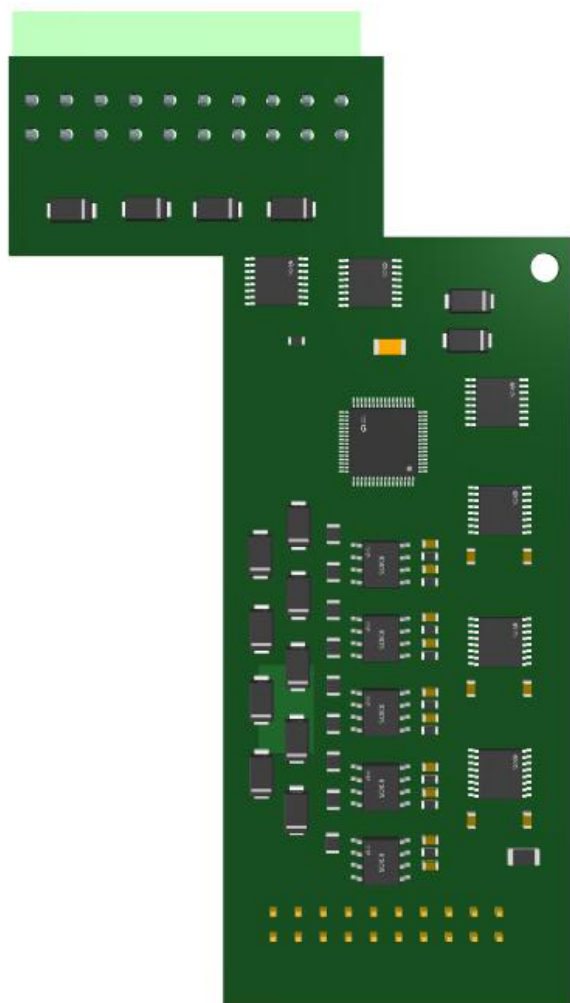


X Series I/O Modules

4DO Module X15



X15 User Manual

Version: V1.0

Date: 2025-4-9

Shenzhen Beilai Technology Co.,Ltd

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

Preface

Thanks for choosing BLIIOT X series I/O modules. These operating instructions contain all the information you need for operation of X 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
2025/4/9	V1.0	Initial Release	PH

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1 Introduction

1.1 Overview

X15 is an industrial-grade expansion module specially designed for the ARMxy series ARM embedded computers. The module features electrical isolation, overvoltage protection, ESD protection, fault protection, and overcurrent protection circuit designs, ensuring stability and reliability in complex industrial environments.

X15 provides 4 digital output (DO) channels, greatly expanding the I/O capabilities of the ARMxy series ARM embedded computers.

1.2 Technical Specifications

Name	Parameter	Description
Power Supply	Operating Power	Internal Voltage
	Power Consumption	1.5W
Digital Output	Channel	4 channels
	Output Mode	Single-ended output
	Output Type	Active low output, output 0VDC
	Maximum Output Current per Channel	100mA
	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

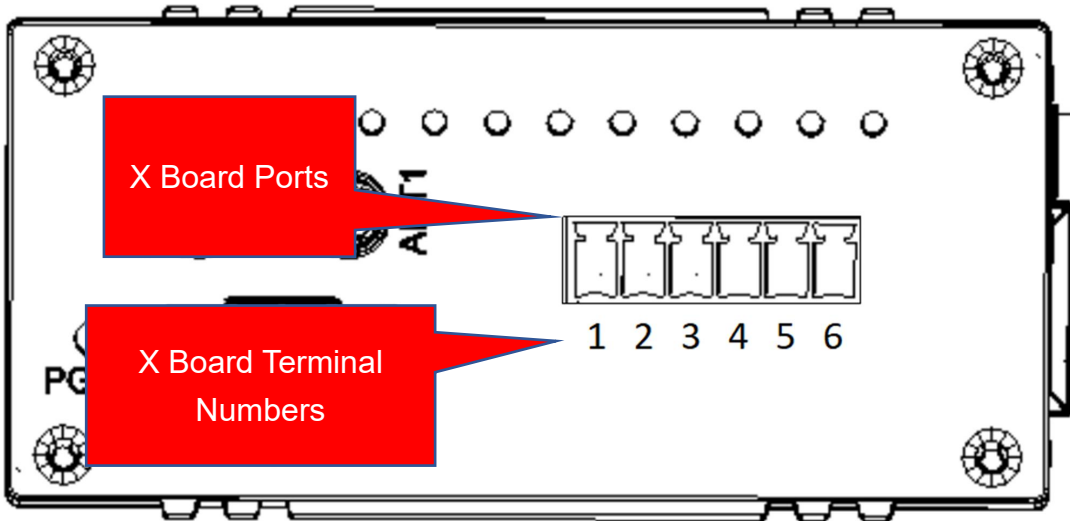
1.3 Model Selection

No.	Name	Model	Signal Type
1	4DO Module	X15	NPN (Active Low Output)

2 Wiring

2.1 Terminal Definitions

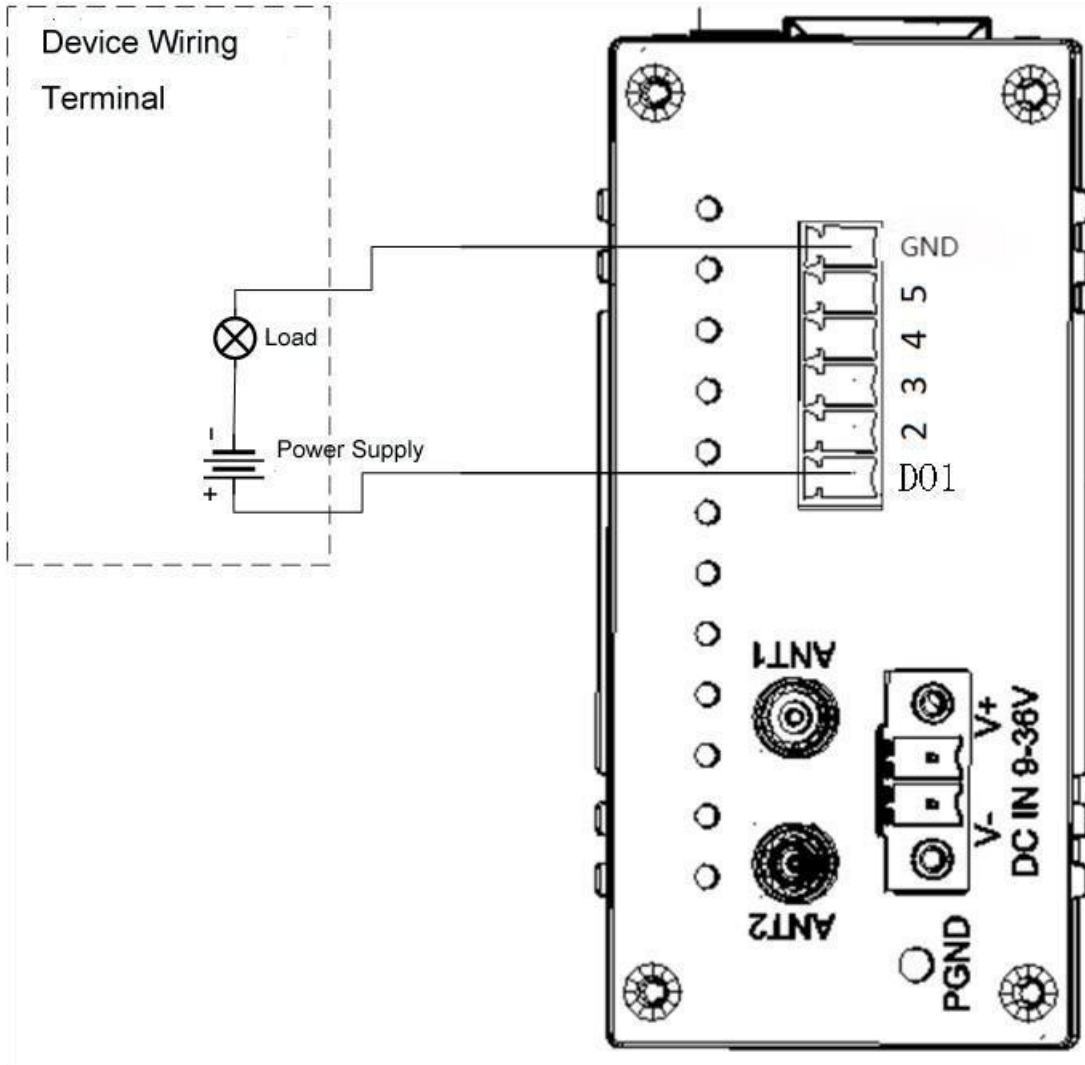
Notice: Please refer to the product's label for the specific terminal numbering sequence.



Terminal NO.	Definition	Description	Terminal NO.	Definition	Description
1	DO1	Digital Output 1	4	DO3	Digital Output 3
2	DO2	Digital Output 2	5	DO4	Digital Output 4
3	GND	Ground Terminal	6	GND	Ground Terminal

2.2 Connection Example

2.2.1 DO Connection



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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