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April 1st, 2010
Renesas Electronics Corporation

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3858 Group

AD Converter

1. Abstract

This document describes how to set up and use the AD converter on the 3858 Group device.

2. Introduction

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

MCU: 3858 Group

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 Analog Signal Reading in 8-bit A/D Mode

Outline: The analog input voltage from the sensor is converted to digital values.

Specifications:

- The analog input voltage from the sensor is converted to digital values.
- The P30/AN0 pin is used as an analog input pin.
- 8-bit A/D mode.

Figure 3.1 shows the Connection Diagram, Figure 3.2 shows the Relevant Register Settings, and Figure 3.3 shows the Control Procedure.

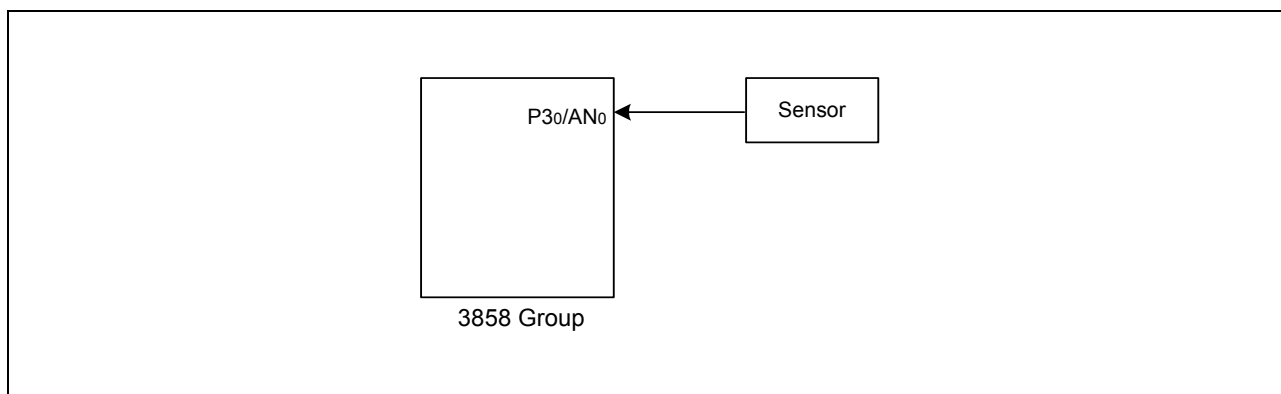


Figure 3.1 Connection Diagram

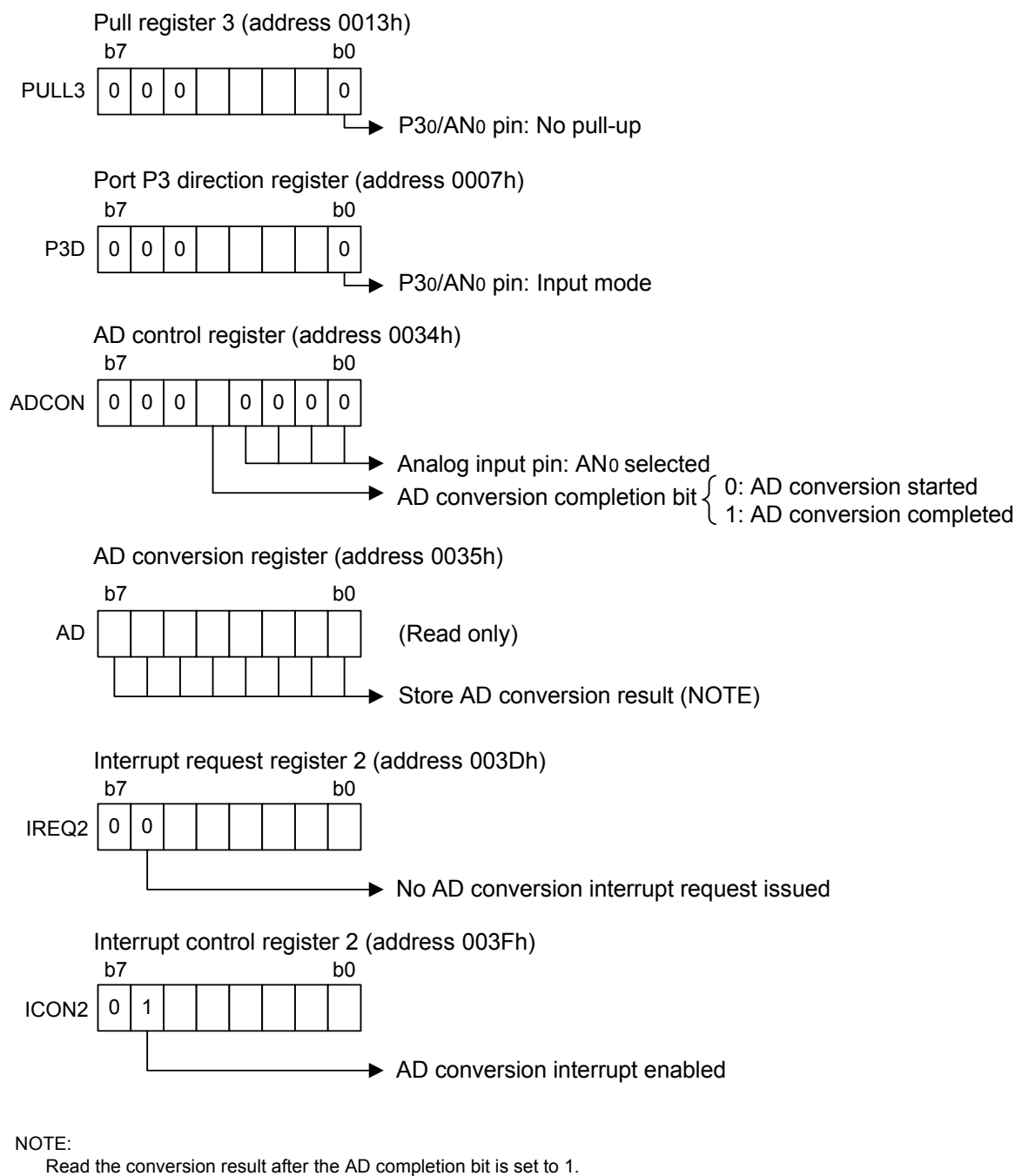


Figure 3.2 Relevant Register Settings

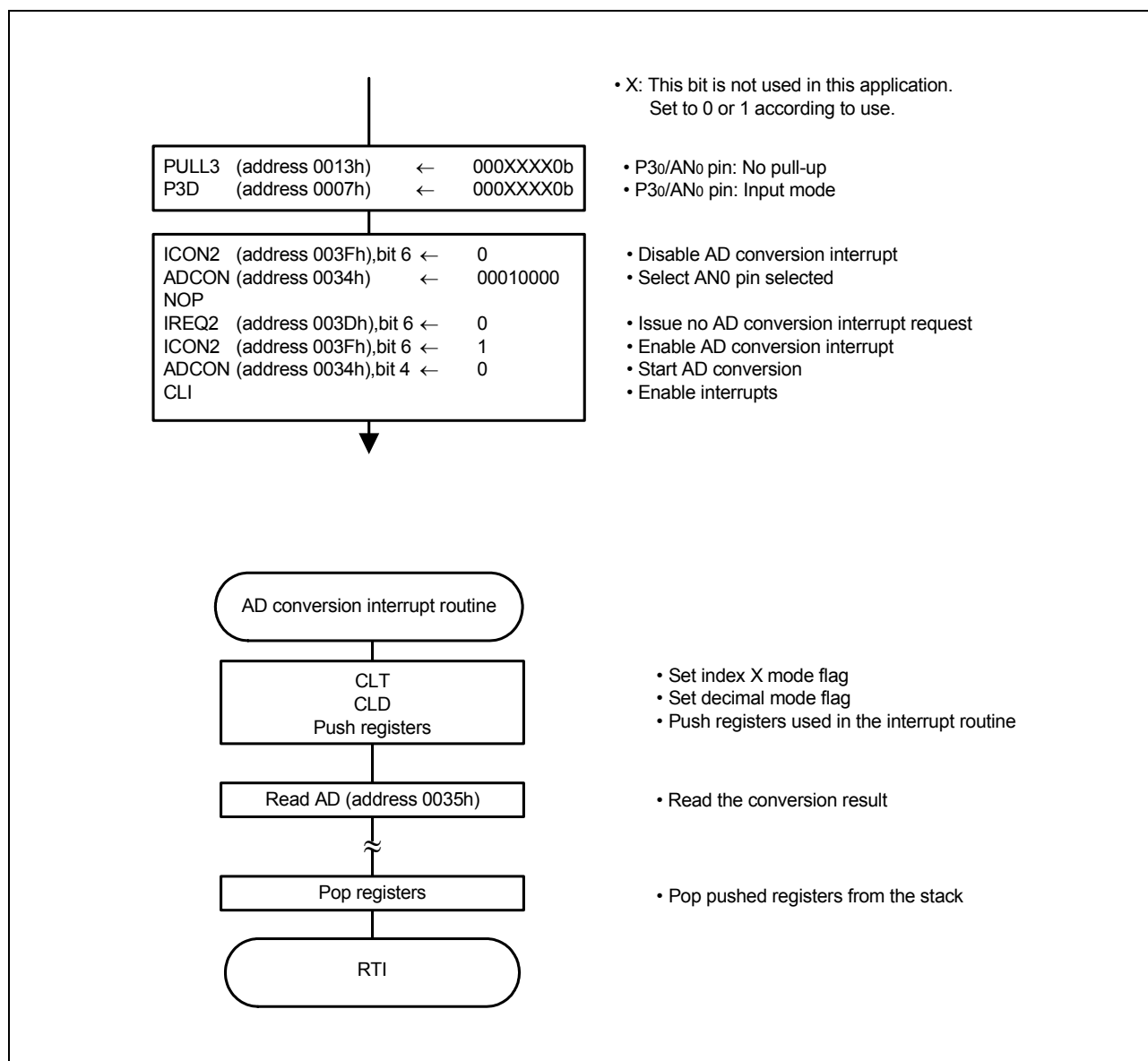


Figure 3.3 Control Procedure

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 of the 3858 Group.

5. Reference Document

Datasheet

3858 Group Datasheet

Download the latest version from the Renesas Technology website.

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REVISION HISTORY	3858 Group AD Converter Application Note
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Rev.	Date	Description	
		Page	Summary
1.00	Aug 10, 2006	–	First Edition issued

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