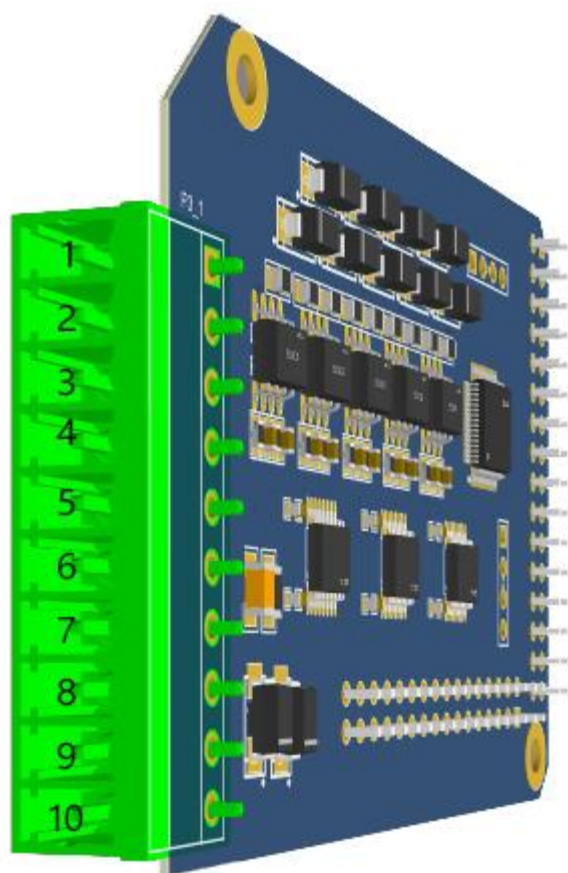


# Y Series I/O Modules

Pulse Output and Counting Module Y95/Y96



## Y95/Y96 User Manual

Version: V1.0

Date: 2024-12-20

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
2024/12/20	V1.0	Initial Release	HYQ

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# 1 Introduction

## 1.1 Overview

The Y95/Y96 pulse output and counting module is one of the Y series I/O modules for IOy series and ARMxy series products.

The pulse output and counting module features 4 pulse outputs and 4 counting channels, namely PWM1...PWM4 and C1...C4. The pulse output supports a maximum frequency of 20kHz, while the pulse counting can handle up to 50kHz. It is widely used in industrial automation and control systems. To enhance the system's reliability and stability, the pulse output and counting module employs effective isolation technology, which prevents 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	0.48W
Pulse Output	Channels	4CH
	Output Delay	< 1ms
	Duty Cycle	0~100 duty cycle range allows for customizable settings.
	Maximum switching frequency	20KHz
	Isolation Protection	2KVrms
Pulse Counting	Channels	1 high-speed counting channel + 3 low-speed counting channels
	Maximum switching frequency	High-speed: up to 50kHz, Low-speed: up to 5kHz
	Counting Range	32-bit unsigned
	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	Pulse Output and Counting Module	Y95	4	NPN(Low level effective)
2	Pulse Output and Counting Module	Y96	4	PNP(High level effective)

## 2 Wiring

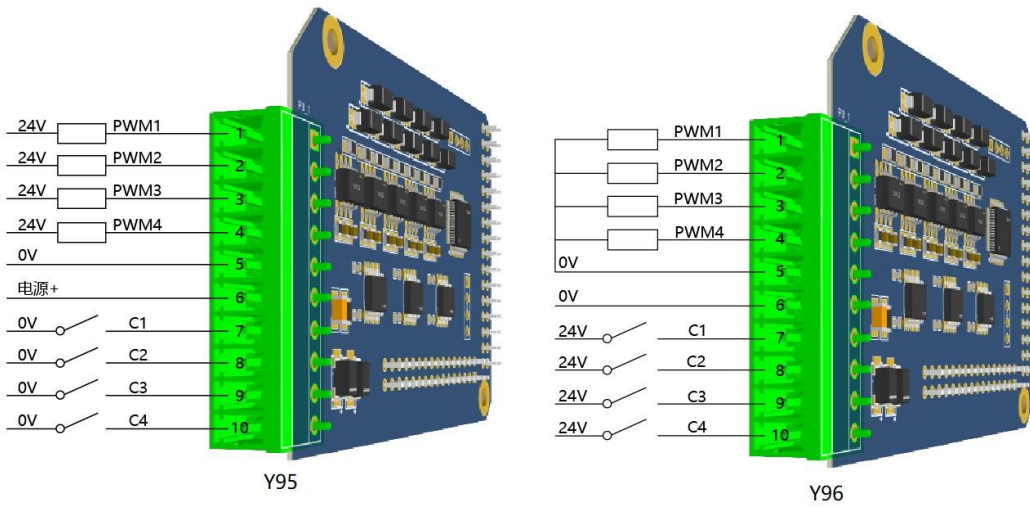
### 2.1 Terminal Definitions

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



Terminal NO.	Definition	Description	Terminal NO.	Definition	Description
1	PWM1	First PWM Output	6	DICOM	DI Common Terminal
2	PWM2	Second PWM Output	7	C1	First Pulse Counting
3	PWM3	Third PWM Output	8	C2	Second Pulse Counting
4	PWM4	Fourth PWM Output	9	C3	Third Pulse Counting
5	DOCOM	DO Common Terminal	10	C4	Fourth Pulse Counting

## 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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