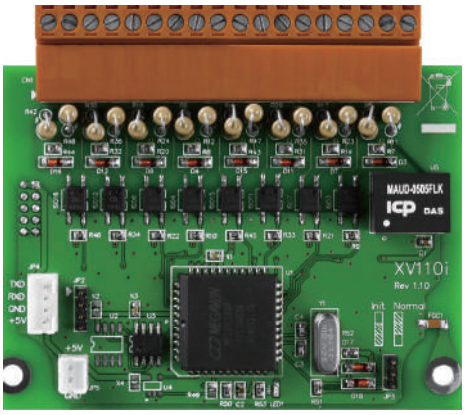


XV110

16-ch Isolated DI (3.5 ~ 50VDC) Expansion Board

Features

- 16-channel Digital Inputs
- Dry and Wet Contact, Selectable via Wire Connections
- Long Effective Distance up to 500 meters for Dry Contact
- All Channels can be used as 32-bit Counters
- 70 VDC Overvoltage Protection for Digital Input

Introduction

The XV110 provides 16 channels for digital input, catering for both dry and wet contact, with an effective distance for dry contact of up to 500 meters. All channels feature photocouple isolation, and can be used as 32-bit counters. In addition, either sink- or source-type digital input can be selected via wire connections. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance noise immunity capabilities in industrial environments.

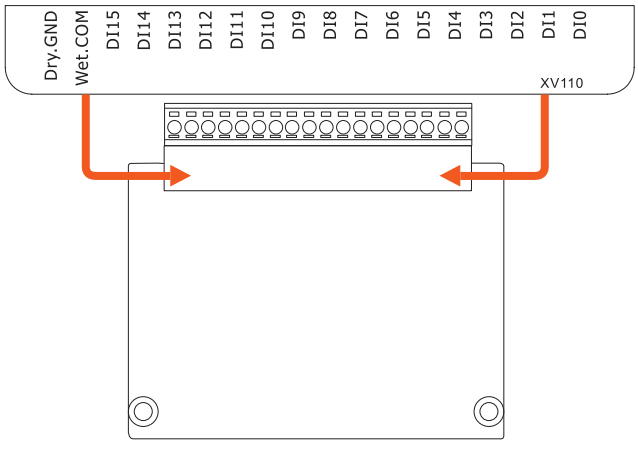
Specifications

Isolation		
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 Input/Counter		
Channels		16
Type	Dry Contact	Source
	Wet Contact	Sink/Source
Wet Contact	ON Voltage Level	+3.5 ~ 50 VDC
	OFF Voltage Level	+1 VDC Max.
Dry Contact	ON Voltage Level	Close to GND
	OFF Voltage Level	Open
	Effective Distance	500 m Max.
Max. Counts		32-bit (0 ~ 4, 294, 967, 285)
Frequency		50 Hz
Min. Pulse Width		10 ms
Input Impedance		10 KΩ, 0.5 W
Overvoltage Protection		70 VDC
COM Ports		
Ports		1 x RS-232
Baud Rate		115200 bps
Data Format		N, 8, 1
Protocol		Modbus/RTU

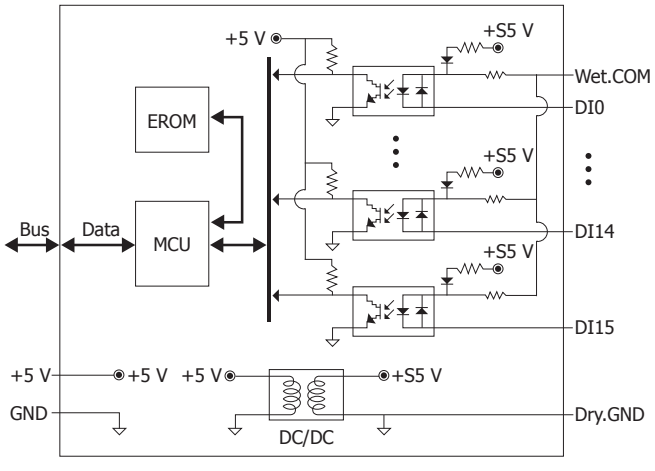
Power	
Consumption	0.2 W Max.
Powered from Terminal Block	5 VDC
Mechanical	
Dimensions (mm)	59 mm x 82 mm x 13 mm (W x L x H)
Environmental	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

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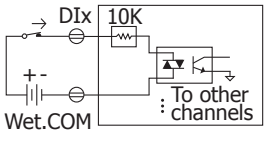
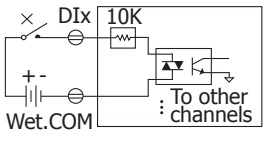
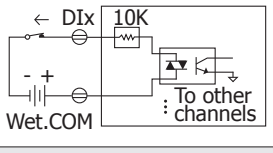
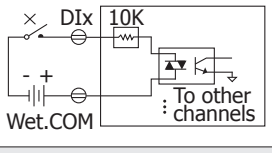
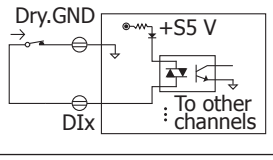
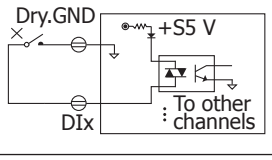
Pin Assignments



Internal I/O Structure



Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Wet Contact (Sink)	+3.5 ~ +50 VDC	+1 VDC Max.
		
Wet Contact (Source)	+3.5 ~ +50 VDC	+1 VDC Max.
		
Dry Contact	Closed to Dry.GND	Open
		

Ordering Information

XV110 CR	16-ch Isolated DI (Dry/Wet, 3.5 ~ 50VDC) Expansion Board (RoHS)

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