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3823 Group

AD Converter (Internal Trigger)

1. Abstract

The following article introduces and shows an example of how to use the AD Converter (Internal Trigger) on the 3823 group device.

2. Introduction

The explanation of this issue is applied to the following condition: Applicable MCU: 3823 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 operational conditions of the user system.



3. Contents

3.1 Analog Signal Read in 10-bit A/D Mode (Using internal trigger)

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

- •The analog input voltage from a sensor is converted to digital values.
- •The P60/AN0 pin is used as an analog input pin.

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

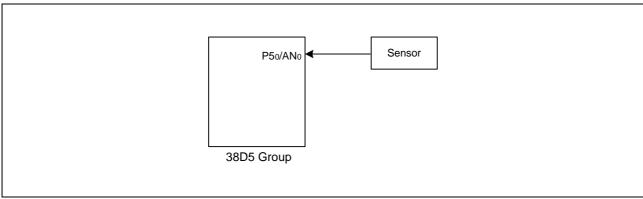


Figure 3.1 Connection Diagram



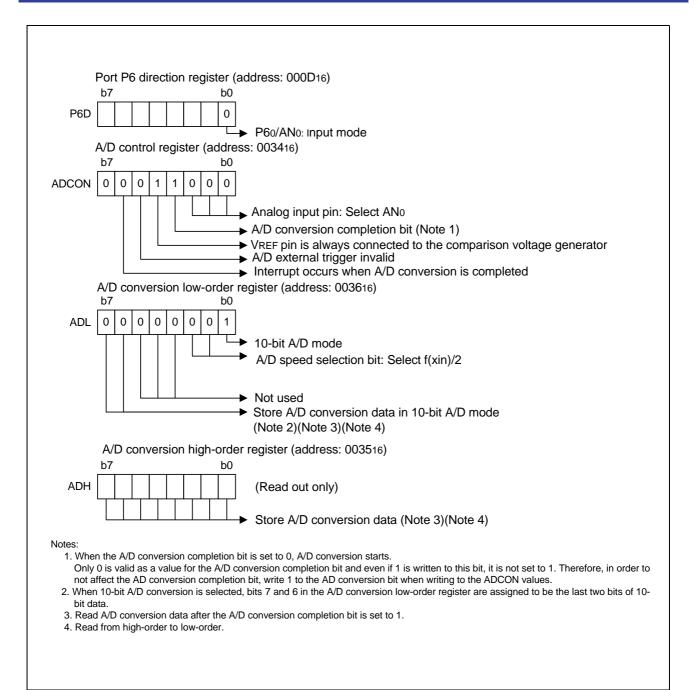


Figure 3.2 Relevant Register Settings



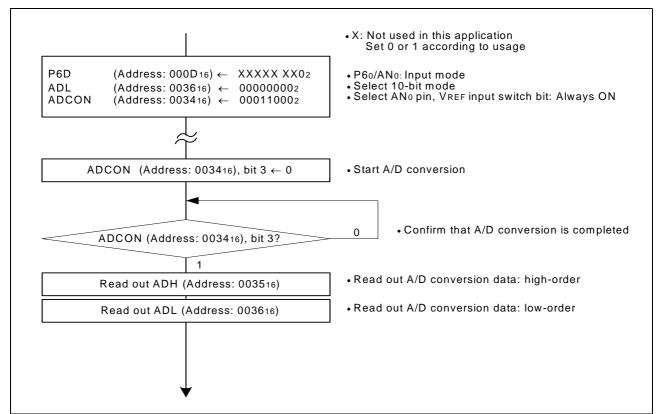


Figure 3.3 Control Procedure



4. Sample Programming Code

Download a sample program from the Renesas Technology website. To download, click "Application Notes" in the left side menu on the page of the 3823 Group.

5. Reference

Datasheet

3823 Group Data sheet

Download the latest version from the Renesas Technology website.

Technical News/Technical Update

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REVISION HISTORY	3823 Group AD Converter (Internal Trigger)
	7 to Control (

Rev.	Date		Description	
		Page	Summary	
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