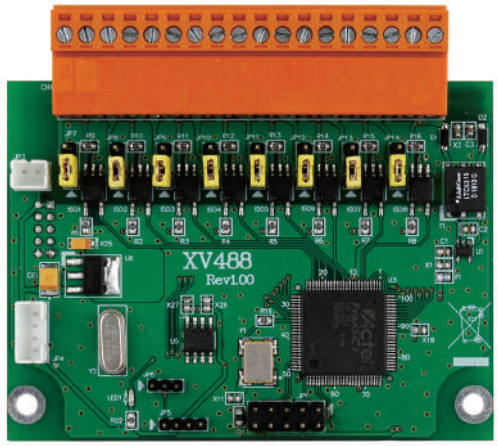


XV488

8-ch Isolated PWM Output Expansion Board

Features

- 8-channel PWM Output
- Burst Mode and Continuous Mode for PWM Output
- Software Trigger Mode for PWM Output
- Individual and Synchronous PWM Output
- 4 kV ESD and EFT Protection
- Dual Watchdog
- Wide Operating Temperature Range: -25 to +75°C

Introduction

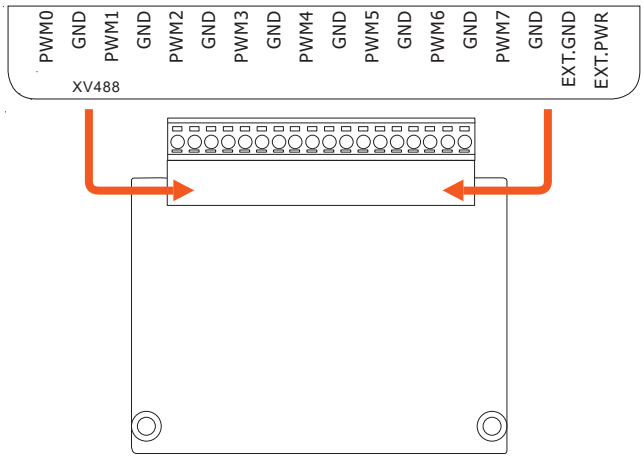
The XV488 provides 8-channel PWM (Pulse Width Modulation) Output, and can be used to develop powerful and cost-effective analog control systems. PWM is a powerful technique for controlling analog circuits that uses the Digital Output to generate a waveform with a variable duty cycle and frequency which can then be used to control an analog circuit in applications such as controlling the position or speed of motors, the brightness of lamps, or the speed of fans, etc. Either burst mode or continuous mode can be used for the PWM output depending on the application. In addition, all Digital The XV488 supports both the Modbus RTU and the DCON protocols, which can be configured via software. The XV488 allows the load voltage to be increased from +3.5 to +50 V for the 8-channels PWM (Pulse Width Modulation) output.

Specifications

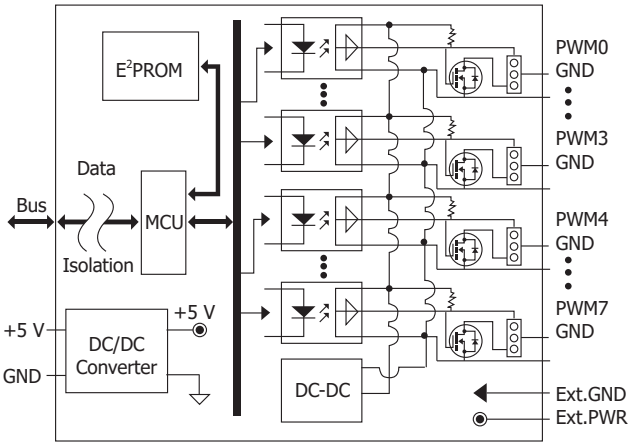
Isolation			
Intra-module Isolation		2000 VDC	
EMS Protection			
ESD (IEC 61000-4-2)		±4 kV Contact For Each Terminal	
		±8 kV Air For Random Terminal	
PWM		**Internal Power**	**External Power**
Channels		8	
Type		PWM	
Sink/Source (NPN/PNP)		Sink	
Load Voltage		+5 VDC	+3.5 ~ +50 VDC
Output Max. Load Current	Sink	+5 VDC @ 10 mA/ Channel	+50 VDC @ 200 mA/ Channel
	Source	+5 VDC @ 1 mA/ Channel	-
PWM	Frequency	1 Hz ~ 500 KHz	
	Mode	Burst, Continuous	
	Burst Count	1 to 65535	
	Trigger Start	Hardware or Software	

COM Ports	
Ports	1 x RS-232
Baud Rate	115200 bps
Data Format	N, 8, 1
Protocol	Modbus/RTU
Power	
Consumption	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



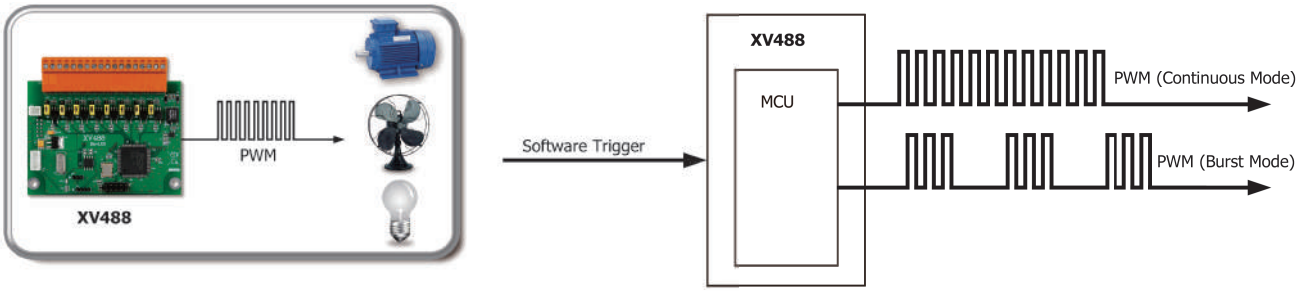
Internal I/O Structure



Wire Connections

Internal Power		
PWM Output	**ON State Readback as 1**	**OFF State Readback as 0**
Sink		
Source		
External Power		
PWM Output	**ON State Readback as 1**	**OFF State Readback as 0**
Sink		

Applications



Ordering Information

XV488 CR	8-ch Isolated PWM Output Expansion Board (RoHS)