

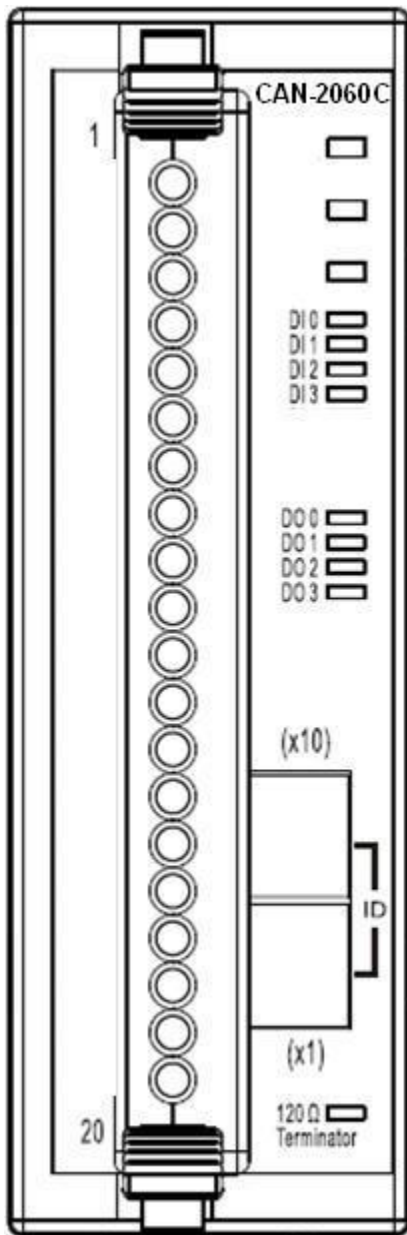
# CAN-2060C Quick Start

## Hardware Specification

<b>CAN Interface</b>	
CANopen Specification	CiA-301 v4.02, CiA -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>Digital Input</b>	
Channels	4 (Sink/Source)
On Voltage Level	3.5 ~30 V <sub>DC</sub>
Off Voltage Level	1 V <sub>DC</sub> Max.
Response Time	250 us
ESD Protection	+/-4 kV, Contact for each channel
<b>Relay Output</b>	
Channels	4
Type	Form A (SPST-NO)
Max. Load Current	5A per channel
Operate Time	10ms Max
Release Time	5ms Max
<b>LED</b>	
Status LED	PWR LED, RUN LED, ERR LED
Terminal Resister LED	Terminal Resister Indicator
DI/DO LED	4 LEDs as digital input indicators 4 LEDs as relay output 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 °C
Storage Temp	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

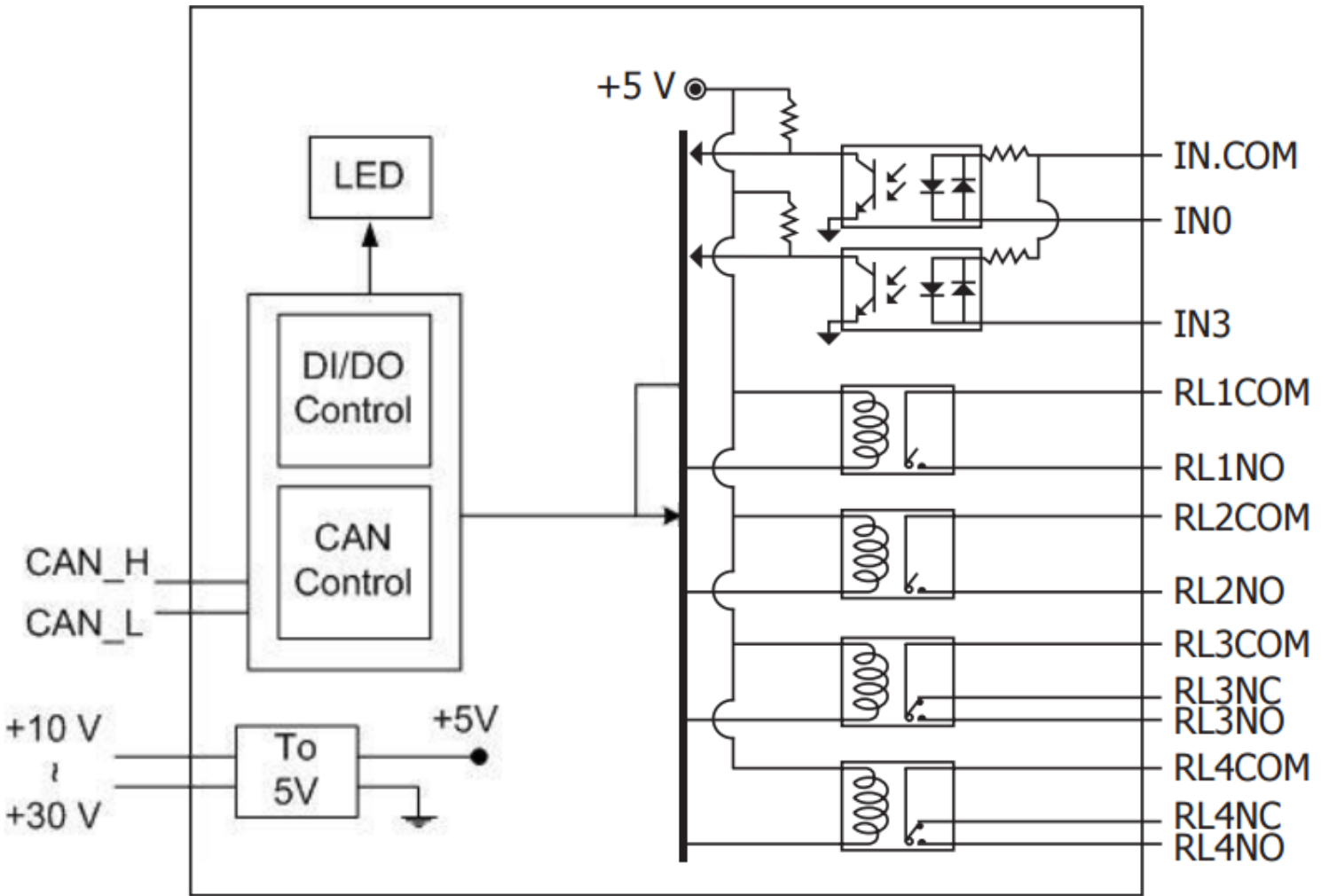
For more information about CAN-2060C, please visit the following website:  
[http://www.icpdas.com/products/Remote\\_IO/can\\_bus/CAN-2060C.htm](http://www.icpdas.com/products/Remote_IO/can_bus/CAN-2060C.htm)

## CAN-2060C Pin Assignments

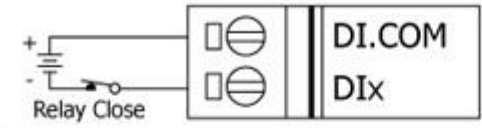
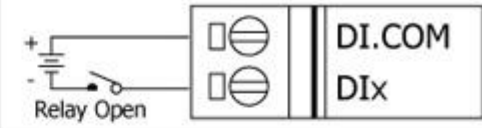
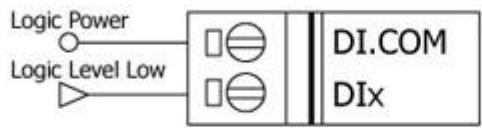
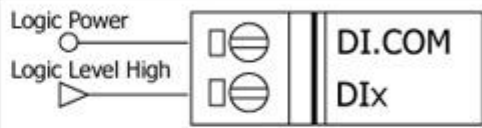
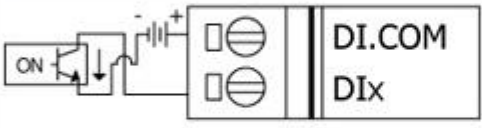
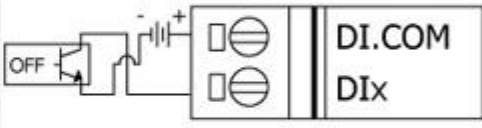
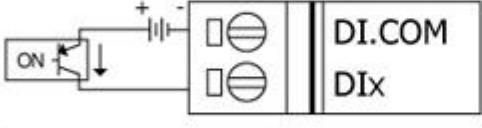
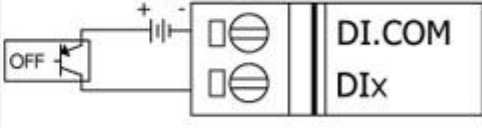
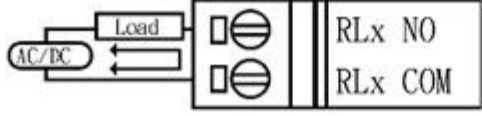
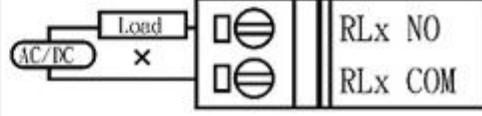


Terminal No.	Pin Assignment
01	DI.COM
02	DI0
03	DI1
04	DI2
05	DI3
06	GND
07	
08	NO0
09	COM0
10	NO1
11	COM1
12	NO2
13	COM2
14	NO3
15	COM3
16	
17	
18	
19	
20	

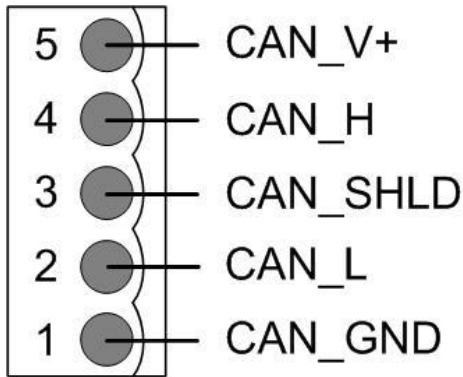
# CAN-2060C Internal I/O Structure



## CAN-2060C Wiring Connection Type

Input Type	ON State LED ON	OFF State LED OFF
Wet Contact	Relay ON	Relay OFF
Relay Contact		
TTL/CMOS Logic	Voltage > 10 V	Voltage < 4 V
TTL/CMOS Logic		
NPN Output	Open Collector ON	Open Collector OFF
NPN Output		
PNP Output	Open Collector ON	Open Collector OFF
PNP Output		
Output Type	ON State LED ON	OFF State LED OFF
Relay	Relay ON	Relay OFF
Relay		

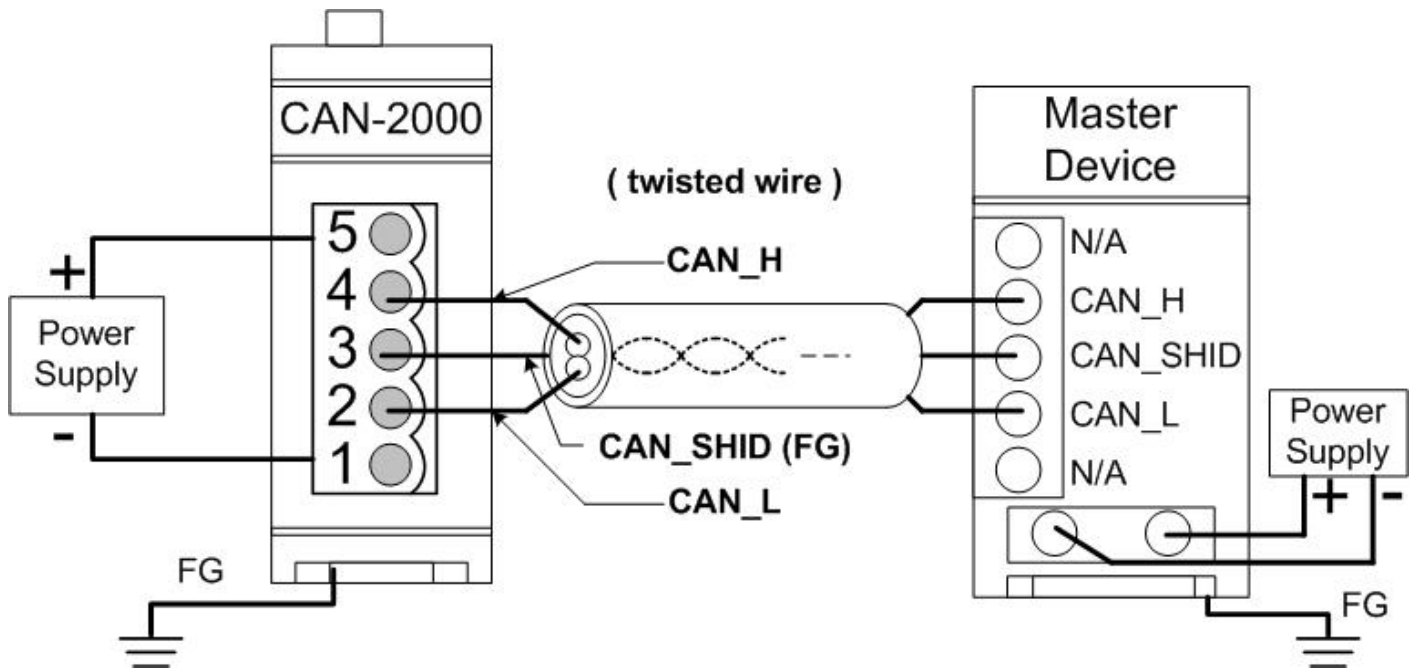
## CAN-2060C CAN Bus Wire Connection



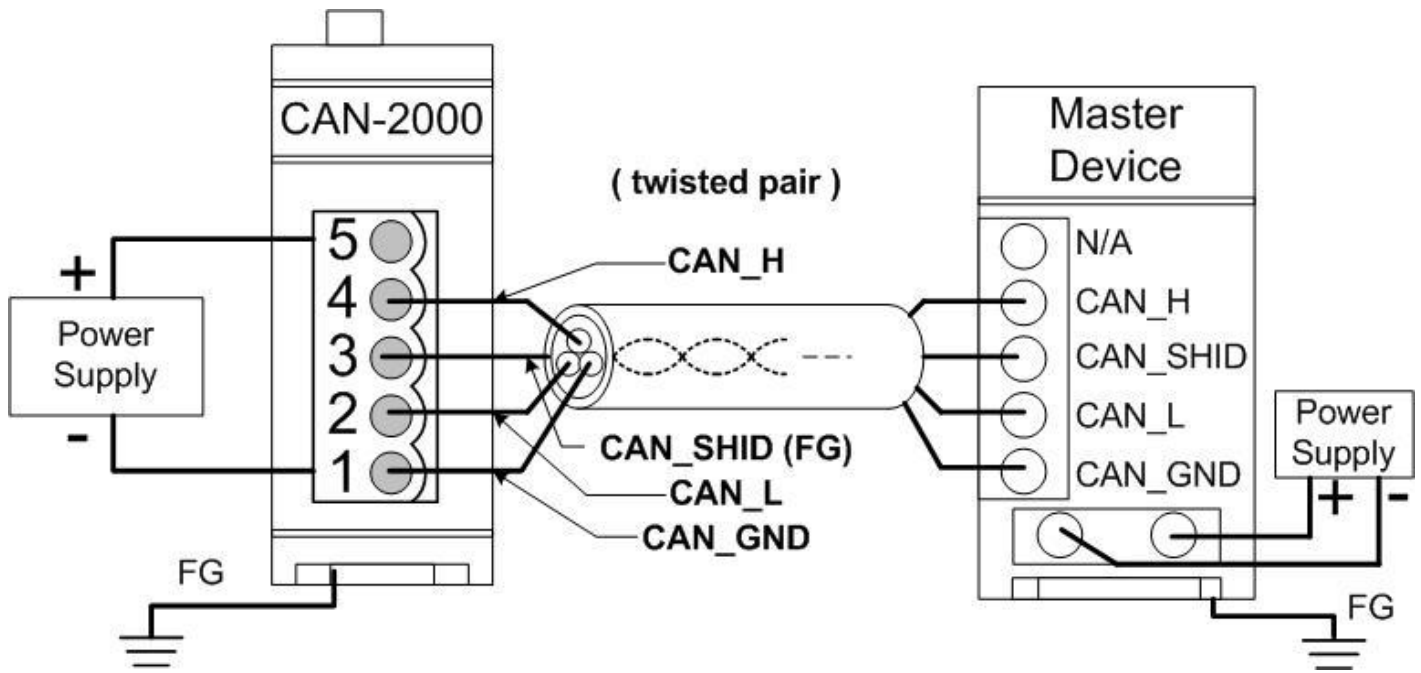
Pin	Signal	Description
5	CAN_V+	Power positive
4	CAN_H	Signal high of CAN Bus line
3	CAN_SHLD	Cable Shield ( <b>FG</b> )
2	CAN_L	Signal low of CAN Bus line
1	CAN_GND	CAN ground

\* CAN\_SHLD (FG) is Optional.

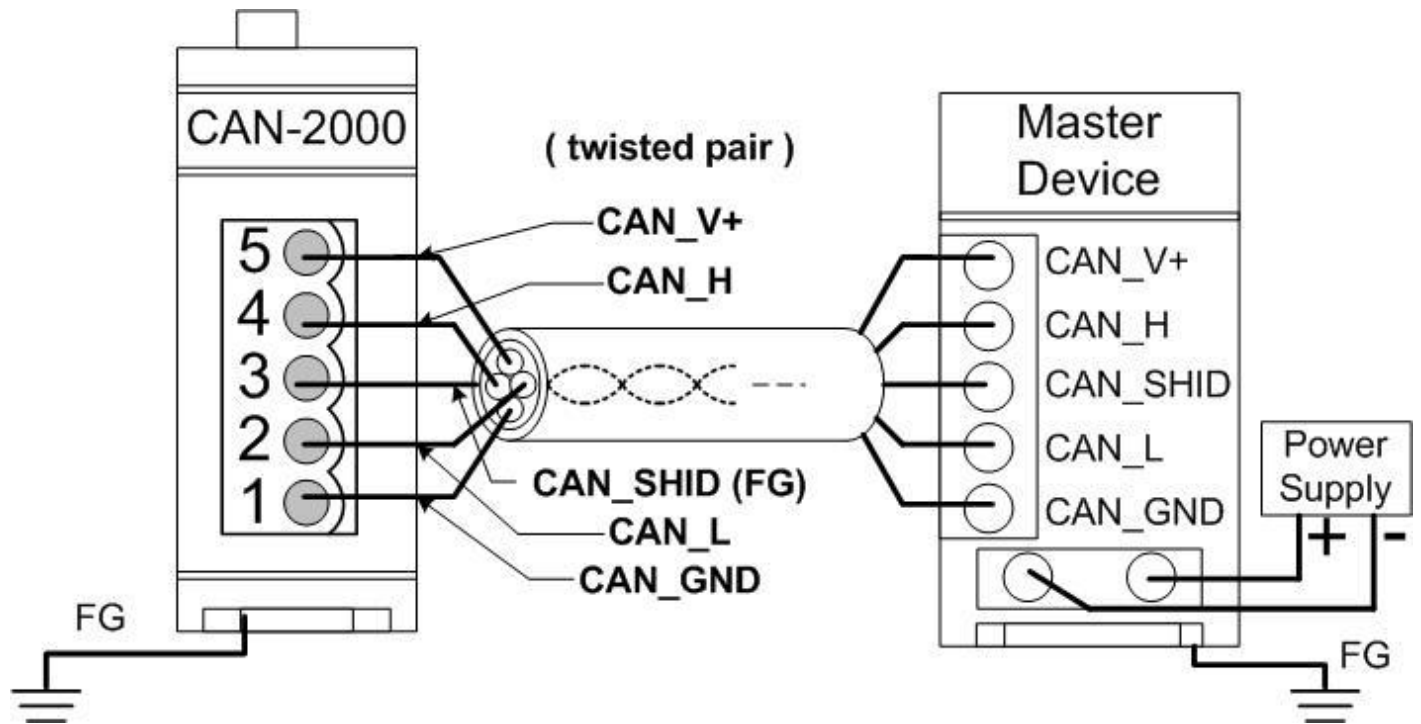
### 2-Wire Connection



### 3-Wire Connection

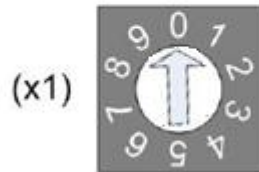
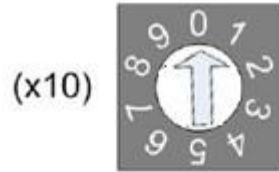


### 4-Wire Connection (The CAN-2000 is powered by the master device)



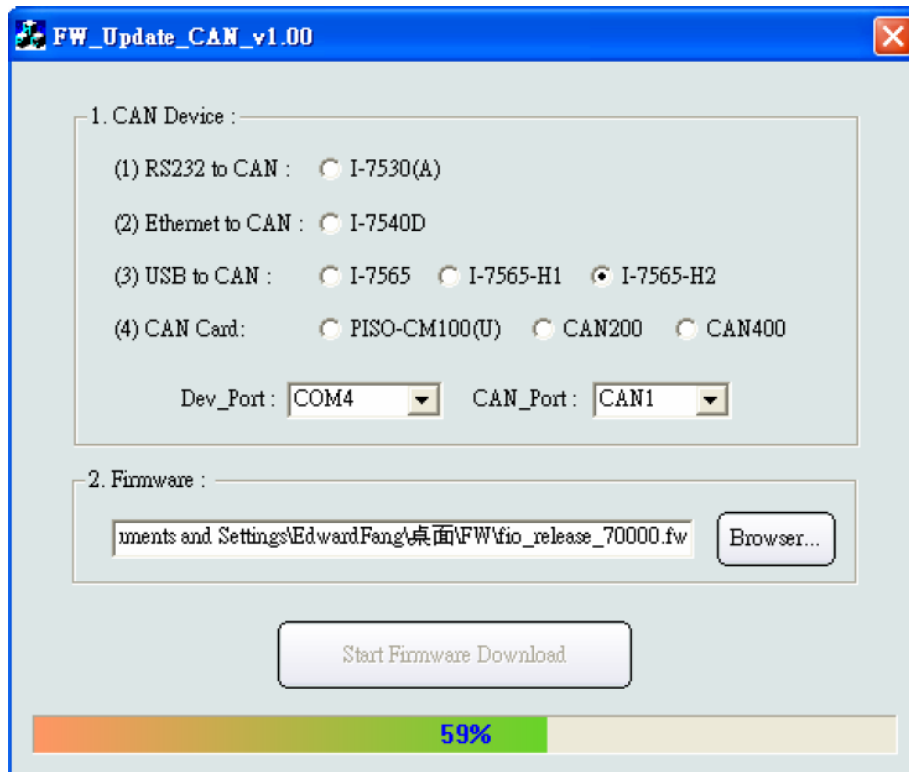
## CAN-2060C Firmware Update

**Step 1 – Set Module to “Bootloader” mode (set Node ID to 00, Baud rate to F). 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\_2060c\_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-2060C firmware Download:

[ftp://ftp.icpdas.com/pub/cd/fieldbus\\_cd/canopen/slave/can-2000c/CAN-2060C/](ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/CAN-2060C/)

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/)