

CAN-2012C

CANopen Slave Module with 16bit,16ch AI

Features

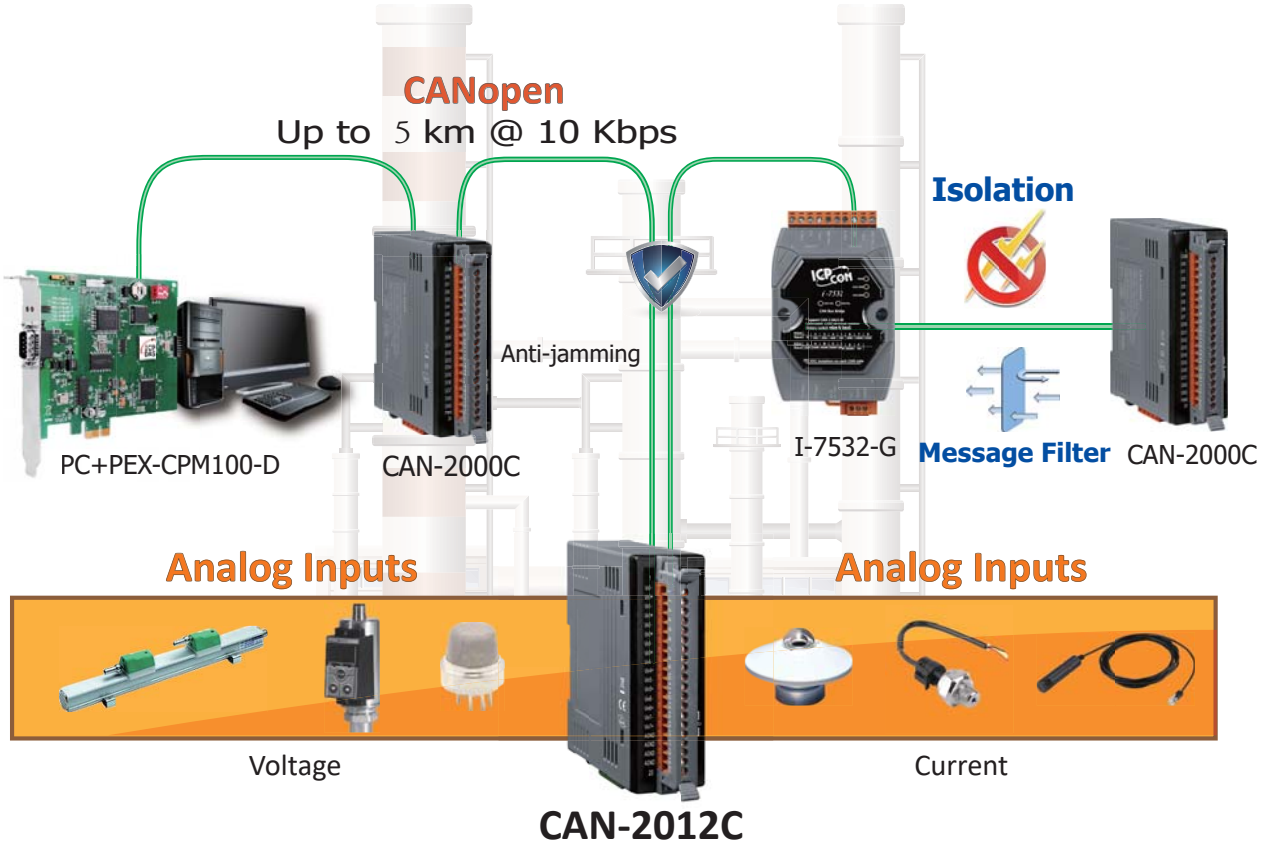
- NMT Slave
- NMT Error Control support Guarding and Heartbeat
- Provide default EDS file
- Passed the validation of CiA CANopen Conformance Test tool
- ESD Protection 4KV Contact for each channe
- Support Power supply 10 ~30 VDC
- Support CiA-301 v4.02, CiA-401 v2.1
- 8 Differential or 16 Single-ended

Introduction

CANopen is a communication protocol based on the CAN (Controller Area Network) bus. It is mainly used in embedded networks for mechanical control, such as industrial machinery control, vehicle control systems, factory automation, medical equipment control, remote data acquisition, environmental monitoring, and packaging machine control.

The CAN-2012C module complies with the CiA-301 4.02 and CiA-401 2.1 specifications and has been verified by the CiA CANopen compatibility test tool. Therefore, users can easily use CAN-2012C and its EDS files on standard CANopen master software. CAN-2012C has 16-bit, 8-channel differential input or 16-channel single-ended input. Can be applied to many different types of architectures. By using a CANopen master from ICP DAS or other manufacturers, users can efficiently build a CANopen network system.

Applications

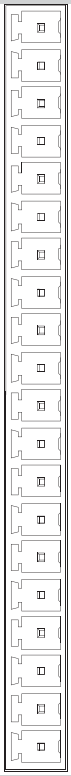


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Specifications

CAN Interface	
Connector	5-pin screwed terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+)
Baud Rate(bps)	10k,20k,50k,125k,250k500k,800k,1M
Terminal Resistor	Switch for 120Ω terminal resistor
Node ID	1~99 selected by rotary switch
Protocol	CANopen CiA301 ver4.02,CiA-401 ver2.1
No. of PDOs	10Rx,10Tx(Support Dynamic PDO)
PDO Mode	Event Triggered,Remotely requested,Cyclic and acyclic SYNC
Error Control	Node Guarding protocol and Heart-beat Producer protocol
Emergency Message	Yes
Analog Input	
Input Channels	8 Differential or 16 Single-ended (Software Selectable)
Input Type	±10V, ±5V, ±2.5V, 0~10V, ±20mA, 0~20mA,4~20mA
Sampling Rate	4000 Samples/Sec.(Total)
Resolution	16-bit
Over voltage protection	70 Vrms
LED	
Round LED	PWR LED, RUN LED, ERR LED
I/O LED	16 LEDs as Analog Input,,and 1 LED as terminal resister indicator
Power	
Input range	Unregulated + 10 ~ + 30 VDC
Power Consumption	0.5 W
Mechanism	
Dimensions	33 mm x 99 mm x78 mm(WxLxH)
Environment	
Operating Temp	-25 ~ 75 °C
Storage Temp	-30 ~ 80 °C
Humidity	10~ 90% RH, non-condensing

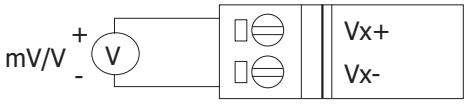
Pin Assignments



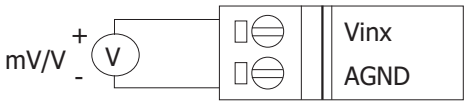
Terminal No.	**Differential** Pin Assignment	**Single-ended** Pin Assignment
01	V0-	Vin0
02	V0+	Vin1
03	V1-	Vin2
04	V1+	Vin3
05	V2-	Vin4
06	V2+	Vin5
07	V3-	Vin6
08	V3+	Vin7
09	V4-	Vin8
10	V4+	Vin9
11	V5-	Vin10
12	V5+	Vin11
13	V6-	Vin12
14	V6+	Vin13
15	V7-	Vin14
16	V7+	Vin15
17	AGND	AGND
18	AGND	AGND
19	AGND	AGND
20	AGND	AGND

Wire Connections

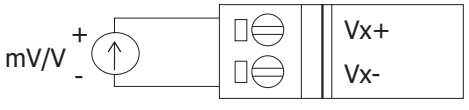
Voltage Input (Differential Mode)



Voltage Input (Single-ended Mode)



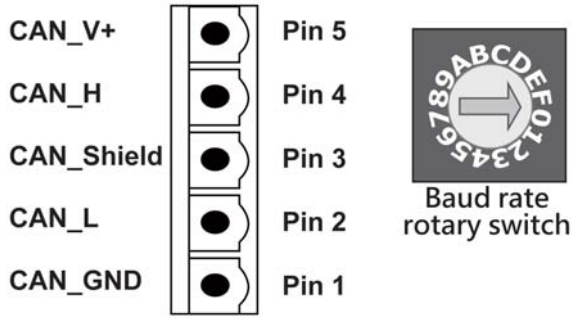
Current Input



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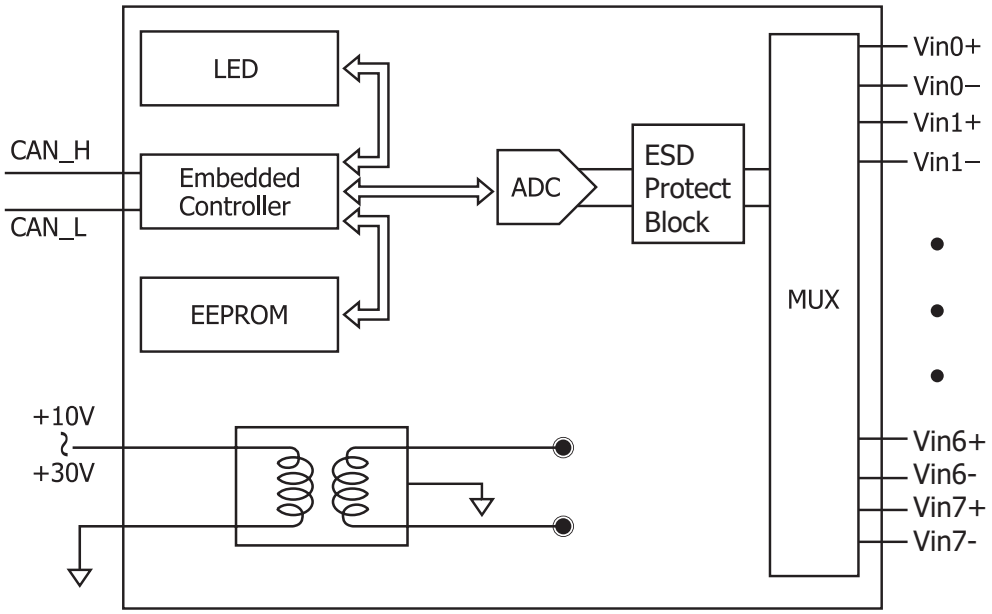
Appearance

CAN Pin & Baud Rate Rotary

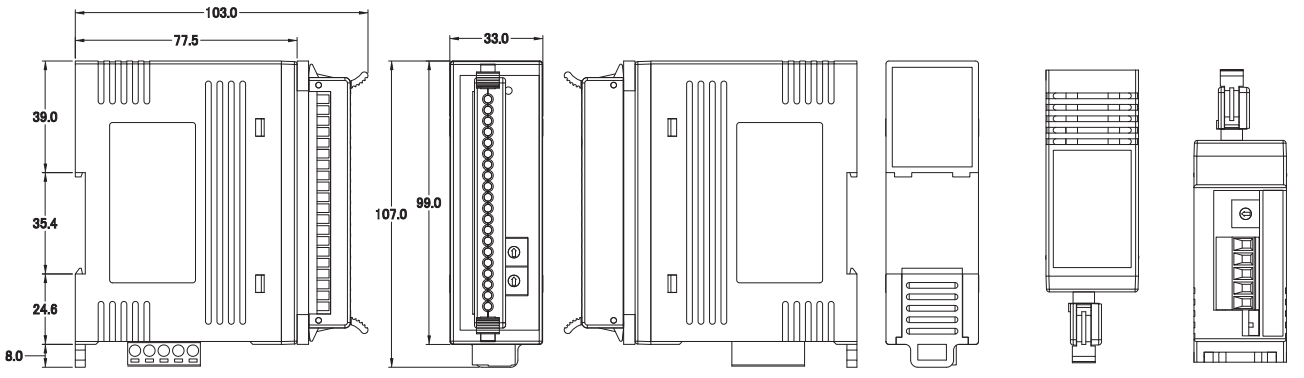


Switch Value	Baud Rate
0	10 kbps
1	20 kbps
2	50 kbps
3	125 kbps
4	250 kbps
5	500 kbps
6	800 kbps
7	1000 kbps

Internal I/O Structure



Dimensions (Units: mm)



Left View | Front View | Right View | Rear View | Top View | Bottom View

Ordering Information

CAN-2012C CR	CANopen Slave Module with 16bit,16ch AI (RoHS)

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