

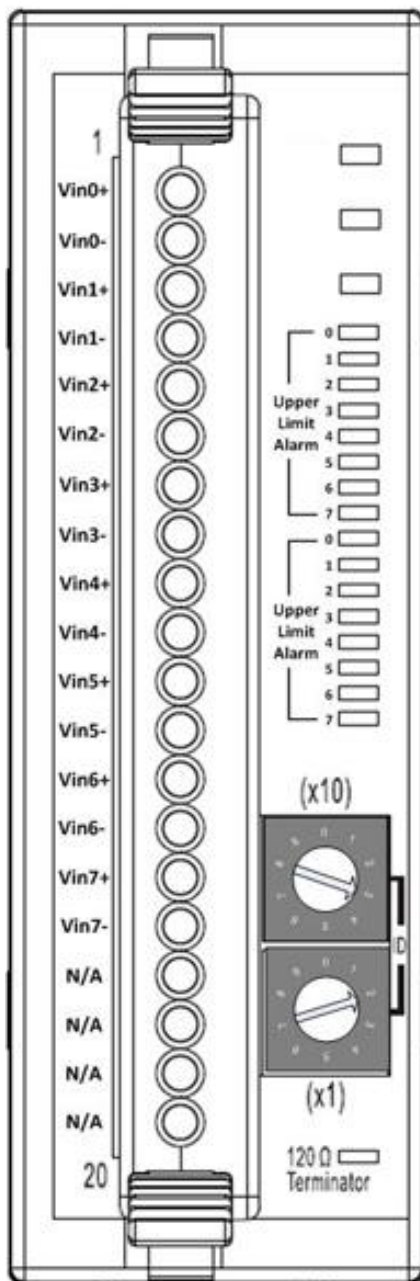
# CAN-2017C Quick Start

## Hardware Specification

<b>CAN Interface</b>	
CANopen Specification	CiA DS-301 v4.02, DS-401 v2.1
No. of PDOs	10 Rx, 10 Tx (Support dynamic PDO)
PDO Mode	Event-triggered, Remotely-requested, Cyclic and acyclic SYNC
Node ID	1~99 selected by rotary switch
Baud Rate (bps)	10k, 20k, 50, 125k, 250k, 500k, 800k and 1M
Error Control	Node Guarding protocol and Heartbeat Producer protocol
Terminator Resistor	Switch for 120 $\Omega$ terminator resistor
Connector	5-pin screwed terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+)
<b>Analog Input</b>	
Channels	8
Input Type	+/- 10V, +/- 5V, +/- 1V, +/- 500mV, +/- 150mV -20mA ~ +20mA(Requires Optional External 125 $\Omega$ Resistor)
Resolution	16-bit
ESD Protection	+/-4 kV, Contact for each channel
<b>LED</b>	
Status LED	PWR LED, RUN LED, ERR LED
Terminal Resister LED	Terminal Resister Indicator
Alarm LED	8 LEDs as over Upper Limit Indicators 8 LEDs as over Lower Limit Indicators
<b>Power</b>	
Input range	Unregulated +10 ~ +30 V <sub>DC</sub>
Power Consumption	2.0 W
<b>Environment</b>	
Operating Temp.	-25 ~ 75 $^{\circ}\text{C}$
Storage Temp.	-30 ~ 80 $^{\circ}\text{C}$
Humidity	10 ~ 90% RH, non-condensing

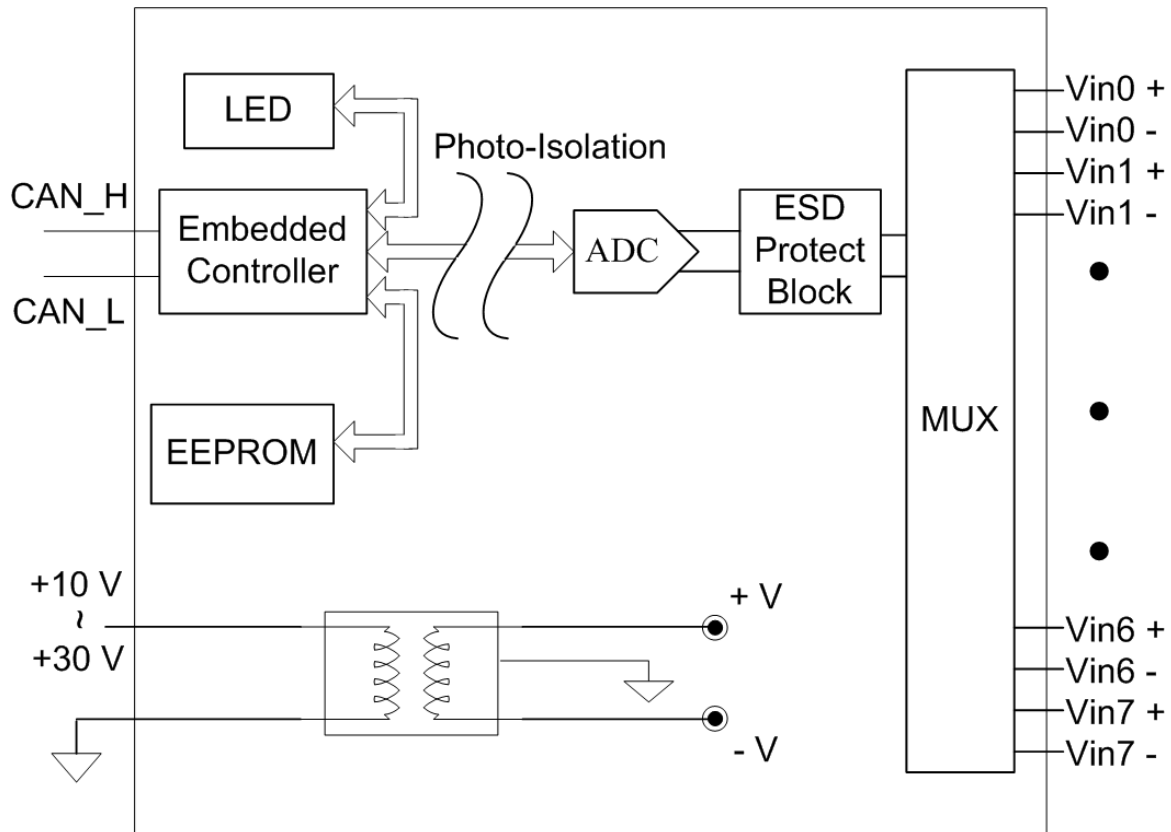
For more information about CAN-2017C, please visit the following website:  
[http://www.icpdas.com/products/Remote\\_IO/can\\_bus/can-2017c.htm](http://www.icpdas.com/products/Remote_IO/can_bus/can-2017c.htm)

## CAN-2017C Pin Assignments

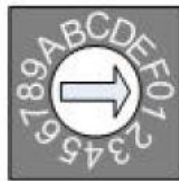


Terminal No.	Pin Assignment
01	Vin 0 +
02	Vin 0 -
03	Vin 1 +
04	Vin 1 -
05	Vin 2 +
06	Vin 2 -
07	Vin 3 +
08	Vin 3 -
09	Vin 4 +
10	Vin 4 -
11	Vin 5 +
12	Vin 5 -
13	Vin 6 +
14	Vin 6 -
15	Vin 7 +
16	Vin 7 -
17	N/A
18	N/A
19	N/A
20	N/A

## CAN-2017C Internal I/O Structure



CAN-2017 Internal I/O Structure



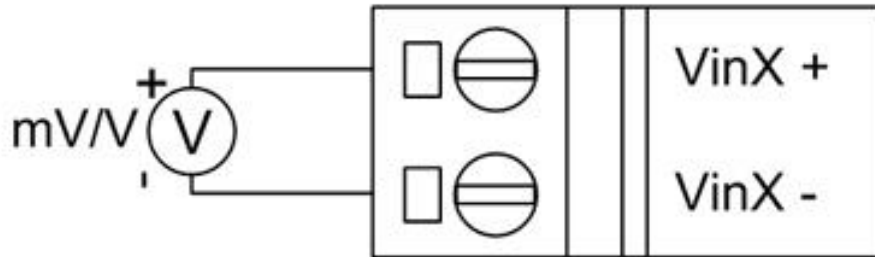
Baud rate rotary switch

Rotary Switch Value	Baud rate (k BPS)
0	10
1	20
2	50
3	125
4	250
5	500
6	800
7	1000

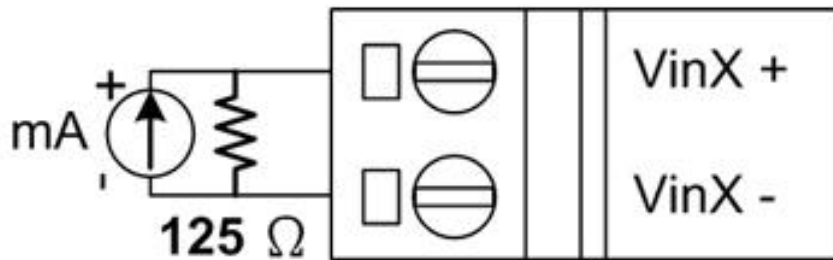
Baud rate and rotary switch

## CAN-2017C Wiring Connection Type

### Voltage Input Wiring

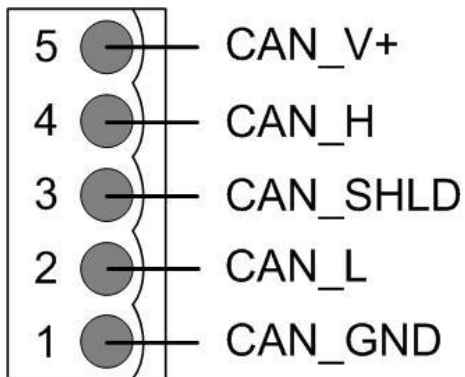


### Current Input Wiring



**Note:** When connecting to a current source, an optional external 125-Ohm precision resistor is required.

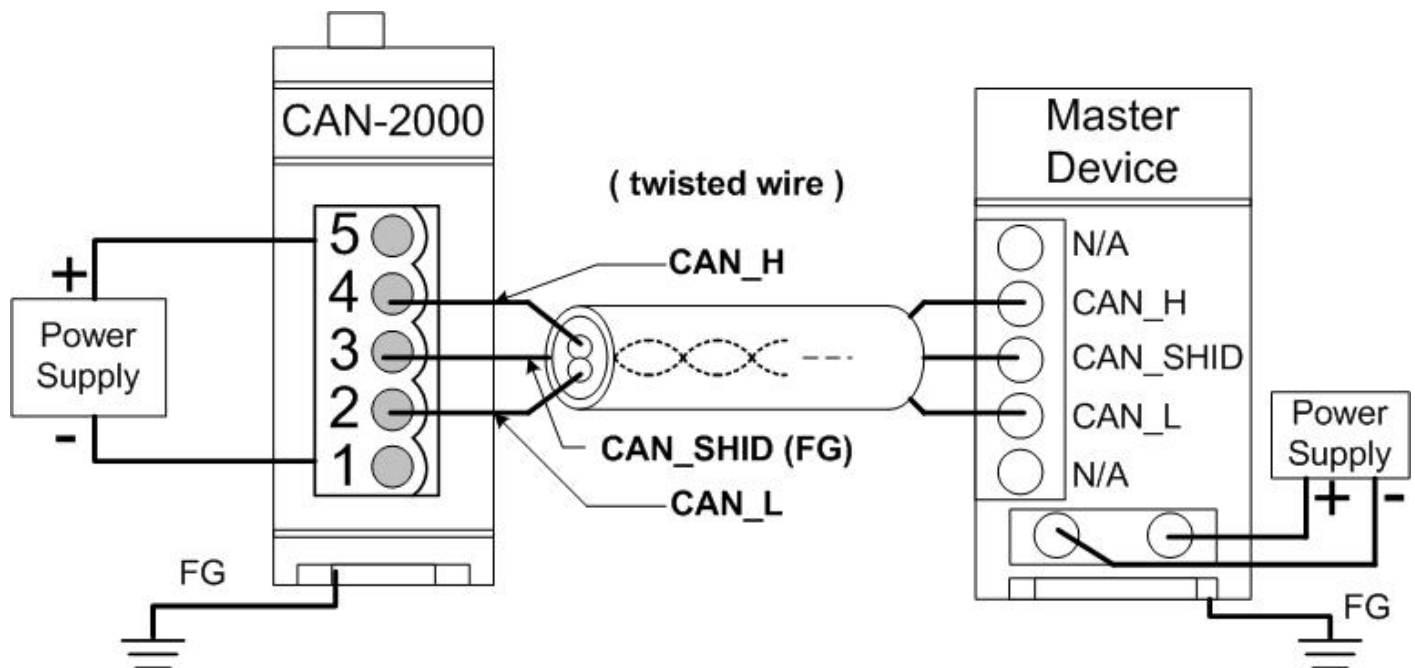
## CAN-2017C CAN Bus Wire Connection



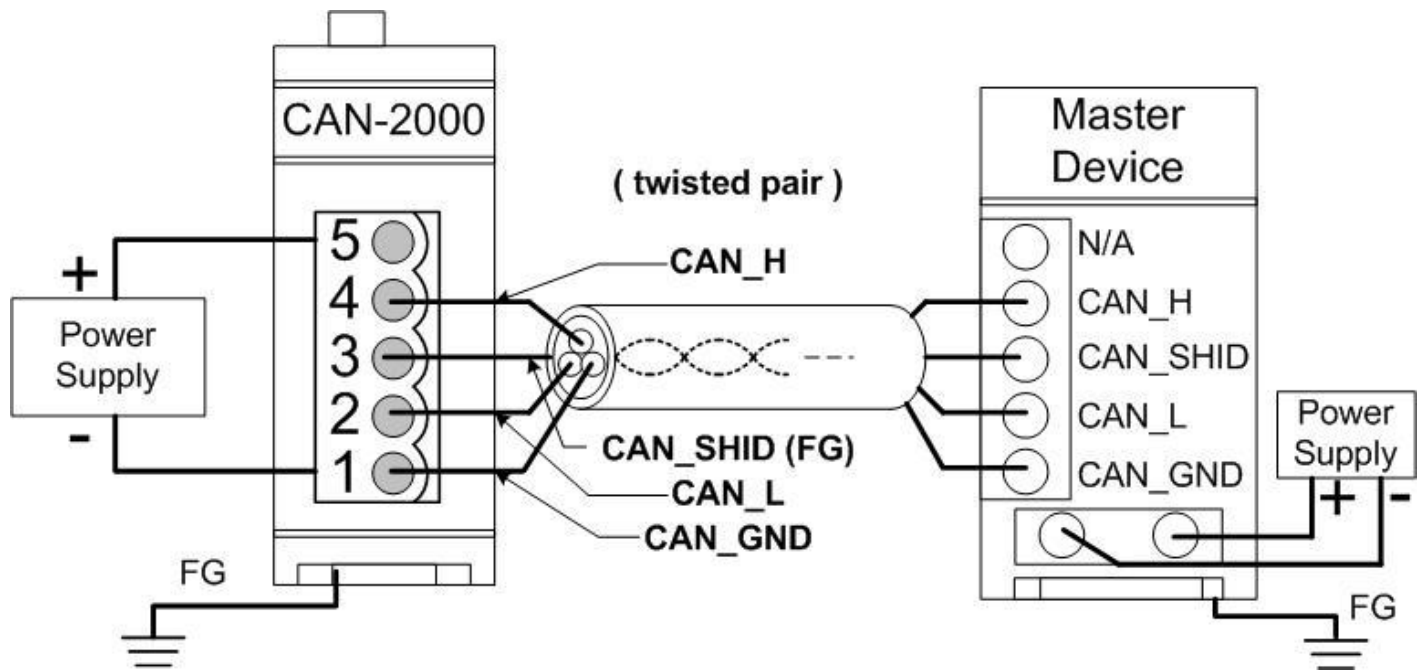
Pin	Signal	Description
5	CAN_V+	Power positive
4	CAN_H	Signal high of CAN Bus line
3	CAN_SHLD	Cable Shield ( <b>FG</b> )
2	CAN_L	Signal low of CAN Bus line
1	CAN_GND	CAN ground

\* CAN\_SHLD (FG) is Optional.

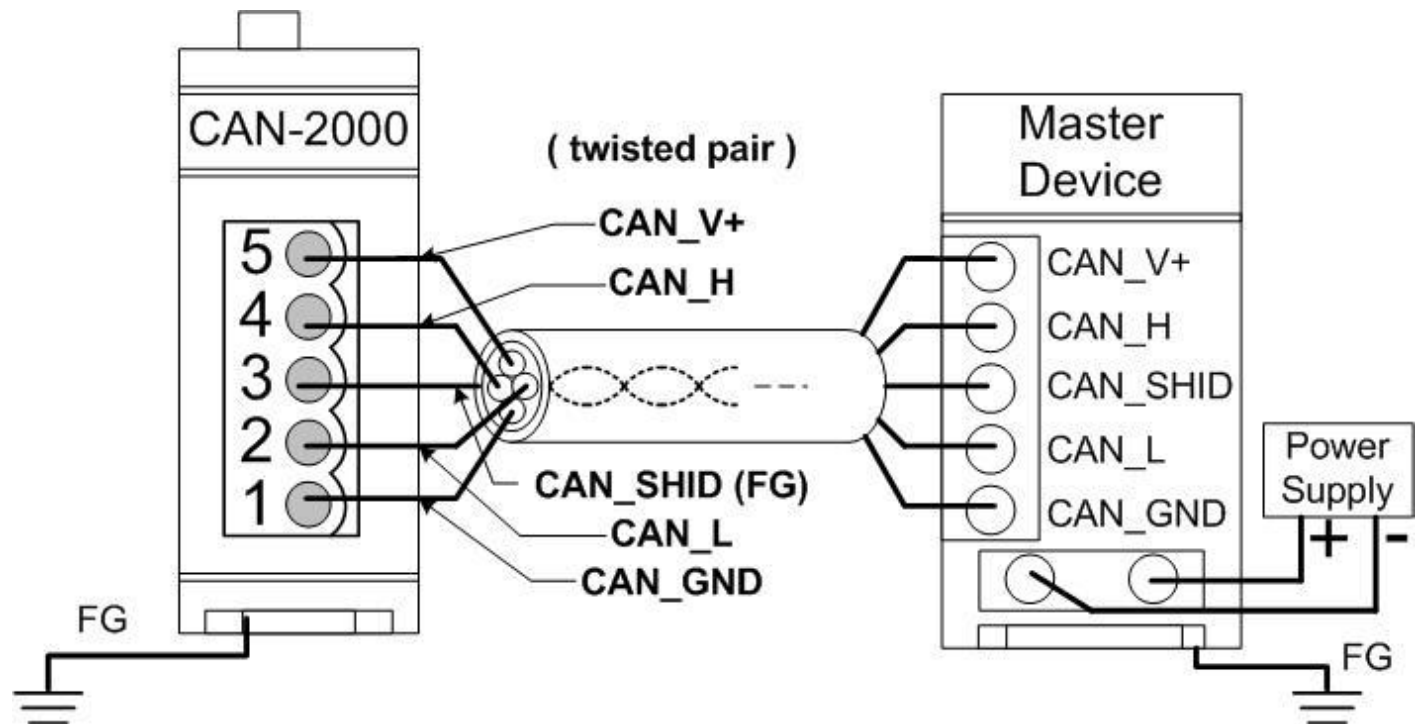
### 2-Wire Connection



### 3-Wire Connection

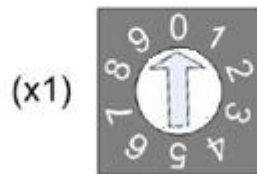
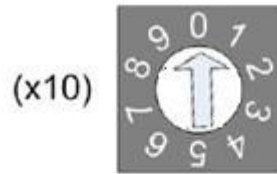


### 4-Wire Connection (The CAN-2000 is powered by the master device)



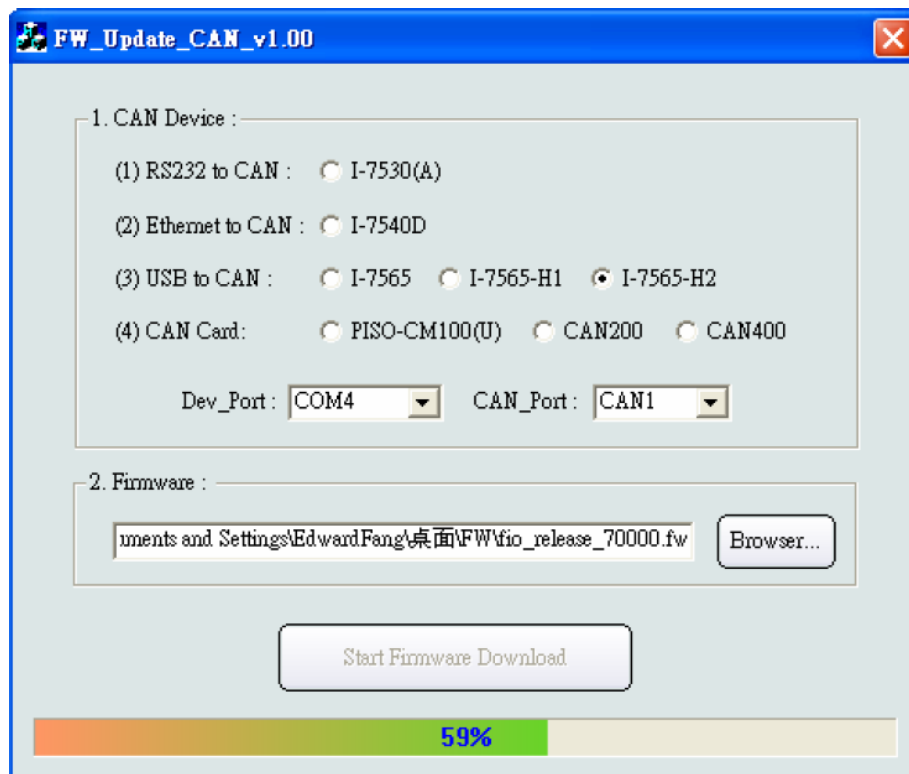
## CAN-2017C Firmware Update

**Step 1 – Set Module to “Bootloader” mode (set Node ID to 00). Then power on the module.**



**Node ID rotary switch**

**Step 2 – Run FW\_Update\_CAN Utility**



**( FW\_Update\_CAN Utility )**

## [1] CAN Device :

The below ICP DAS CAN products are supported by FW\_Update\_CAN utility for firmware update.

- (1) RS232 to CAN : I-7530
- (2) Ethernet to CAN : I-7540D
- (3) USB to CAN : I-7565, I-7565-H1, I-7565-H2
- (4) CAN Card : PISO-CM100(U),  
PISO-/PCM-/PEX-CAN200 / CAN400

Before firmware update, users need to set the below parameters.

- (1) Select CAN hardware interface
- (2) set Dev\_Port or Board\_ID
- (3) set CAN\_Port" number

## [2] Download Firmware :

- (1) Click "**Browser...**" button to choose firmware file, can\_2017c\_xx.fw.
- (2) Click "**Start Firmware Update**" button to start firmware update and it will show the total percentage of firmware update in progress bar. After the firmware update finished, it will show the "Firmware Update Success !!" message.



CAN-2017C firmware Download:

[ftp://ftp.icpdas.com/pub/cd/fieldbus\\_cd/canopen/slave/can-2000c/can-2017c/](ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/can-2017c/)

FW\_Update\_CAN Utility Download:

[ftp://ftp.icpdas.com/pub/cd/fieldbus\\_cd/canopen/slave/can-2000c/tools/](ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/tools/)