# ICP DAS

# CANopen Series Products

## Analog Input Module of CANopen Slave

CE FC

### CAN-2015C

### Dimensions



Left Side View    Front View
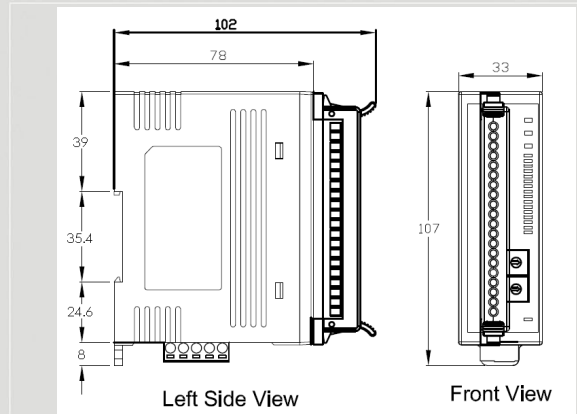
CAN-2015C module follows the CiA-301 version 4.02 and CiA-401 version 2.1. You can access the RTD input and set the configuration by using standard CANopen protocol. CAN-2015C has passed the validation of the CiA CANopen Conformance Test tool. Therefore, you can use it with standard CANopen master easily by applying the EDS file. CAN-2015C has 8 RTD input channels. By the CANopen masters of ICP DAS, you can quickly build a CANopen network to approach your requirement.

## Features

- Provide default EDS file
- Passed the validation of CiA CANopen Conformance Test tool
- ESD Protection 4 KV Contact for each channel
- Support Power Supply +10 ~ +30 VDC
- Support CiA-301 v4.02, CiA-401 v2.1
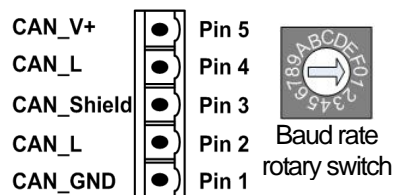- Support Dynamic PDO

## Internal I/O Structure



CAN-2015C Internal I/O Structure
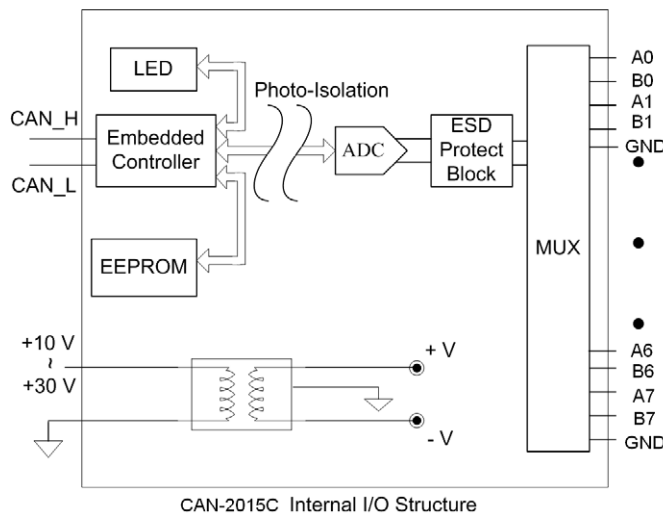
## I/O Pin & Wire Connection

| Terminal No. | Pin Assignment |
|---|---|
| 01 | A0 |
| 02 | B0 |
| 03 | A1 |
| 04 | B1 |
| 05 | GND |
| 06 | A2 |
| 07 | B2 |
| 08 | A3 |
| 09 | B3 |
| 10 | GND |
| 11 | A4 |
| 12 | B4 |
| 13 | A5 |
| 14 | B5 |
| 15 | GND |
| 16 | A6 |
| 17 | B6 |
| 18 | A7 |
| 19 | B7 |
| 20 | GND |

2-Wire of RTD

/Bx
Bx
Ax

3-Wire of RTD

/Bx
Bx
Ax

## CAN Pin & Baud Rate Rotary

CAN_V+  Pin 5
CAN_L  Pin 4
CAN_Shield  Pin 3
CAN_L  Pin 2
CAN_GND  Pin 1

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 |

## 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 |
| Terminator Resistor | Switch for 120 Ω terminator resistor |
| Node ID | 1~99 selected by rotary switch |
| Protocol | CANopen CiA-301 ver4.02, CiA-401 ver2.1 |
| PDO Mode | Event Triggered, Remotely requested, Cyclic and acyclic SYNC |
| Error Control | Node Guarding protocol and Heartbeat Producer protocol |
| **Analog Input** | |
| Channels | 8 RTD Input (2/3-wire) |
| Input Type | Pt100, Pt1000, Ni120, Cu100, Cu1000 |
| Resolution | 16 Bits |
| ESD Protection | 4 kV Contact for each channel |
| Sampling Rate | 10 Samples/Sec. (Total) |
| Accuracy | +/-0.05% FSR |
| Over Voltage | 120 $V_{DC}$ / 110 $V_{AC}$ |
| Input Impedance | 20mΩ |
| **LED** | |
| Round LED | PWR LED, RUN LED, ERR LED |
| Alarm LED | 8 LEDs as over Upper Limit Indicators, and 8 LEDs as below the Lower Limit Indicators |
| **Power** | |
| Input range | Unregulated +10 ~ +30 $V_{DC}$ |
| Power Consumption | 2.0 W |
| **Mechanism** | |
| Installation | DIN-Rail |
| Dimensions | 33 mm x 99 mm x 78 mm (W x L x H) |
| **Environment** | |
| Operating Temp. | -25 ~ 75 ℃ |
| Storage Temp. | -30 ~ 80 ℃ |
| Humidity | 10 ~ 90% RH, non-condensing |

## Applications
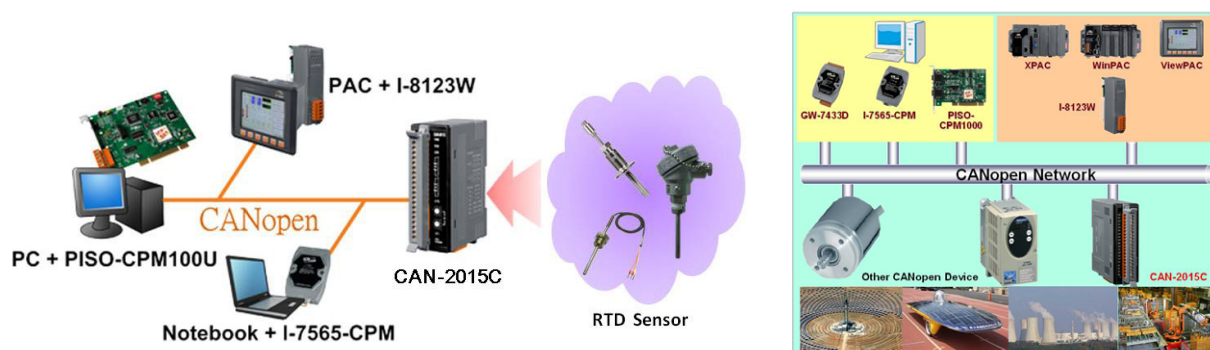


## Ordering Information

| CAN-2015C | CANopen module of 8- channel RTD Input |
|---|---|