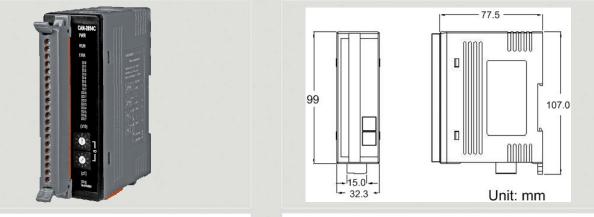
CANopen Series Products CE FC 8-ch DI & 8-ch DO module of CANopen Slave



CAN-2054C

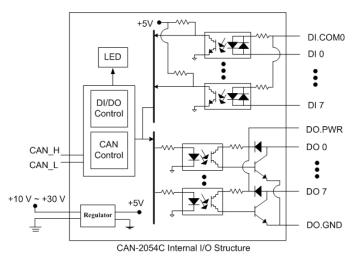
Dimensions

CAN-2054C module follows the CiA DS-301 version 4.02 and DSP-401 version 2.1. You can access the digital I/O status and set the configuration by using standard CANopen protocol. CAN-2054C 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-2054C has 8 isolated sink/source input channels and 8 isolated sink 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 requirements.

Features

- NMT Slave
- Providing Pair-Connect function
- Provide default EDS file
- ESD Protection 4 KV Contact for each channel
- Support Power Supply $+10 \sim +30 \text{ V}_{DC}$
- Support CiA DS-301 v4.02, DSP-401 v2.1
- Support PDO Mapping

Internal I/O Structure



Terminal No.		Pin Assignment	Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0	
Ç • (01	DI.COM		Relay On	Relay Off	
201	02	DI0	Relay			
[= (03	DI1	Contact	+ Relay Close □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	* □ □ DI.COM	
[= (04	D12		Voltage > 10 V	Voltage < 4 V	
(D	05	DI3	TTL/CMOS Logic		Logic Power O Logic Level Low DI X	
(°	06	DI4	Logic	Logic Level Low		
(°∎)	07	D15	NPN	Open Collector On	Open Collector Off	
L.	08	DI6	Output			
C = (09	DI7				
(°	10	DO0	PNP	Open Collector On	Open Collector Off	
C = (11	DO1	Output			
20	12	DO2				
[= (13	DO3	Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0	
(u	14	DO4		Relay Off	Relay On	
(°	15	DO5	Drive Relay		DO.PWR	
(• (16	DO6				
[• (17	DO7				
L.	18	DO.GND	Resistance	DO.PWR	to DO.PWR	
Ľ∎(19	DO.GND	Load			
ζ <u>α</u> (20	DO.PWR		DO.GND	□⊖ DO.GND	

Node ID & Baud rate DIP Switch

BCOA

			SABCI	AFF0	Baud rate
CAN_V+	•)	Pin 5	10545	12	rotary switch
CAN_H		Pin 4	Switch Value	Pair- connection	Baud Rate
CAN_Shield	•)	Pin 3	0	8	10 kbps
-	H		1	9	20 kbps
CAN L	•)	Pin 2	2	A	50 kbps
-	H	· ··· -	3	B	125 kbps
CAN_GND	•)	Pin 1	4	C	250 kbps
OAN_OND	- 7	• ••• •	5	D	500 kbps
			6	E	800 kbps
			7	F	1000 kbps

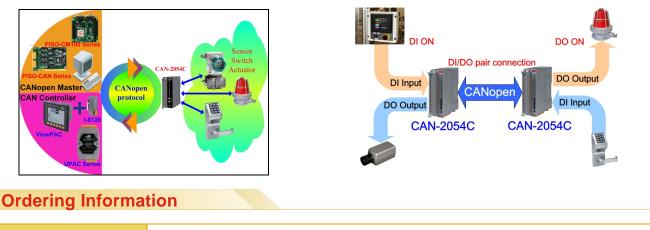
I/O Pin & Wire Connection



Hardware 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 Ω 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	rol Node Guarding protocol and Heartbeat Producer protocol				
Emergency Message	Yes				
Digital Input					
Channels	8 (Sink / Source)				
On Voltage Level	$+3.5 \sim +30 \ V_{DC}$				
Off Voltage Level	+1 VDC Max.				
Response Time	250 us				
ESD Protection	4 kV Contact for each channel				
Digital Output					
Channels	8 (Sink)				
Load Voltage	$+5 \sim +30 V_{DC}$				
Output Type	Open-Collector				
Reaction Time	200 us				
LED					
Round LED	PWR LED, RUN LED, ERR LED				
I/O LED	8 LEDs for DI and DO individually, and 1 LED as terminal resister indicator				
Power					
Input range	Unregulated $+10 \sim +30 \text{ V}_{DC}$				
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				

Applications



CAN-2054C

CANopen module of 8-channel Digital Input and 8-channel Digital Output