



CAN-2088D

PWM Module of DeviceNet Slave

■ Features

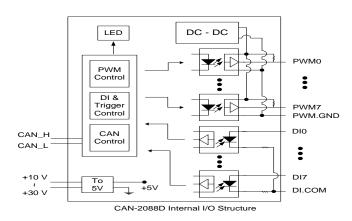
- Hardware-controlled PWM output
- PWM output frequency: 0.2 Hz ~ 500 kHz with 0.1%~99.9% duty cycl
- PWM Output Modes: software trigger / hardware trigger
- Trigger each PWM output individually or all PWM outputs synchronously
- Support Burst output mode and Continue output mode
- Provide 32-bit 500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



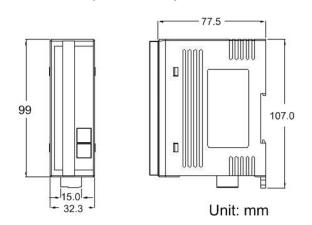
■ Introduction

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 DevicdNet network.

■ Internal I/O Structure



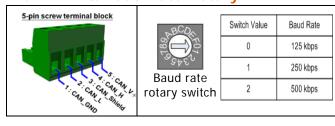
■ Dimensions (Units: mm)



■ I/O Pin & Wire Connection



CAN Pin & Baud Rate Rotary

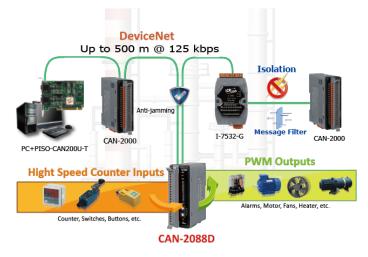


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■ Specifications

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	
Terminal Resistor	Switch for 120 Ω terminal resistor	
PWM Interface		
Channels	8 (Source)	
Output Max. Load Current	1 mA	
Frequency Range	$0.2~Hz\sim500~kHz$ (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 ~ +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 ℃	
Storage Temp.	-30 ∼ +80 °C	
Humidity	10 ~ 90% RH, non-condensing	
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■ Application



Ordering Information

CAN-2088D	DeviceNet module of 8-channel PWM and 8-channel DI with high-speed counters
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