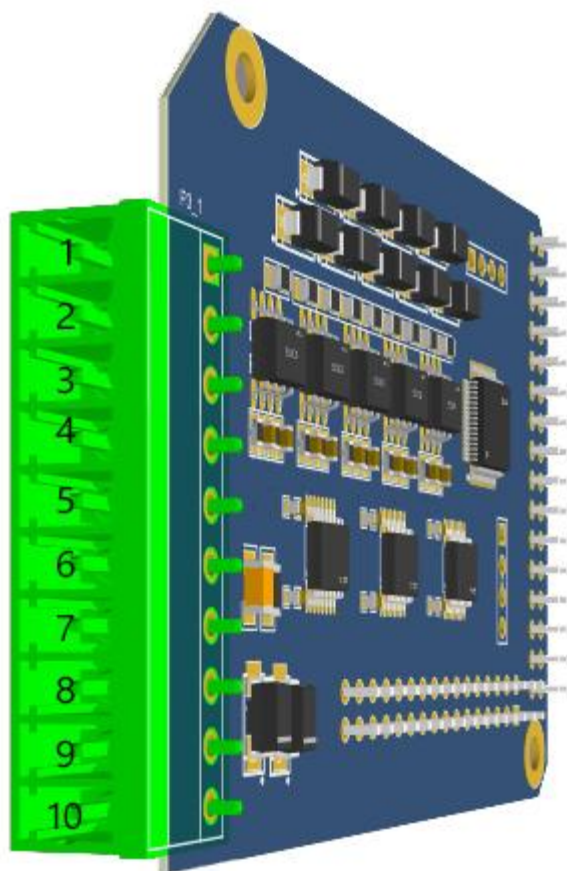


Y Series I/O Modules

4CH Analog Input Module Y34/Y36



Y34/Y36 User Manual

Version: V1.0

Date: 2024-11-18

Shenzhen Beilai Technology Co.,Ltd

Website: <https://www.bliiot.com>

Preface

Thanks for choosing BLIIoT Y series I/O modules. These operating instructions contain all the information you need for operation of Y series I/O modules.

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Disclaimer

This document is designed for assisting user to better understand the device. As the described device is under continuous improvement, this manual may be updated or revised from time to time without prior notice. Please follow the instructions in the manual. Any damages caused by wrong operation will be beyond warranty.

Revision History

Revision Date	Version	Description	Owner
2024/11/18	V1.0	Initial Release	HYQ

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1 Introduction

1.1 Overview

The Y34/Y36 voltage input module is one of the Y series I/O modules for IOy series and ARMxy series products.

This module features 4 input channels, namely AI1, AI2, AI3, and AI4, and is designed to receive voltage control signals ranging from 0-5V, 0-10V, -5V to 5V, or -10V to 10V from field devices, such as 4-wire voltage-type sensors.

Each channel's input signal is electrically isolated and then converted into a digital signal, which is transmitted with 16-bit resolution.

1.2 Technical Specifications

Name	Parameter	Description
Power Supply	Operating Voltage	Internal Voltage
	Power Consumption	0.12W
Analog Input	Channels	4 channels
	Input Mode	Differential Input
	Input Type	0-5V/0-10V (4-wire) -5V to 5V/-10V to 10V (4-wire)
	Resolution	16Bit
	Accuracy	±0.1 % FSR @ 25 °C
	Sampling Rate	300 ms
Certifications	EMC	IEC 61000-4-2 (ESD) Level 3
		IEC 61000-4-4 (EFT) Level 3
		IEC 61000-4-5 (Surge)Level 3

1.3 Model Selection

No.	Name	Model	Channel	Signal Type
1	4-Channel Analog Input Module	Y34	4	0 to 5V/0 to 10V
2	4-Channel Analog Input Module	Y36	4	-5V to 5V/-10V to 10V

2 Wiring

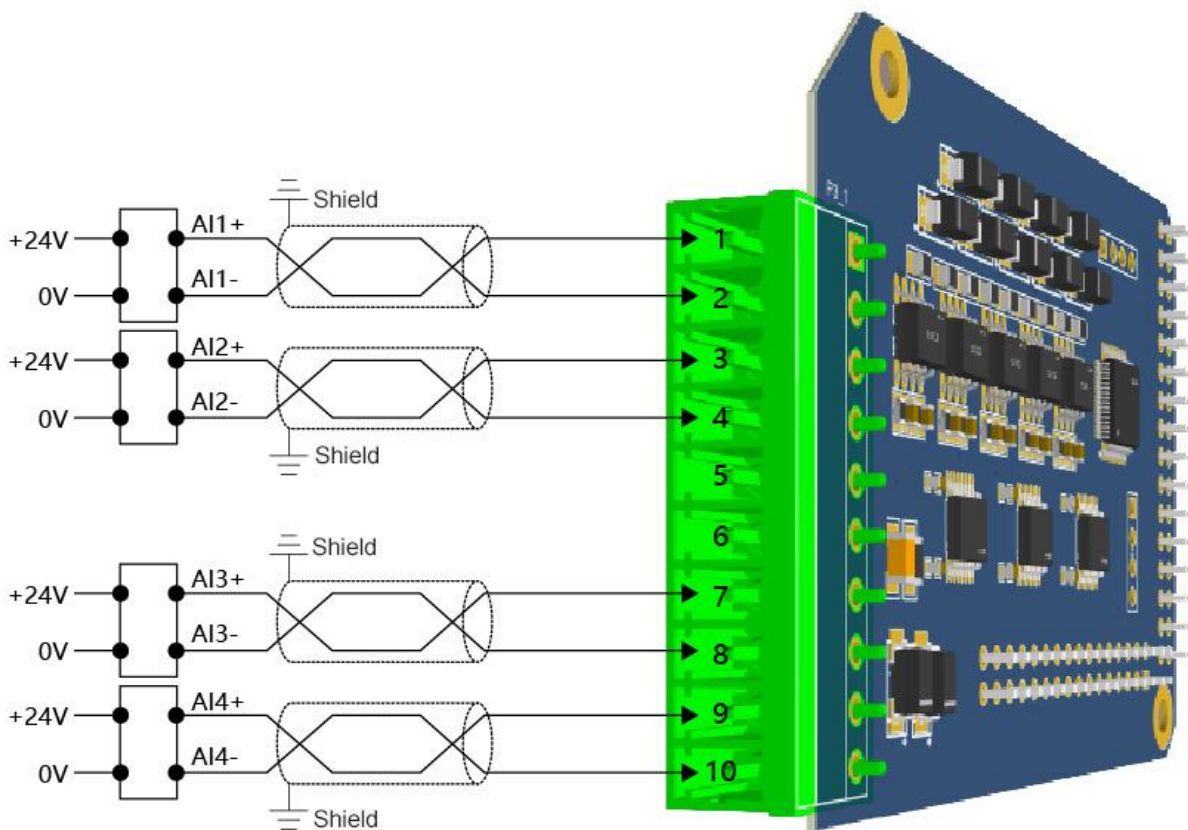
2.1 Terminal Definitions

Notice: Please refer to the product's label for the specific terminal numbering sequence.



Terminal NO.	Definition	Description	Terminal NO.	Definition	Description
1	AI1+	Analog input channel 1	3	AI2+	Analog input channel 2
2	AI1-		4	AI2-	
5	GND	AI pin	6	GND	AI pin
7	AI3+	Analog input channel 3	9	AI4+	Analog input channel 4
8	AI3-		10	AI4-	

2.2 Connection Example



3 Warranty Terms

- 1) This equipment will be repaired free of charge for any material or quality problems within one year from the date of purchase.
- 2) This one-year warranty does not cover any product failure caused by man-made damage, improper operation, etc

4 Technical Support

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