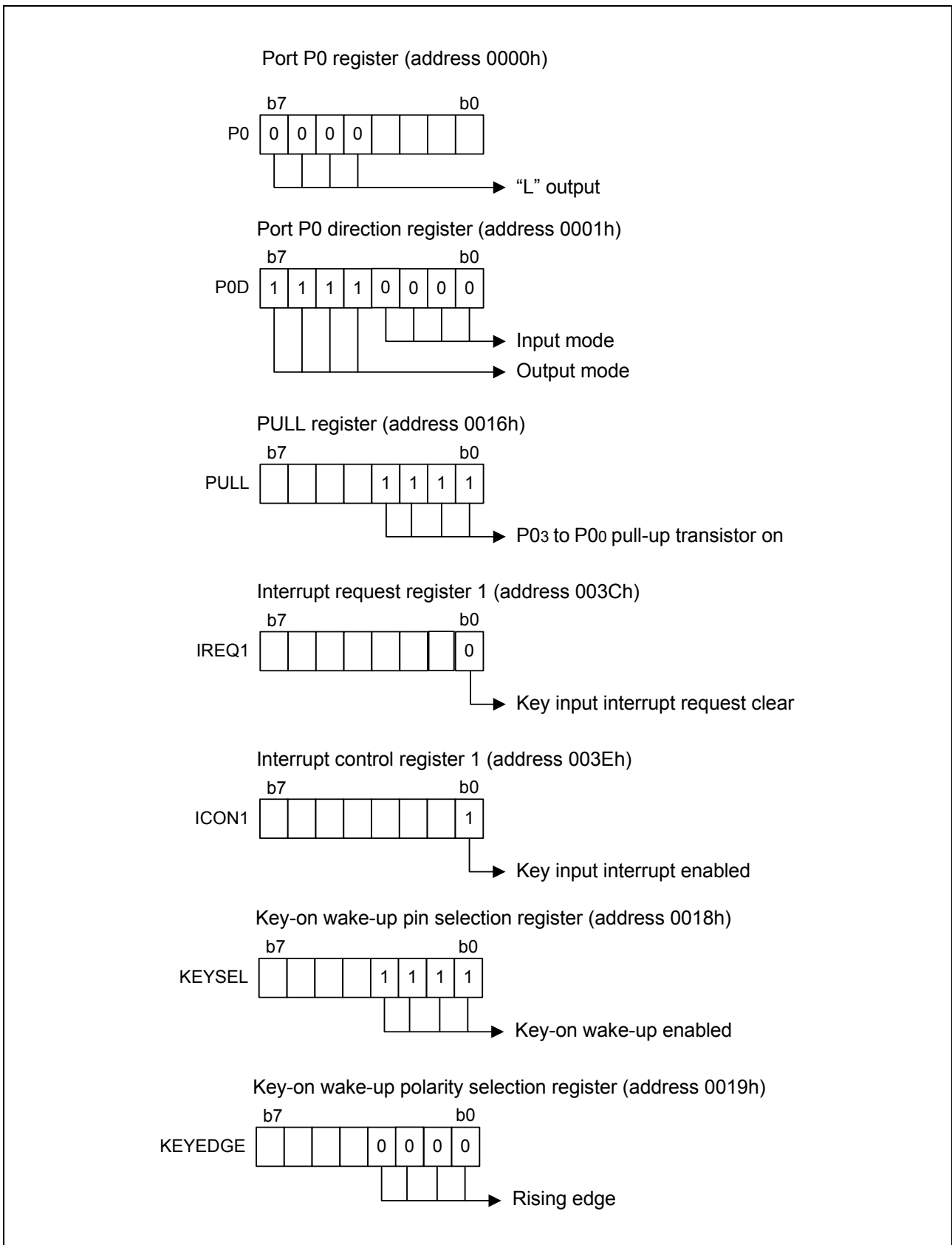


Figure 3.3 Relevant Register Settings

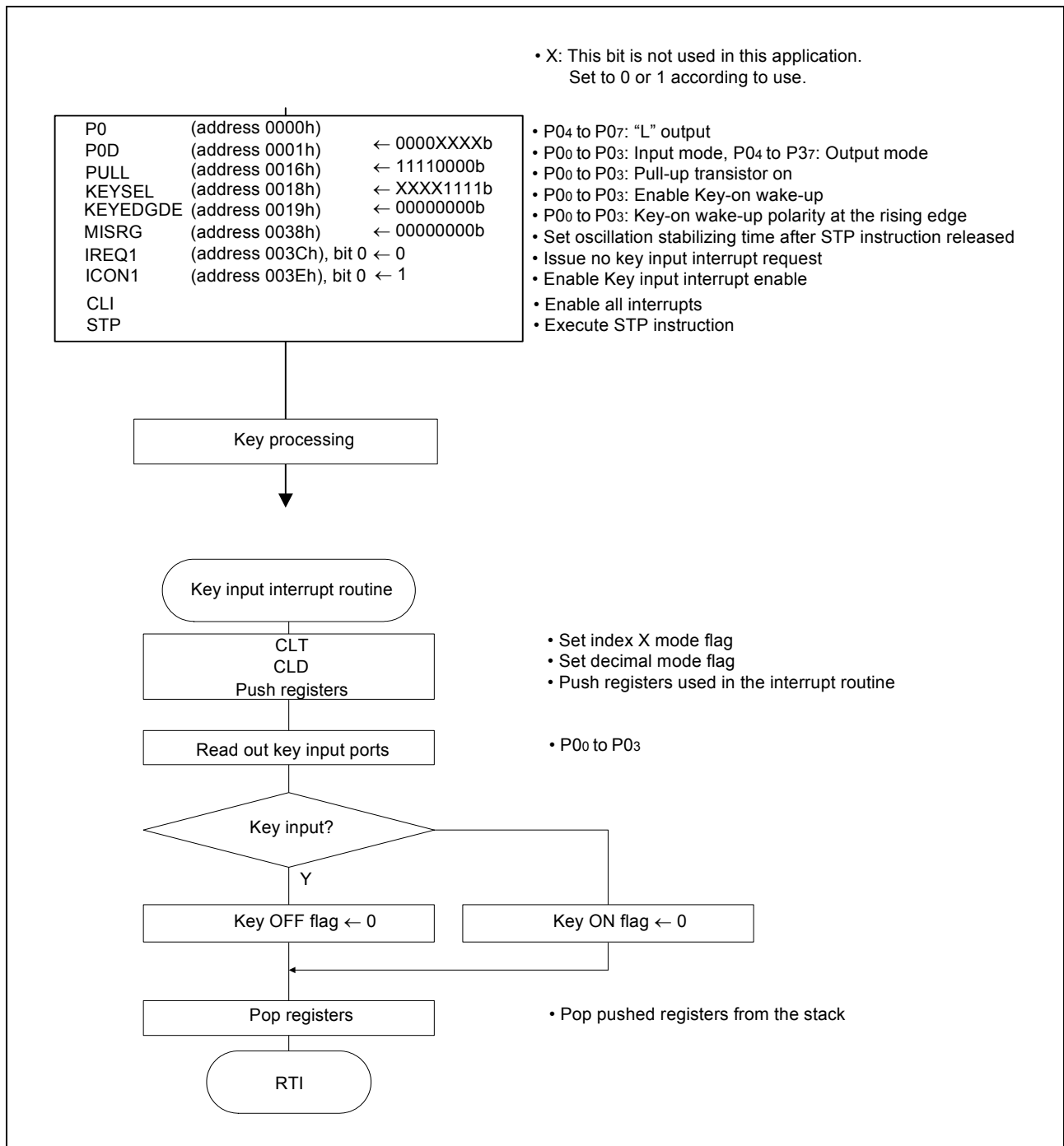


Figure 3.4 Control Procedure

#### **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 of the 7545 Group.

#### **5. Reference Document**

Datasheet

7545 Group Datasheet

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REVISION HISTORY	7545 Group Key Input Interrupt Application Note
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Rev.	Date	Description	
		Page	Summary
1.00	Aug 10, 2006	-	First Edition issued



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