Y Series I/O Modules

8CH Digital Input Module Y11/Y12/Y13

BLIIOT®

MAKE IIOT EASIER

Y11/Y12/Y13 User Manual

Version: V1.0

Date: 2024-12-18

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
2024/12/18	V1.0	Initial Release	HYQ

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1 Introduction

1.1 Overview

The Y11/Y12/Y13 digital input modules are among the Y series I/O modules for IOy series and ARMxy series products.

These digital input modules feature 8 digital input channels, namely DI1 to DI8, which are used to collect digital output signals from field devices. They are widely used in industrial automation and control systems.

To enhance system reliability and stability, the digital input modules employ effective isolation technology. This technology helps prevent interference between different signals, thereby protecting the integrity of both the equipment and the data.

1.2 Technical Specifications

Name	Parameter	Description
Power Supply	Operating Voltage	Internal Voltage
	Power Consumption	0.4W
Digital Input	Channel	8 Channels
	Triggering Method	Y11: Low-level trigger Y12: High-level trigger Y13: Dry contact
	Logic level	Y11: Logic 1: +15 to +30VDC Logic 0: -3 to +5VDC Common terminal: Connect to power + Y12: Logic 1: +15 to +30VDC Logic 0: -3 to +5VDC Common terminal: 0VDC Y13: Logic 1: Shorted with common terminal Logic 0: Disconnected from common terminal
	Isolation protection	2KVrms
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	8-channel digital input module	Y11	8	Low-level trigger
2	8-channel digital input module	Y12	8	High-level trigger
3	8-channel digital input module	Y13	8	Dry contact

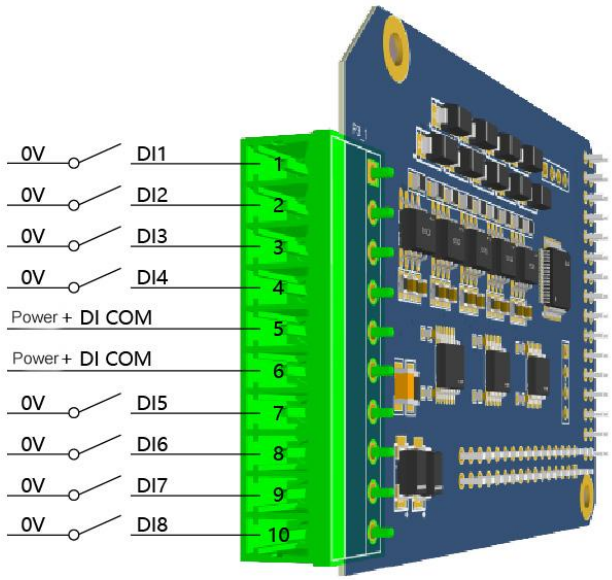
2 Wiring

2.1 Terminal Definitions

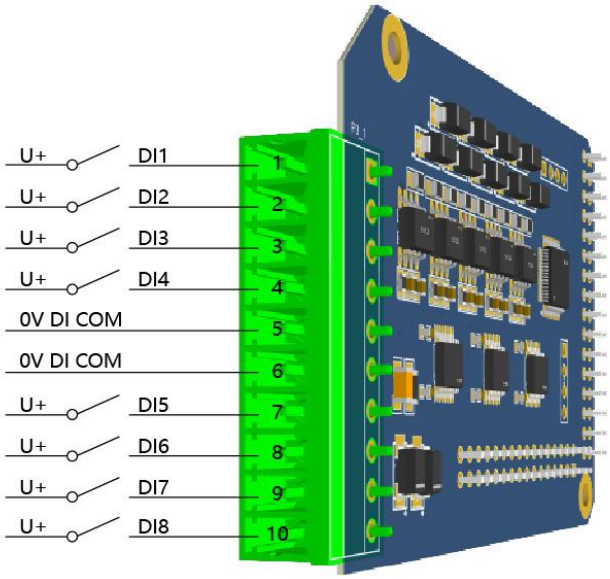
Notice: Please refer to the product's label for the specific terminal numbering sequence.

Name	Definition	Description	Name	Definition	Description
1	DI1	First digital input	6	DICOM	DI Common ground
2	DI2	Second digital input	7	DI5	Fifth digital input
3	DI3	Third digital input	8	DI6	Sixth digital input
4	DI4	Fourth digital input	9	DI7	Seventh digital input
5	DICOM	DI Common ground	10	DI8	Eighth digital input

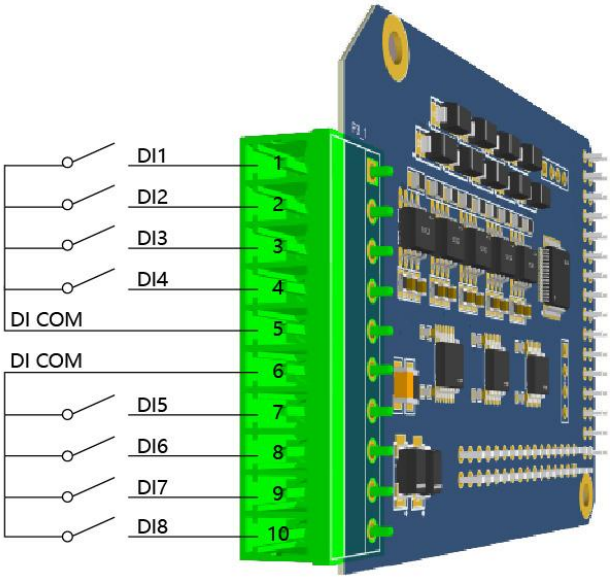
2.2 Connection Example



Y11



Y12



Y13

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

Shenzhen Beilai Technology Co., Ltd

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