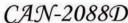


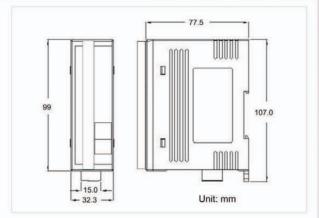
DeviceNet Slave

PWM Module of DeviceNet Slave









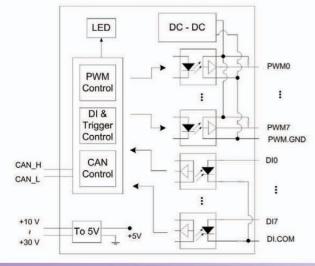
Dimensions

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 DeviceNet 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 inter-

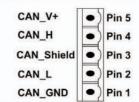
Internal I/O Structure



I/O Pin & Wire Connection

Terminal No.	Pin Assignment	Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
[□] 01	PO.0	Drive Relay	Relay On	Relay Off
[02	PO.1		noi ralland	DO'x GOLUBAN
[=] 03	PO.2		DE POX	PO X
[04	PO.3		\$ [BO] [Fo.ono]	\$ [BG] [10.04B]
[a 05	PO.4	Resistance Load		
[a] 06	PO.5		DE POX	*□ × □⊖ PO X
[D 07	PO.6		PO.GND	₽O.GND
[= 08	PO.7			
[<u>0</u> 09	PO.GND	Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
[=] 10	PO.GND	Relay Contact	Relay On	Relay Off
[n] 11	DI.0		+_ DE DIX	+L DIX
[a 12	DI.1		Retay Close DE DI.GND	Reday Open [] DI.GND
[= 13	DI.2	TTL/CMOS	Voltage > 10 V	Voltage < 4 V
4	DI.3		Logic Forest Logic Level Lose DI X DI GND	Logic Level Low DE X
[o 15	DI.4		Open Collector On	Open Collector Off
[=] 16	DI.5	NPN Output		* * * * * * * * * * * * * * * * * * * *
[□ 17	DI.6		DI X	DIX DE DIGND
[0 18	DI.7	PNP Output	Open Collector On	Open Collector Off
[0 19	DI.GND			XIO ODI X
[20	DI.GND		ON SI DI.GND	DI.GND

CAN Pin & Baud Rate Rotary





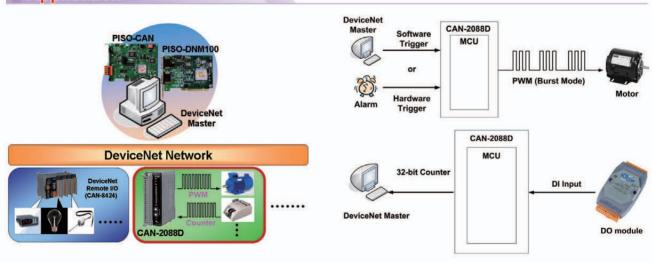
Baud rate rotary switch

Rotary Switch Value	Baud rate (kbps)
0	125
1	250
2	500

Hardware Specifications

DeviceNet Specification	Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5		
DeviceNet subscribe	Group 2 Only Server		
	1 connection for Explicit Messaging		
Connection supported	1 connection for Polled I/O		
Samuel Committee	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)		
Output Max. Load Current	1 mA		
Frequency Range	0.2 Hz ~ 500 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 °C		
Storage Temp.	-30 ~ +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
07111 20002	Device the tributal of a charmet firm and a charmet Di mar ingli apaca countere

Website: http://www.icpdas.com E-mail: service@icpdas.com 3-40