

## I-8088W

### 8-channel PWM Output And 8-Channel isolated DI Module



Model: I-8088W

## Features

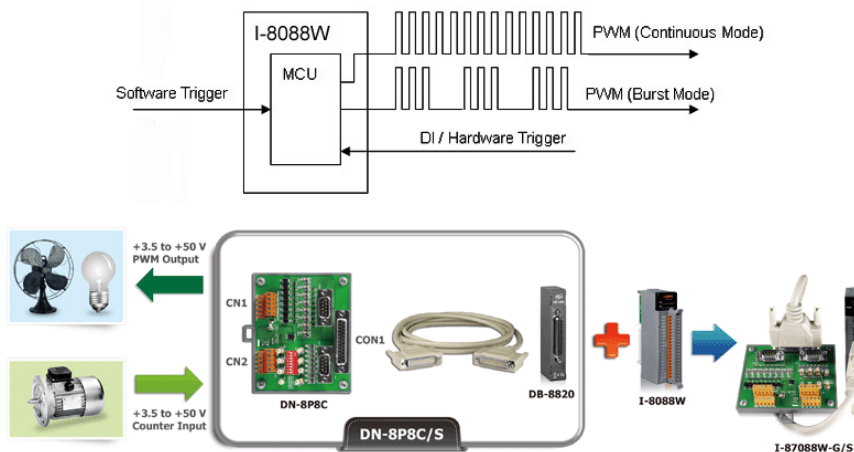
- Automatic generation of PWM outputs by hardware, without software intervention.
- 10 Hz ~ 500 kHz (non-continuous) PWM output frequency with 0.1%~99.9% duty cycle
- Software and hardware trigger mode for PWM output
- Individual and synchronous PWM output
- Using software trigger mode, you can set configuration for all PWM channels then trigger them one by one or all of them at the same time.
- Burst mode PWM operation for standby
- DI channel can be configured as simple digital input channel or hardware trigger source of the PWM output.

## Introduction

PWM (Pulse width modulation) is a powerful technique for controlling analog circuits. It uses digital outputs to generate a waveform with variant duty cycle and frequency to control analog circuits. I-8088W has 8 PWM output channels and 8 digital inputs. It can be used to develop powerful and cost effective analog control system.

## Applications

- Controlling the position/speed of motors
- Dimming the brightness of lamps
- Controlling the speed of fans



## Specifications

PWM Output	
Channels	8-ch
Scaling Resolution	16-bit(1 ~128 $\mu$ s for each step)
Frequency Range	10 Hz ~ 500 kHz (non-continuous)
Duty Cycle	0.1% ~ 99.9%
PWM Mode	Burst Counting, Continuous mode
Burst Counter	1 ~ 65535
Hardware Trigger Mode	Trigger Start & Trigger Stop
Output Type	Source
Max Load Current	1 mA
Intra-module Isolation, Field to Logic	3750 Vrms
ESD Protection	4 kV Contact for each channel
Digital Input	
Input Channels	8(Sink/Source)
Input Type	One Common for All Digital Input
On Voltage Level	+5 ~ +30 V
Off Voltage Level	<0.8V
Input Impedance	4.7 k $\Omega$ , 1/4 W
Intra-module Isolation, Field to Logic	3750 Vrms
ESD Protection	4 kV Contact for each channel
LED Display	
1 LED as Power Indicator /16 LED as PWM and Digital Input Indicator	
Power	
Power Consumption	40 mA @ 5 V, 2 W $\pm$ 5%
Environment	
Operating Temperature	-25 ~ +75 $^{\circ}$ C
Storage Temperature	-30 ~ +85 $^{\circ}$ C
Humidity	5 ~ 95%, Non-condensing
Dimensions	
30mm x 102mm x 115mm (W x L x H)	

## Ordering Information

I-8088W-G CR	8-channel PWM Output And 8-Channel isolated DI Module (Gray Cover) (RoHS)	Art. No. 121112
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