

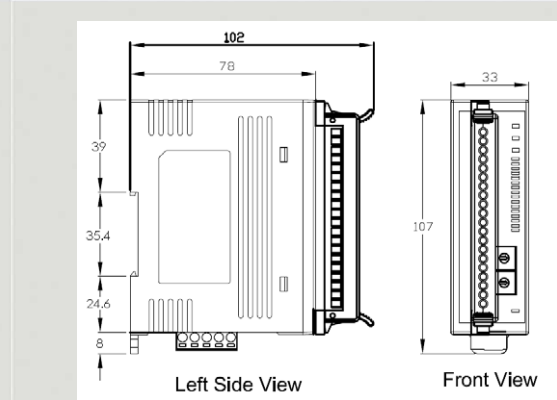


CANopen Series Products

4/8-channel Counter/Frequency CANopen Slave



CAN-2084C



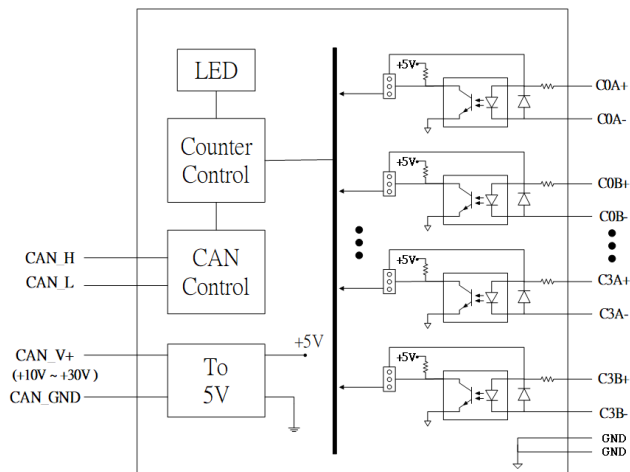
Dimensions

CAN-2084C module follows the CiA-301 version 4.02. You can access the digital I/O status and set the configuration by using standard CANopen protocol. CAN-2084C 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-2084C is a high speed Counter/Frequency module that provide “Up Counter”, “Frequency”, “Up/Down Counter”, “Dir/Pulse Counter” and “A/B Phase Counter” modes. It can be used to various applications. By owing to the CANopen masters of ICP DAS, you can quickly build a CANopen network to approach your requirement

Features

- NMT Slave
- 8-channel isolated/non-isolated input
- Provide 5 Counter modes
- Provide default EDS file
- ESD Protection 4KV Contact for each channel
- Support Power supply 10 ~30 V_{DC}
- Support CiA-301 v4.02, CiA-401 v2.1
- Support PDO Mapping

Internal I/O Structure

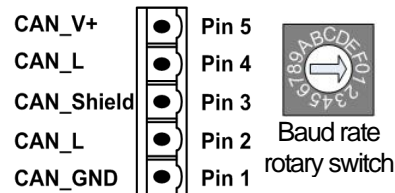


I/O Pin & Wire Connection

Terminal No.	Pin Assignment
01 ^o	COA+ ^o
02 ^o	COA- ^o
03 ^o	COB+ ^o
04 ^o	COB- ^o
05 ^o	C1A+ ^o
06 ^o	C1A- ^o
07 ^o	C1B+ ^o
08 ^o	C1B- ^o
09 ^o	C2A+ ^o
10 ^o	C2A- ^o
11 ^o	C2B+ ^o
12 ^o	C2B- ^o
13 ^o	C3A+ ^o
14 ^o	C3A- ^o
15 ^o	C3B+ ^o
16 ^o	C3B- ^o
17 ^o	GND ^o
18 ^o	GND ^o
19 ^o	N.C ^o
20 ^o	N.C ^o

Input Mode	Isolated	Non-isolated
Dir/Pulse	Vin+ (Pulse) Vin- (Pulse) Vin+ (Dir) Vin- (Dir)	CxA+ CxA- CxB+ CxB- Vin+ (Pulse and Dir) Vin- (Dir) GND
Up/Down	Vin+ (Up) Vin- (Up) Vin+ (Down) Vin- (Down)	CxA+ CxA- CxB+ CxB- Vin+ (Up) Vin- (Down) GND
Up	Vin+ (Up) Vin- (Up) Vin+ (Up) Vin- (Up)	CxA+ CxA- CxB+ CxB- Vin+ (Up) Vin- (Up) GND
A/B Phase (Quadrant)	Vin+ (A/B) Vin- (A/B) Vin+ (B/A) Vin- (B/A)	CxA+ CxA- CxB+ CxB- Vin+ (A/B) Vin- (B/A) GND
Frequency	Vin+ (Freq) Vin- (Freq) Vin+ (Freq) Vin- (Freq)	CxA+ CxA- CxB+ CxB- Vin+ (Freq) Vin- (Freq) GND
Jumper	Counter	Jumper setting
J1 ⁺	A0 ⁻	
J2 ⁺	B0 ⁻	
J3 ⁺	A1 ⁻	
J4 ⁺	B1 ⁻	
J5 ⁺	A2 ⁻	
J6 ⁺	B2 ⁻	
J7 ⁺	A3 ⁻	
J8 ⁺	B3 ⁻	

CAN Pin & Baud Rate Rotary



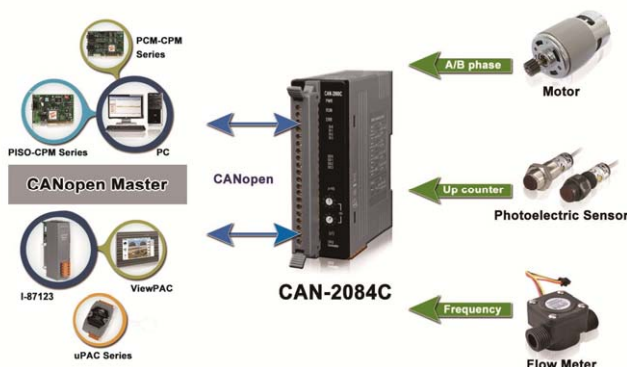
Switch Value	Baud Rate
0	10 kbps
1	20 kbps
2	50 kbps
3	125 kbps
4	250 kbps
5	500 kbps
6	800 kbps
7	1000 kbps



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, 1M
Terminal Resistor	Switch for 120 Ω terminal 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	4/8
Mode	4-channel Up/Down Counter (Up/Down) 4-channel Dir/Pulse Counter (Bi-direction) 4-channel Quadrant Counting 8-channel Up Counter 8-channel Frequency Programmable Digital Noise Filter: 1 to 32767 μs
Isolated Input Level	Logic Level 0: +1 V Max. Logic Level 1: +4.5 to +30 V
TTL Input Level	Logic Level 0: 0 to +0.8 V Logic Level 1: 2 to +5 V
ESD protection	4kV contact for each channel
LED	
Round LED	PWR LED, RUN LED, ERR LED
Alarm LED	8 LEDs for DI, and 1 LED as terminal resistor indicator
Power	
Input range	Unregulated +10 ~ +30 V _{DC}
Power Consumption	1.5 W
Mechanism	
Dimensions	33 mm x 99 mm x 78 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

Applications



Ordering Information

CAN-2084C

CANopen module of 4/8- channel Counter/Frequency