



CAN-2055C

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

#### **■** Features

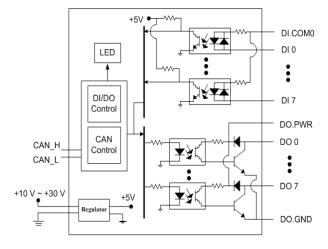
- NMT Slave
- Providing Pair-Connect function
- Provide default EDS file
- ESD Protection 4 KV Contact for each channel
- Support Power supply 10 ~30V<sub>DC</sub>
- Support CiA-301 v4.02, CiA-401 v2.1
- Support PDO Mapping



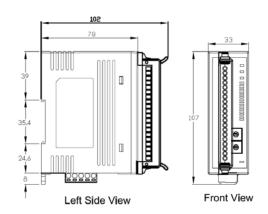
## Introduction

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



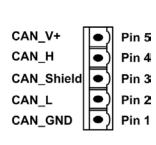
#### Dimensions



#### **■ I/O Pin & Wire Connection**

Teri	ninal No.	Pin Assignment	Input Type	ON State LED ON Readback as 1	OFF State LED OFF
2	D ( 01	DI.COM			Readback as 0
7	0 02	DIO	Relay	Relay On	Relay Off
Δ   Δ	03	DII	Contact	+ □ DI.COM	+ □□ DI.COM
D.C.				Pretay Close DE X	Retay Open DE DI X
1	n ( 04	DI2	TT: 101100	Voltage > 10 V	Voltage < 4 V
7	05	DI3	TTL/CMOS Logic	Logic Power DI.COM	Logic Power DE DI.COM
7	n 06	DI4	Logic	D DIX	De Di X
7	<b>07</b>	D15		Open Collector On	Open Collector Off
7	08	DI6	NPN Output	ON ELLOW DI.COM	OFFE J# □⊕ DI.COM
2	D 09	DI7	*1000000000000000000000000000000000000	□⊕ DIX	Del Dix
7	n ( 10	DO0	PNP	Open Collector On	Open Collector Off
2	n 11	DO1	Output	ON C DI.COM	OFFE DH.COM
7	n ( 12	DO2		□⊕   DIX	Del Dix
D.	n 13	DO3	Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
7	n 14	DO4		Relay Off	Relay On
5	n 15	DO5	Drive Relay	□□x * □ DO.PWR	□□1 · □□ DO.PWR
7	<b>16</b>	DO6	Directionary	□ DO X	— □⊕ Do x
5	n 17	DO7		□□□□ DO.GND	□⊕ DO.GND
7	n 18	DO.GND			
2	n 19	DO.GND	Resistance Load	. DO.PWR	. □ DO.PWR
7	n 20	DO.PWR	Load	□⊕ DO X	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 $\Omega$ 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 <sub>DC</sub> Max.				
Response Time	250 us				
ESD Protection	4 kV Contact for each channel				
Digital Output					
Channels	8 (Source)				
Load Voltage	10 ~ 30 V <sub>DC</sub>				
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 ~ <b>75</b> ℃				
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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