



16-channel Isolated DO module of CANopen Slave

#### **■** Features

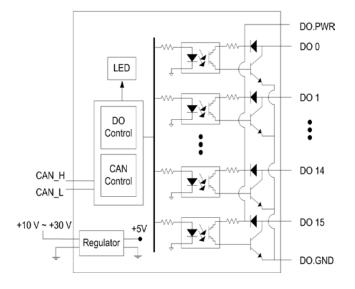
- NMT Slave
- Providing I/O Pair-connection Function
- Provide default EDS file
- Passed the validation of CiA CANopen Conformance
   Test tool
- Support Polarity Output Setting and Save
- Support Error Value Output Setting and Save
- Support Dynamic PDO
- Support Application: Drive Relay, Resistance Load
- ESD Protection 4 kV Contact for each channel



### Introduction

CAN-2057C module follows the DS-301 version 4.02 and DSP-401 version 2.1. CAN-2057C had passed the validation of the CiA CANopen Conformance Test tool. Therefore, users can use it with standard CANopen master easily by applying the EDS file. CAN-2057C has 16-channel isolated open collector output and it can be used to various applications, such as drive relay, resistance load and so forth. By owing to the CANopen masters of ICP DAS or other manufactory, users can quickly build a CANopen network to approach user's requirements.

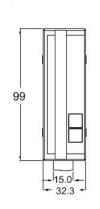
#### Internal I/O Structure

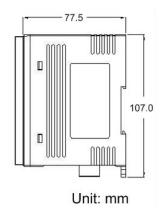


### **■ I/O Pin & Wire Connection**

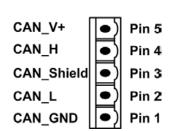
Terminal No.		Pin Assignment			
[ ]	01	DO.0			
[ ]	02	DO.1			
	03	DO.2			
[ 0	04	DO.3		ON State LED ON	OFF State LED OFF
	05	DO.4	Output Type	Readback as 1	Readback as 0
[ ]	06	DO.5	Drive Relay	Relay Off	Relay On
[ ]	07	DO.6			[ao]]]aaaya
[ ]	08	DO.7		DO.PWR DO X DO DO.GND	DO.PWR DO X DO DO.GND
[ ]	09	DO.8			
	10	DO.9			
	11	DO.10	Resistance Load		
[ ]	12	DO.11		DO.PWR DO X DO.GND	DO.PWR
[-]	13	DO.12			DO X
[ ]	14	DO.13			
	15	DO.14			
[ -	16	DO.15			
[]	17	DO.GND			
[ ]	18	DO.GND			
	19	DO.PWR			
[ ]	20	DO.PWR			

## Dimensions





### **■ CAN Pin & Baud Rate Rotary**





Baud rate rotary switch

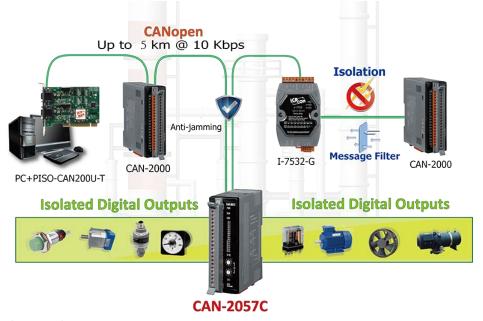
Switch Value	Pair- connection	Baud Rate
0	8	10 kbps
1	9	20 kbps
2	Α	50 kbps
3	В	125 kbps
4	С	250 kbps
5	D	500 kbps
6	E	800 kbps
7	F	1000 kbps



### **Specifications**

Specifications			
CAN Interface			
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, 1 M		
Terminal Resistor	Switch for 120 $\Omega$ terminal resistor		
Node ID	1~99 selected by rotary switch		
Protocol	CANopen DS-301 ver4.02, DS-401 ver2.1		
No. of PDOs	10 Rx, 10 Tx (support dynamic PDO)		
PDO Mode	Event Triggered, Remotely requested, Cyclic and acyclic SYNC		
Error Control	Node Guarding protocol and Heartbeat Producer protocol		
Emergency Message	Yes		
Digital Output			
Channels	16 (Sink)		
Output Type	Open-collector		
Reaction Time	150 us		
Max Load Current	100 mA per channel		
Load Voltage	$+5 \sim +30 \text{ V}_{DC}$		
Intra-module Isolation	3750 Vrms		
ESD Protection	4 kV Contact for each channel		
LED			
Round LED	PWR LED, RUN LED, ERR LED		
I/O LED	16 LEDs as Digital Output, and 1 LED as terminal resister indicator		
Power			
Input range	Unregulated +10 ~ +30 V <sub>DC</sub>		
Power Consumption	1.5 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-2057C	CANopen module of 16-channel Isolated Open-collector Digital Output
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