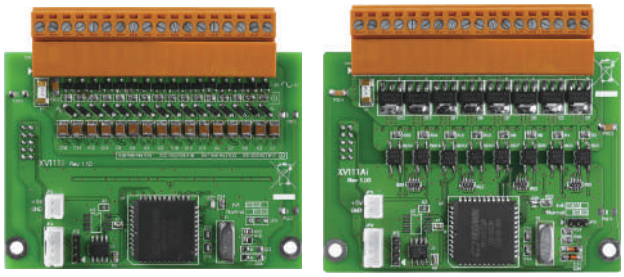


XV111/XV111A

16-ch Isolated DO Expansion Board

Features

- XV111
  - Sink-type Digital Output
- XV111A
  - Source-type Digital Output
- Configurable Power-on Value Settings
- Overvoltage Protection for Digital Output
- Short-circuit Protection for Digital Output

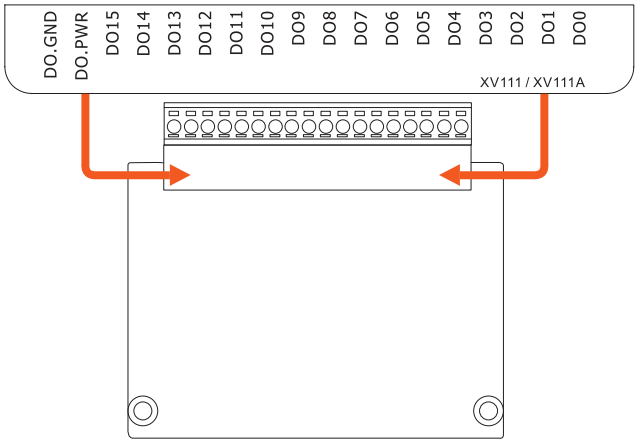
Introduction

The XV111 provides 16 channels for digital output, each of which features photocouple isolation. The XV111 supports sink-type output with short circuit protection and provides options for configuring power-on digital output values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided. The XV111A has the same specifications as the XV111, except that the output types are reversed.

Specifications

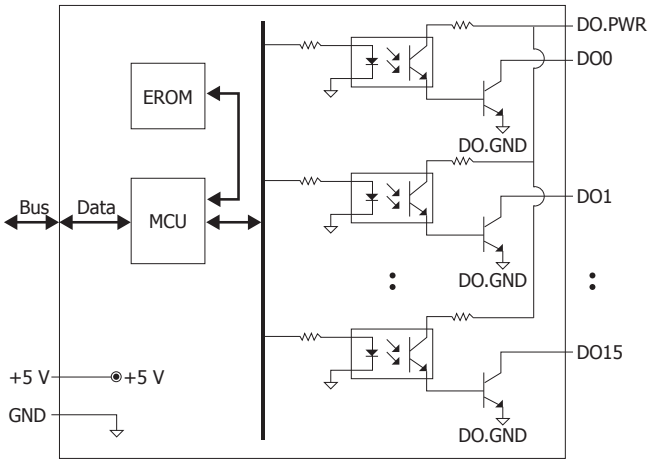
Isolation	**XV111**	**XV111A**
Intra-module Isolation	3750 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact For Each Terminal	
	±8 kV Air For Random Terminal	
Digital Output		
Channels	16	
Type	Sink	Source
Load Voltage	3.5 ~ 50 VDC	10 ~40 VDC
Max. Load Current	600 mA/channel	
Overvoltage Protection	60 VDC	47 VDC
Overload Protection	Yes	
Short-Circuit Protection	Yes	
Power on Value	Yes, Programmable	
COM Ports		
Ports	1 x RS-232	
Baud Rate	115200 bps	
Data Format	N, 8, 1	
Protocol	Modbus/RTU	
Power		
Consumption	0.2 W Max.	0.8 W Max.
Powered from Terminal Block	5 VDC	
Mechanical		
Dimensions (mm)	59 mm x 82 mm x 13 mm (W x L x H)	
Environmental		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-30 ~ +80 °C	
Humidity	10 ~ 90% RH, Non-condensing	

Pin Assignments

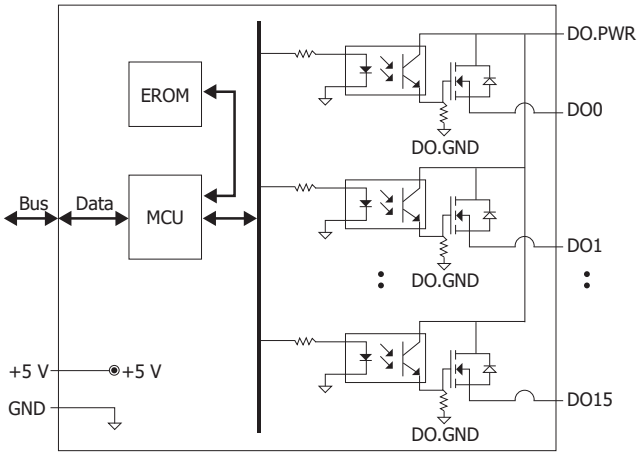


Internal I/O Structure

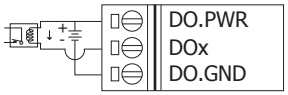
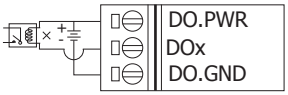
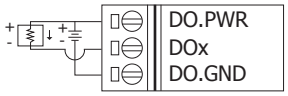
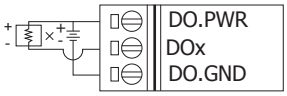
XV111

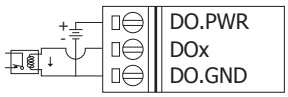
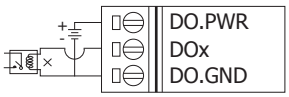
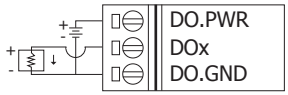
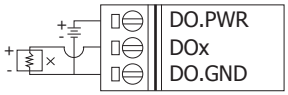


XV111A



Wire Connections

XV111		
Output Type	**Readback as 1**	**Readback as 0**
Drive Relay		
Resistance Load		

XV111A		
Output Type	**Readback as 1**	**Readback as 0**
Drive Relay		
Resistance Load		

Ordering Information

XV111 CR	16-ch Isolated DO (Sink, NPN, 3.5 ~ 50 VDC) Expansion Board (RoHS)
XV111A CR	16-ch Isolated DO (Source, PNP, 10 ~ 40 VDC) Expansion Board (RoHS)