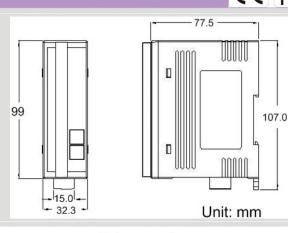
DeviceNet Series Products CE F©

PWM module of DeviceNet Slave





CAN-2088D

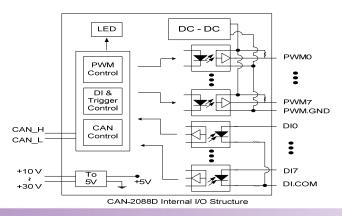
Dimensions

PWM (Pulse width modulation) is a powerful technique for controlling analog circuits. By using digital outputs, it can generate a waveform with variant duty cycle and frequency to control analog circuits. CAN-2088D, a CAN bus remote I/O modules with DeviceNet protocol, provides 8 PWM output channels and 8 digital inputs channels with high-speed counter function. It can be used to develop practical and economical analog control systems in the CANopen network.

Features

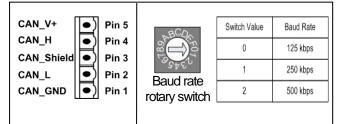
- Hardware-controlled PWM output.
- PWM output frequency: 0.2 Hz ~ 500 kHz with 0.1%~99.9% duty cycle.
- PWM Output Modes: software trigger / hardware trigger.
- Trigger each PWM output individually or all PWM outputs synchronously.
- Support Burst output mode and Continue output mode.
- Provide 32-bit 500 kHz high-speed counter for each DI channel.
- Pass the validation of DeviceNet conformance test.
- Provide EDS file for DeviceNet master interface.

Block Diagram



I/O Pin & Wire Connection				
	Pin Assignment	Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
<u>ر_</u> ۲۰۰	PO.0		Relay On	Relay Off
<u> </u>	PO.1	Drive Relay		
[03	PO.2			
[04	PO.3		. □⊖ PO.GND	, □⊖ PO.GND
[<u>]</u> 05	PO.4	Resistance Load		
ີ [ີ 06	PO.5			tax
[07	PO.6		PO X □⊖ PO X	
[<u>0</u> 8	PO.7			
្រី 09	PO.GND	Input Type	ON State LED ON	OFF State LED OFF
[·] 10	PO.GND	mput type	Readback as 1	Readback as 0
<u>ا</u> ر ا	DI.0	Relay Contact	Relay On	Relay Off
ر 12	DI.1		+ Relay Close □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	+ □ □ DI X □ □ DI.GND
្រី 13	DI.2	TTL/CMOS Logic	Voltage > 10 V	Voltage < 4 V
[<u></u>] 14	DI.3		Logic Power O Logic Level Low	Logic Power O Logic Level Low
្រ្រា 15	DI.4		Open Collector Op	
<u>ل</u>	DI.4 DI.5	NPN	Open Collector On	Open Collector Off
[16		NPN Output	Open Collector On	
[16	DI.5 DI.6	Output		
16	DI.5 DI.6			Open Collector Off

CAN Pin & Baud Rate Rotary

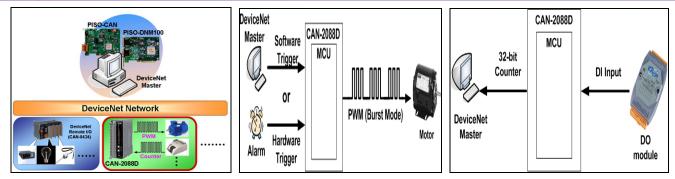




Hardware Specifications

CAN Interface			
DeviceNet Specification	Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5		
DeviceNet subscribe	Group 2 Only Server		
Connection supported	1 connection for Explicit Messaging 1 connection for Polled I/O 1 connection for Bit-Strobe I/O		
Node ID	0~63 selected by rotary switch		
Baud Rate (bps)	125 kbps, 250 kbps, 500 kbps		
Heartbeat message	Yes		
Shutdown message	Yes		
Terminator Resistor	Switch for 120 Ω terminator resistor		
PWM Interface			
Channels	8 (Source)		
Frequency Range	$0.2 \text{ Hz} \sim 500 \text{ kHz}$ (non-continuous, the min. units of the high/low level signal is 1 us).		
PWM Mode	Continue mode, Burst mode, Hardware trigger mode, Software trigger mode		
ESD Protection	4 kV Contact for each channel		
DI Interface			
Channels	8 (Sink)		
Counter Frequency	32-bit, 500 kHz Max.		
LED			
Round LED	PWR LED, NET LED, MOD LED		
I/O LED	8 LEDs as PWM, 8 LEDs as Digital Input, and 1 LED as terminal resister indicator		
Power			
Input range	Unregulated $+10 \sim +30 V_{DC}$		
Power Consumption	3.5 W		
Mechanism			
Installation	DIN-Rail		
Dimensions	32.3 mm x 99 mm x 77.5 mm (W x L x H)		
Environment			
Operating Temp.	-25 ~ +75 °C		
Storage Temp.	$-30 \sim +80$ °C		
Humidity	10 ~ 90% RH, non-condensing		

Application



Ordering Information

CAN-2088D

DeviceNet module of 8-channel PWM and 8-channel DI with high-speed counters.