

# CAN-2057C Quick Start

## [ Package List ]



CAN-2057C



Software CD



Screw Driver  
(1C016)



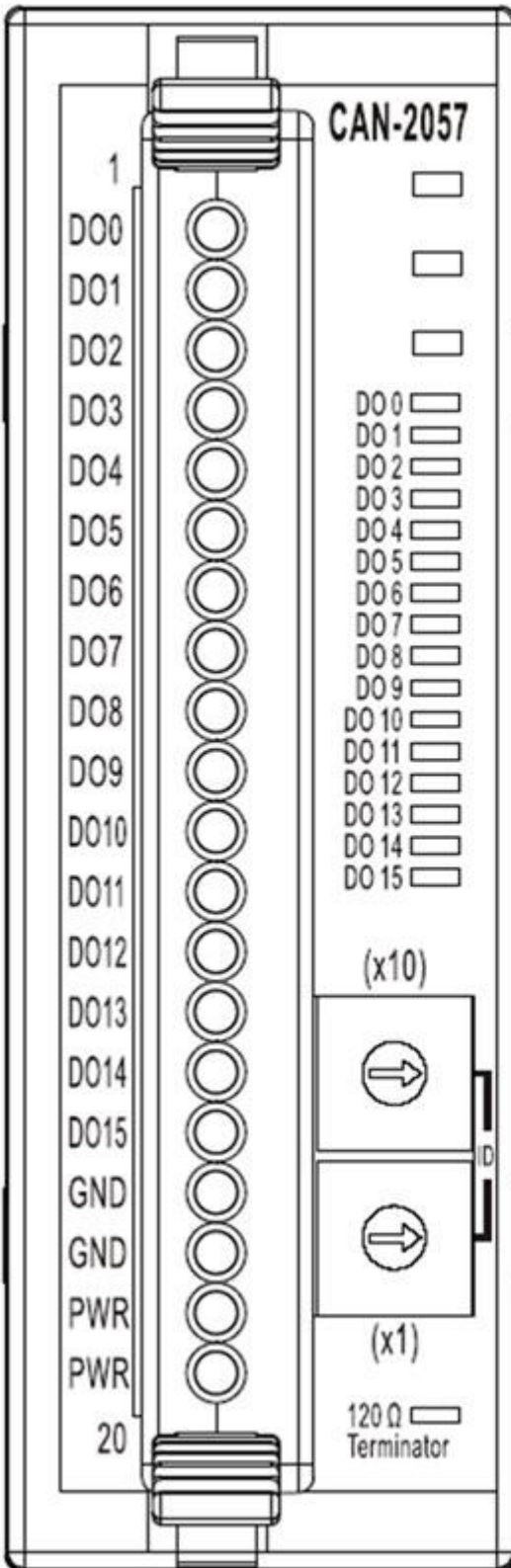
Quick Start

## Hardware Specification

<b>CAN Interface</b>	
CANopen Specification	CiA DS-301 v4.02, DS-401 v2.1
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 Output</b>	
Channels	16 (Sink)
Load Voltage	5 ~ 30 V <sub>DC</sub>
Max. Load Current	100mA per channel
Output Type	Open-collector
Reaction Time	150us
Intra-module Isolation	3750Vrms
ESD Protection	+/-4 kV, Contact for each channel
<b>Power</b>	
Input range	Unregulated +10 ~ +30 V <sub>DC</sub>
<b>Environment</b>	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

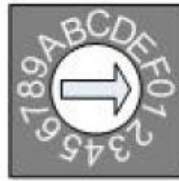
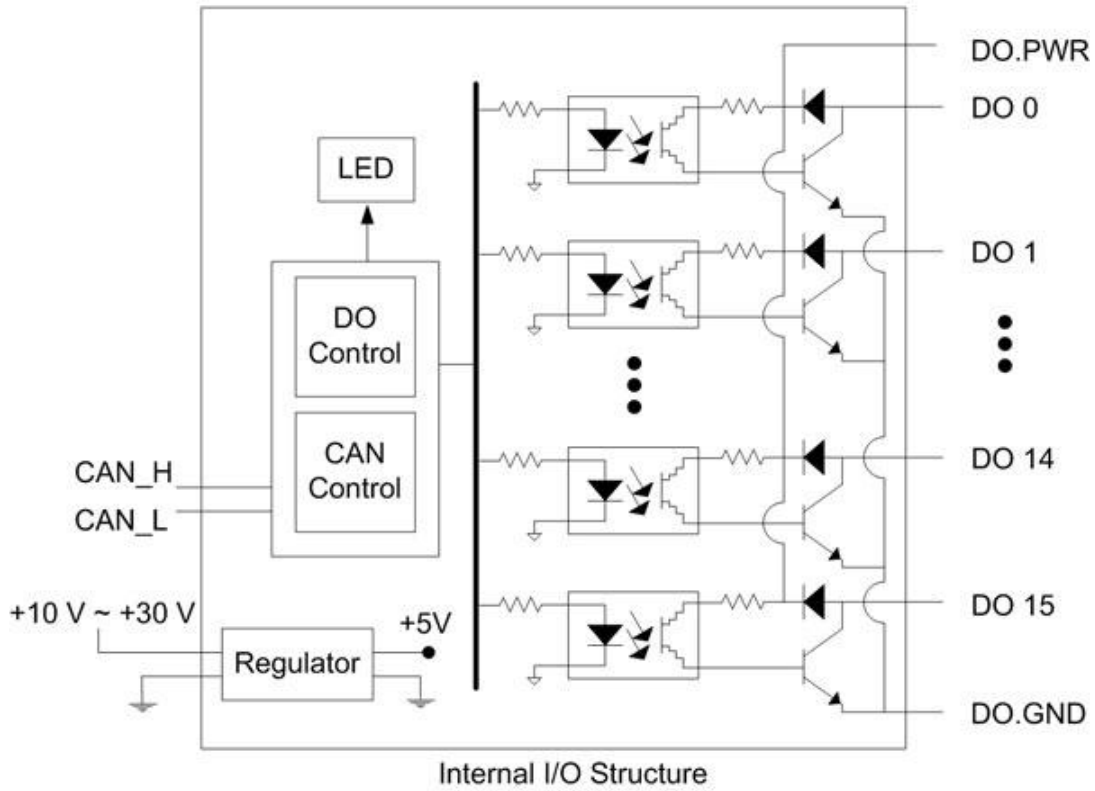
For more information about CAN-2057C, please visit the following website:  
[http://www.icpdas.com/products/Remote\\_IO/can\\_bus/can-2057c.htm](http://www.icpdas.com/products/Remote_IO/can_bus/can-2057c.htm)

## CAN-2057C Pin Assignments



Terminal No.	Pin Assignment
01	DO.0
02	DO.1
03	DO.2
04	DO.3
05	DO.4
06	DO.5
07	DO.6
08	DO.7
09	DO.8
10	DO.9
11	DO.10
12	DO.11
13	DO.12
14	DO.13
15	DO.14
16	DO.15
17	DO.GND
18	DO.GND
19	DO.PWR
20	DO.PWR

# CAN-2057C 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

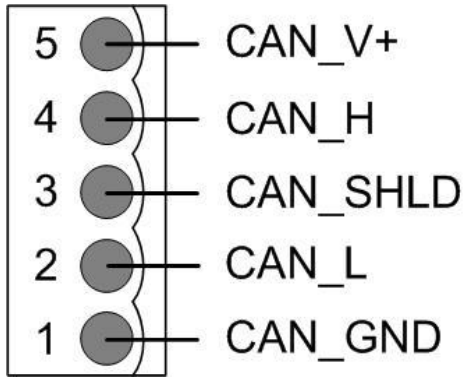
**Baud rate and rotary switch**

## CAN-2057C Wiring Connection Type

Module Name	CAN-2057C	
Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Drive Relay	Relay Off	Relay On
Resistance Load		

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

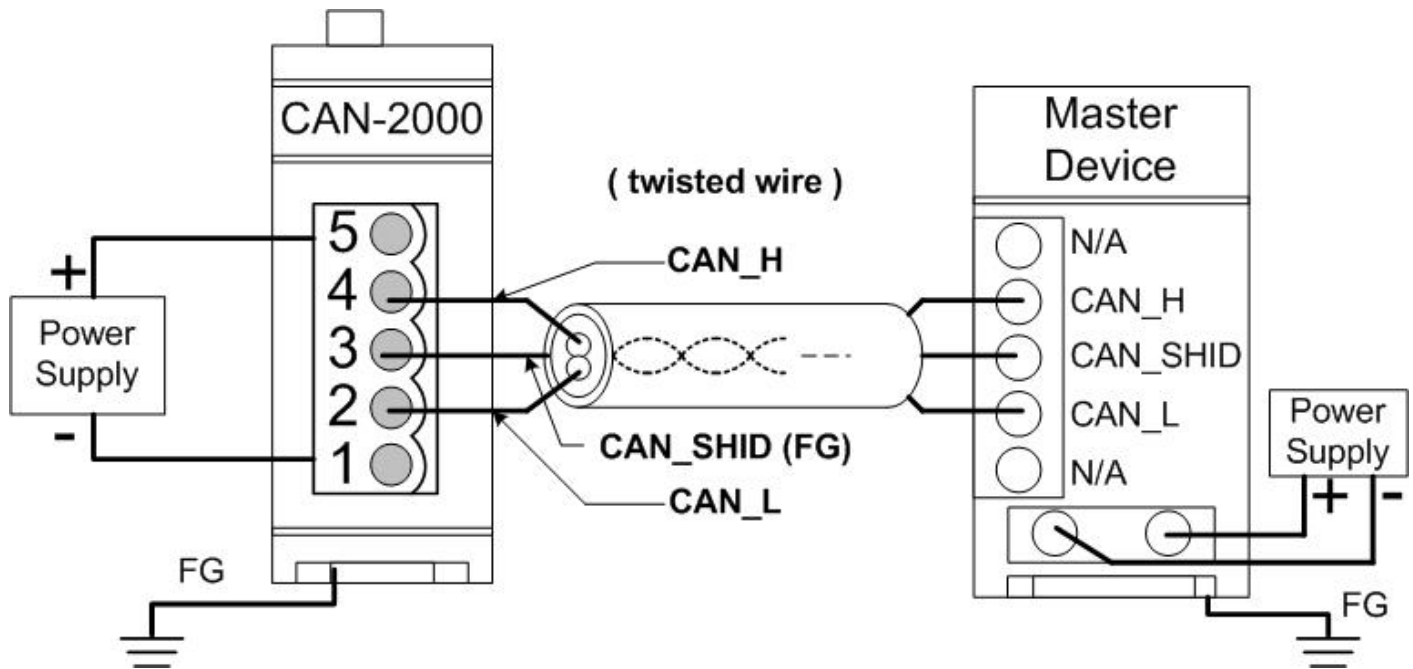
## CAN-2057C CAN Bus Wire Connection



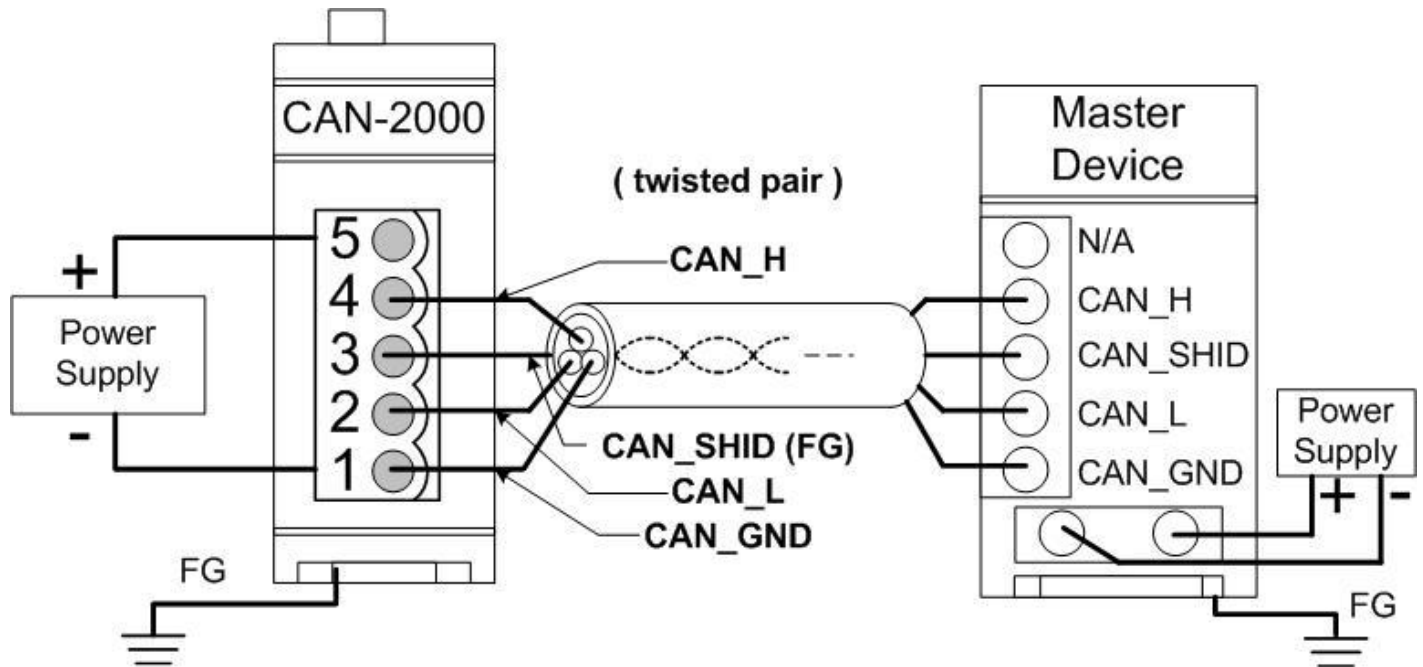
Pin	Signal	Description
5	CAN_V+	Power positive
4	CAN_H	Signal high of CAN Bus line
3	CAN_SHLD	Cable Shield ( <b>FG</b> )
2	CAN_L	Signal low of CAN Bus line
1	CAN_GND	CAN ground

\* CAN\_SHID (FG) is Optional.

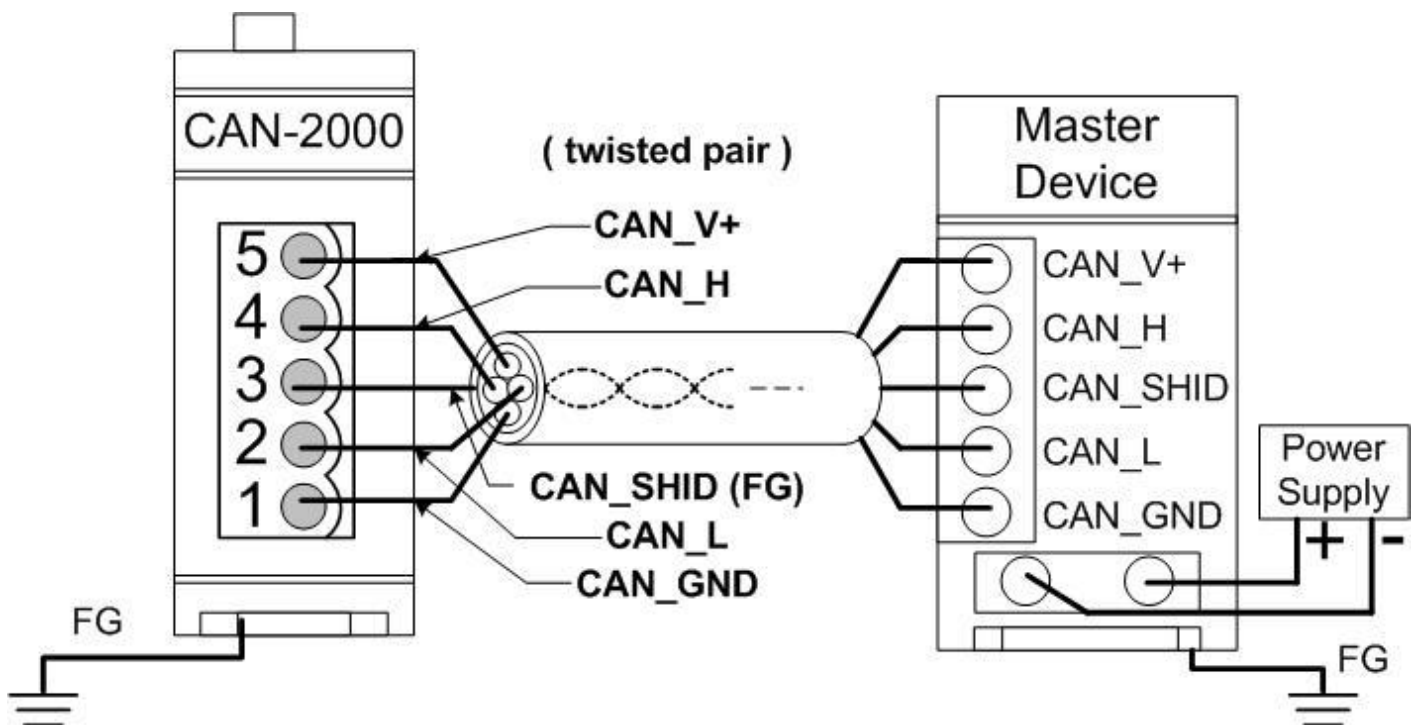
### 2-Wire Connection



### 3-Wire Connection

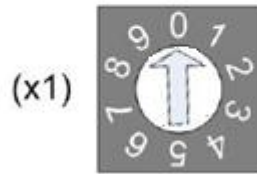
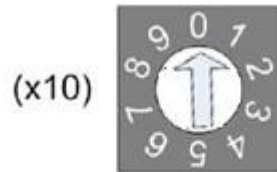


### 4-Wire Connection (The CAN-2000 is powered by the master device)



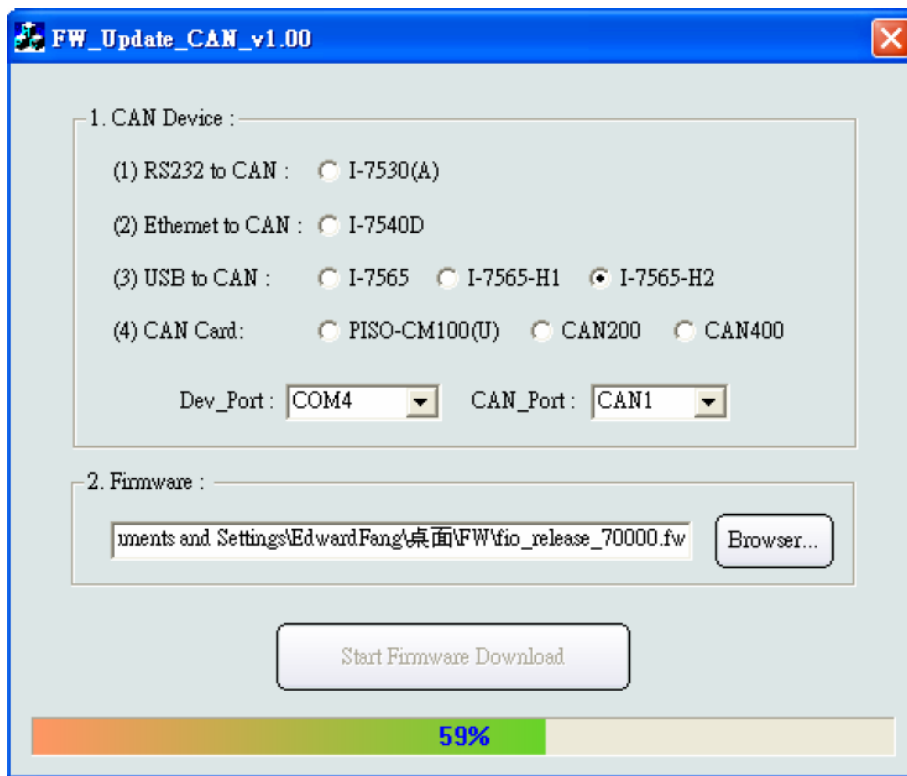
## CAN-2017C Firmware Update

**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\_2057c\_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-2057C firmware Download:

[ftp://ftp.icpdas.com/pub/cd/fieldbus\\_cd/canopen/slave/can-2000c/can-2057c/](ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/can-2057c/)

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/)