

Introduction

The XV386 is a multifunction expansion board that includes four analog input channels, four digital input channels, and four Form A relay output channels.

Channel 0 provides a programmable input range of $\pm 30V$ and $\pm 15V$ (exclusive high-range interface), while the other analog input channels offer a programmable range of $\pm 1V$, $\pm 2.5V$, $\pm 5V$, $\pm 10V$, ± 20 mA, 0 to ± 20 mA, or ± 4 to ± 20 mA. Voltage and current inputs are jumper-selectable.

The digital input channels can also function as 32-bit counters. Additionally, the XV386 provides options for configuring power-on values for the digital outputs. To enhance noise immunity in industrial environments, the board features 4 kV ESD protection and 2,000 V_{DC} intra-module isolation.

Applications

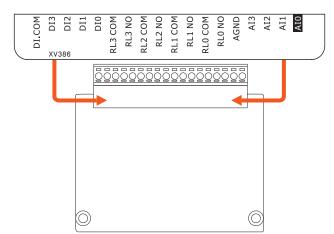
- Building automation
- Machine automation
- Remote Maintenance
- Factory Automation
- Remote Diagnosis
- Testing equipment

Specifications

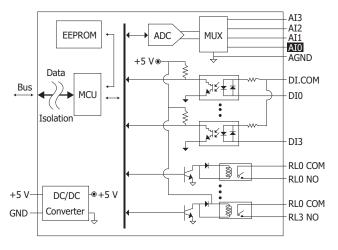
EMS Protection		
ESD (IEC 61000-4-2)		±4 kV Contact For Each Terminal
		±8 kV Air For Random Terminal
Analog In		
Channels		4
Туре	ch0	±15 V, ±30 V
	ch1 ~ ch3	± 1 V, ± 2.5 V, ± 5 V, ± 10 V, ± 20 mA, 0 ~ 20 mA, 4 ~ 20 mA (Jumper Selectable)
Resolution		16-bit
Accuracy	Normal Mode	±0.1 %
	Fast Mode	±0.5 %
Sampling	Normal Mode	10 Hz
Rate	Fast Mode	200 Hz
Input Impedance		20 ΜΩ
Overvoltage Protection		120 VDC
Individual Channel Configuration		Yes
Open Wire Detection	ch1 ~ ch3	Yes
Digital Input/Counter		
Channels		4
Туре		Wet Contact, Sink/Source
Wet Contact	ON Voltage Level	+3.5 ~ +50 VDc
	OFF Voltage Level	+1 VDC 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

Isolation				
Intra-module Isolation		2000 VDC		
Relay Output				
Channels		4		
Туре		Power Relay (Form A)		
Form A Relay	Contact Material	Silver Cadmium Alloy		
	Contact Rating	6 A @ 35 V _{DC}		
		6 A @ 240 VAC		
	Operate Time	5 ms (typical)		
	Release Time	1 ms (typical)		
	Electrical Endur- ance	1 x 105 ops		
	Mechanical Endur- ance	30 x 106 ops.		
Power-o	n Value	Yes		
COM Ports				
Ports		1 x RS-232		
Baud Rate		115200 bps		
Data Format		N, 8, 1		
Protocol		Modbus/RTU		
Power				
Consumption		1.6 W Max.		
Powered from Terminal Block		5 VDC		
Mechanical				
Dimensions (mm)		59 mm x 82 mm x 13 mm (W x L x H)		
Enviror	nmental			
Operating Temperature		-25 ~ +75 °C		
Storage Temperature		-30 ~ +80 °C		
Humidity		10 ~ 90% RH, Non-condensing		

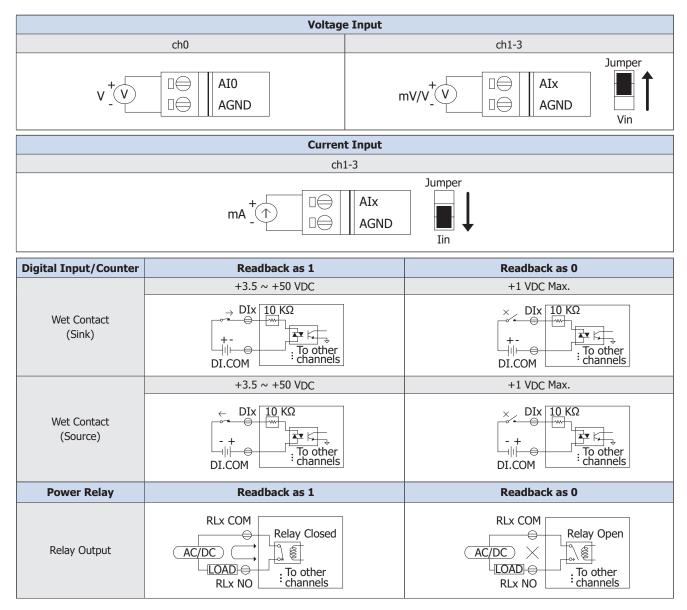
🖿 Pin Assignments



Internal I/O Structure



Wire Connections



Ordering Information