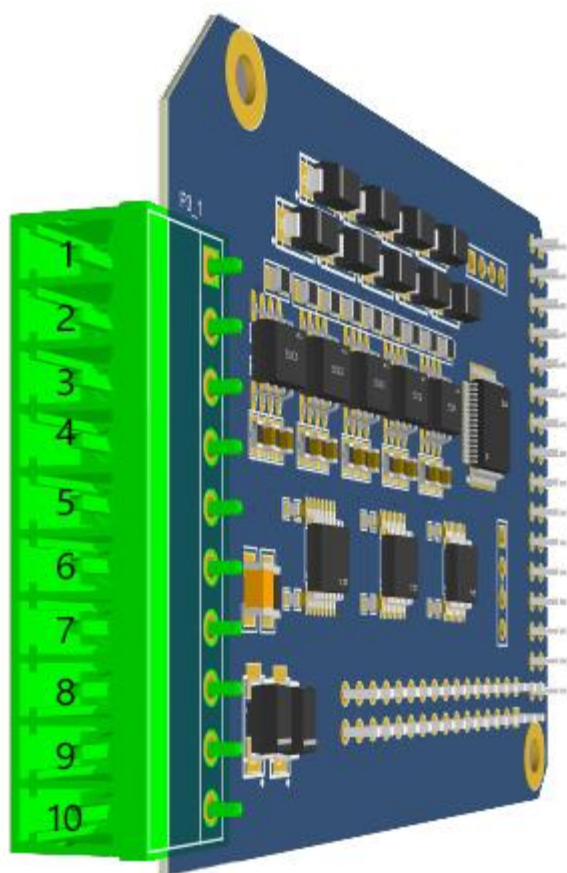


# Y Series I/O Modules

## 8CH Digital Output Module Y21/Y22



## Y21/Y22 User Manual

Version: V1.0

Date: 2024-12-12

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
2024/12/12	V1.0	Initial Release	HYQ

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# 1 Introduction

## 1.1 Overview

The Y21/Y22 digital output modules are among the Y series I/O modules for IOy series and ARMxy series products.

The digital output module has 8 digital output channels, namely DO1 to DO8, which are used to control automation equipment. The 8 channels are single-ended outputs, sharing 2 common ground potentials, and feature digital isolation.

## 1.2 Technical Specifications

Name	Parameter	Description
Power Supply	Operating Voltage	Internal Voltage
	Power Consumption	1.5W
Digital Output	Channels	8 Channels
	Output Mode	Single-ended output
	Output Type	Y21: High-level output is effective, with an output of 24VDC. Y22: Low-level output is effective, with an output of 0VDC.
	Maximum output current per channel	200mA
	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

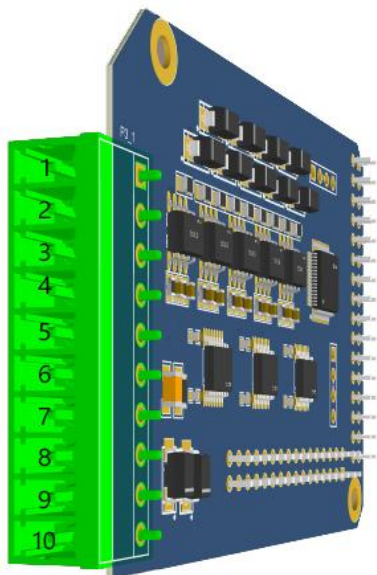
## 1.3 Model Selection

No.	Name	Model	Channel	Signal Type
1	8-channel digital output module	Y21	8	PNP (High-level Output)
2	8-channel digital output module	Y22	8	NPN (Low-level Output)

## 2 Wiring

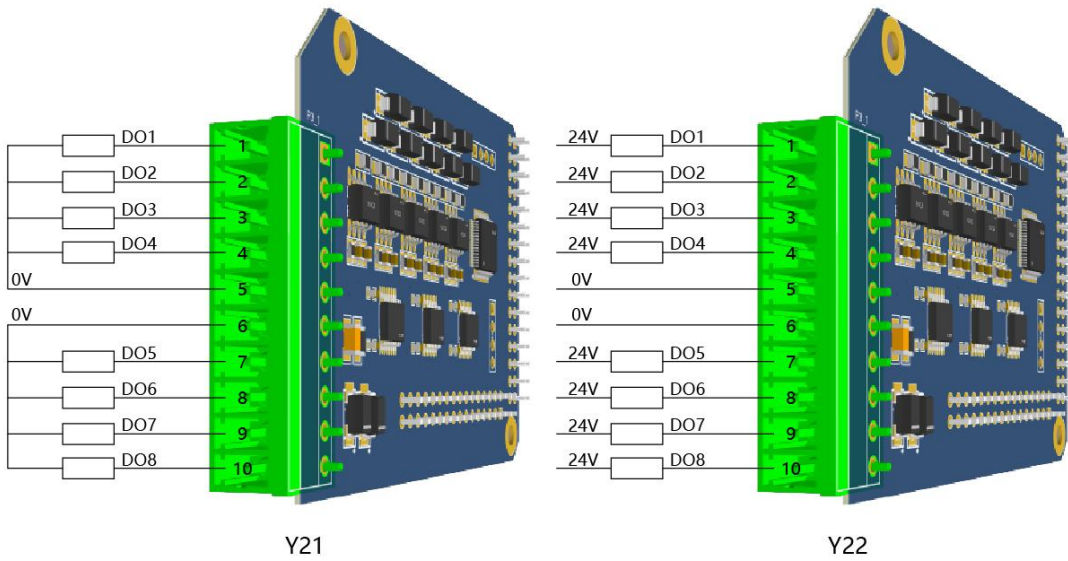
### 2.1 Terminal Definitions

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



Name	Definition	Description	Name	Definition	Description
1	DO1	First digital output	6	GND	Common ground
2	DO2	Second digital output	7	DO5	Fifth digital output
3	DO3	Third digital output	8	DO6	Sixth digital output
4	DO4	Fourth digital output	9	DO7	Seventh digital output
5	GND	Common ground	10	DO8	Eighth digital output

## 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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