



CAN-2055C

8-ch DI & 8-ch DO module of CANopen Slave

■ Features

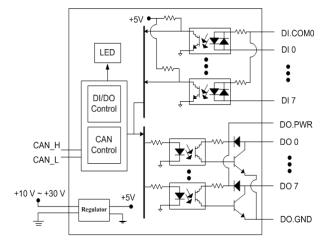
- NMT Slave
- Providing Pair-Connect function
- Provide default EDS file
- ESD Protection 4 KV Contact for each channel
- Support Power supply 10 ~30V_{DC}
- Support CiA-301 v4.02, CiA-401 v2.1
- Support PDO Mapping



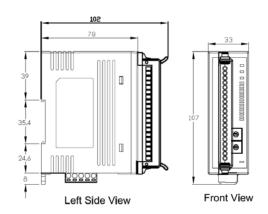
Introduction

CAN-2055C module follows the CiA-301 version 4.02 and CiA-401 version 2.1. You can access the digital I/O status and set the configuration by using standard CANopen protocol. CAN-2055C has passed the validation of the CiA CANopen Conformance Test tool. Therefore, you can use it with standard CANopen master easily by applying the EDS file. CAN-2055C has 8 isolated sink/source input channels and 8 isolated source output channels. It can be used to various applications, such as PNP, NPN, TTL, relay contact and so forth. By owing to the CANopen masters of ICP DAS, you can quickly build a CANopen network to approach your requirement.

Internal I/O Structure



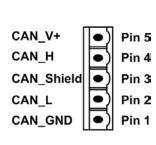
Dimensions



■ I/O Pin & Wire Connection

Terminal No.	Pin Assignment	Input Type	ON State LED ON Readback as 1	OFF State LED OFF
01	DI.COM			Readback as 0
02	DIO	Relay	Relay On	Relay Off
7 2 02	DII	Contact	+ □ DI.COM	+ □ DI.COM
			Petay Close DE X	Relay Open D DI X
L 04	DI2		Voltage > 10 V	Voltage < 4 V
05	DI3	TTL/CMOS Logic	Logic Power DI.COM	Logic Power DI.COM
06	DI4	Logic	Logic Love Low DE X	Code Fewer Form D⊜ DIX
07	DI5	NPN Output	Open Collector On	Open Collector Off
08	D16		DI.COM DI X	DI.COM DIX
09	DI7			
n (10	DO0	PNP Output	Open Collector On	Open Collector Off
n 11	DO1		□ DI.COM	DFF DH.COM
р (12	DO2		□⊕ DIX	De Dix
[n 13	DO3	Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
14	DO4		Relay Off	Relay On
15	DO5	Drive Relay	□□x * □ DO.PWR	□□↓ * □⊕ DO.PWR
16	DO6		□ DO X	— □⊕ Do x
n a (17	DO7		□□□□ DO.GND	□⊕ DO.GND
a (18	DO.GND			
n (19	DO.GND	Resistance Load	*□×** □⊖ DO.PWR	*□□□ DO.PWR
20	DO.PWR	Load	DO X DO GND	D⊕ DO X

Node ID & Baud rate DIP Switch





Baud rate
Rotary switch

Switch Value	Baud Rate	
0	10 kbps	
1	20 kbps	
2	50 kbps	
3	125 kbps	
4	250 kbps	
5	500 kbps	
6	800 kbps	
7	1000 kbps	

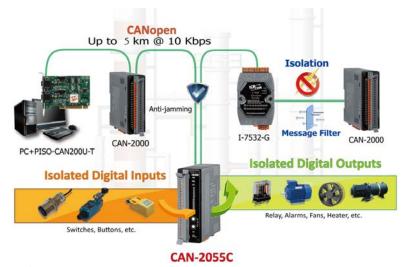
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Specifications

CAN Interface				
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Connector	5-pin screwed terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+)			
Baud Rate (bps)	10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1M□			
Terminator Resistor	Switch for 120 Ω terminator resistor			
Node ID	1~99 selected by rotary switch			
Protocol	CANopen CiA-301 ver4.02, CiA-401 ver2.1□			
No. of PDOs	10 Rx, 10Tx (Support Dynamic PDO)			
PDO Mode	Event Triggered, Remotely requested, Cyclic and acyclic SYNC			
Digital Input				
Channels	8 (Sink / Source)			
On Voltage Level	+3.5 ~ +30 VDC			
Off Voltage Level	+1 V _{DC} Max.			
Response Time	250 us			
ESD Protection	4 kV Contact for each channel			
Digital Output				
Channels	8 (Source)			
Load Voltage	10 ~ 30 V _{DC}			
Load Current	700mA, each channel			
Reaction Time	200 us			
LED				
Round LED	PWR LED, RUN LED, ERR LED			
Alarm LED	8 LEDs for DI and DO individually, and 1 LED as terminal resister indicator			
Power				
Input range	Unregulated +10 ~ +30 VDC			
Power Consumption	1.5 W			
Mechanism				
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			

Application



Ordering Information

CAN-2055C CR CANopen module of 8- channel Digital Input and 8- channel Digital Output

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