

CAN-2018D Quick Start

Packing List

CAN-2018D



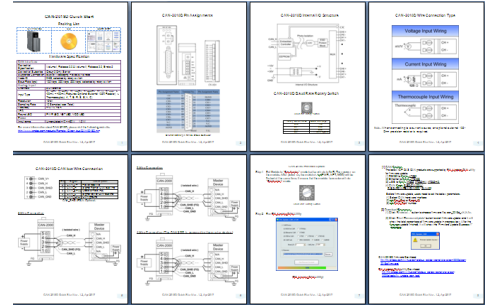
CD



Screw Driver



Quick Start



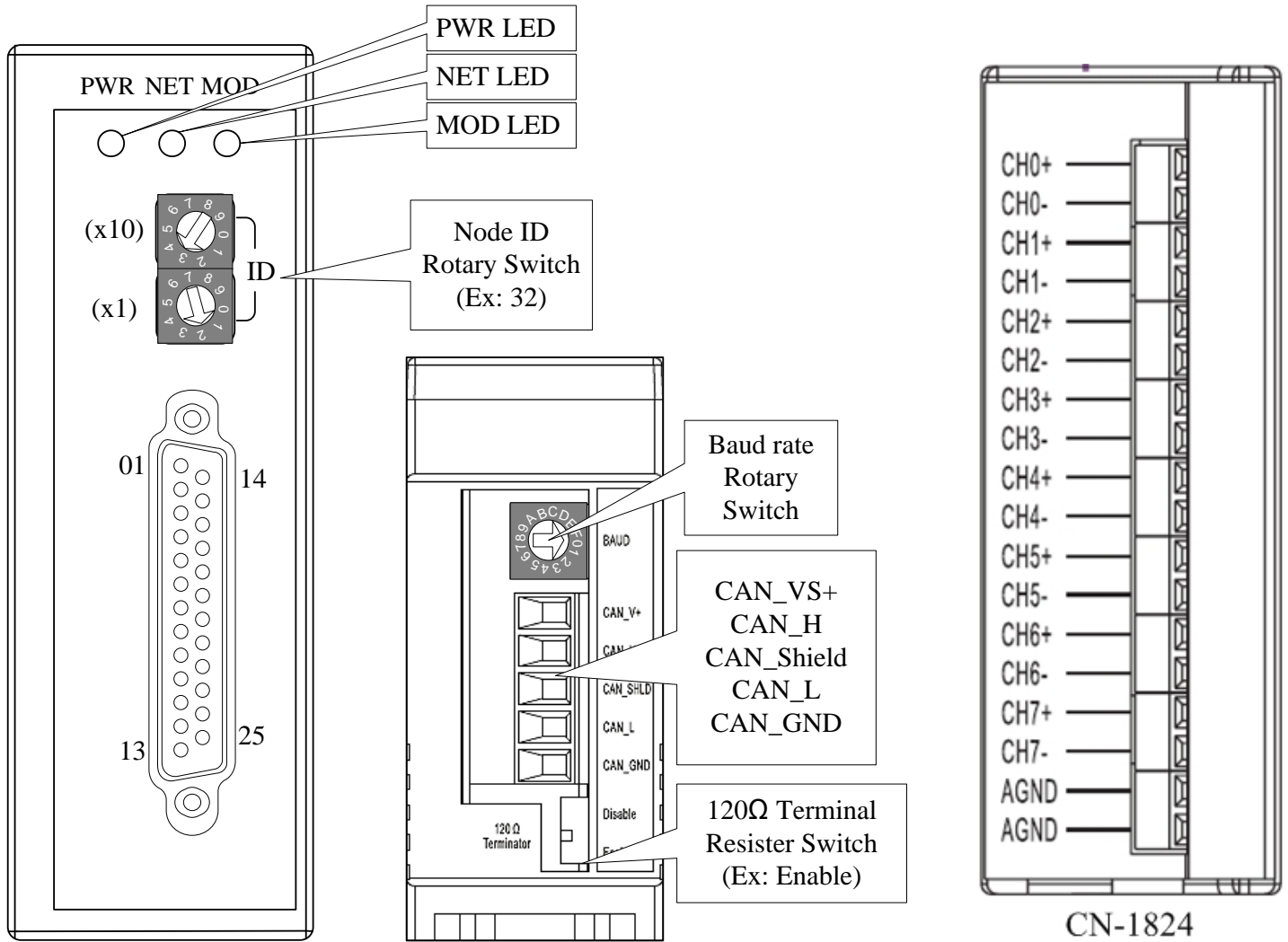
Hardware Specification

| CAN Interface | |
|-------------------------|--|
| DeviceNet Specification | Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5 |
| DeviceNet Subscribe | Group 2 Only Server |
| Supported Connection | Explicit Messaging, Polled, Bit-Strobe |
| Node ID | 0~63, selected by rotary switch |
| Baud Rate (bps) | 125 kbps, 250 kbps, 500 kbps, selected by rotary switch |
| Analog Input | |
| Channels | 8 Differential |
| Input Type | +/- 15mV, +/- 50mV, +/- 100mV, +/- 500mV, +/- 1V, +/- 2.5V -20mA ~ +20mA(Requires Optional External 125Ω Resistor) Thermocouple(J, K, T, E, R, S, B, N, C) |
| Resolution | 16-bit |
| Sampling Rate | 10 Samples/ sec (Total) |
| Accuracy | +/-0.1% FSR |
| LED | |
| Round LED | PWR LED, NET LED, MOD LED |
| Power | |
| Input range | Unregulated +10 ~ +30 V _{DC} , 1.5 W |

For more information about CAN-2018D, please visit the following website:

[CAN-2018D](#)

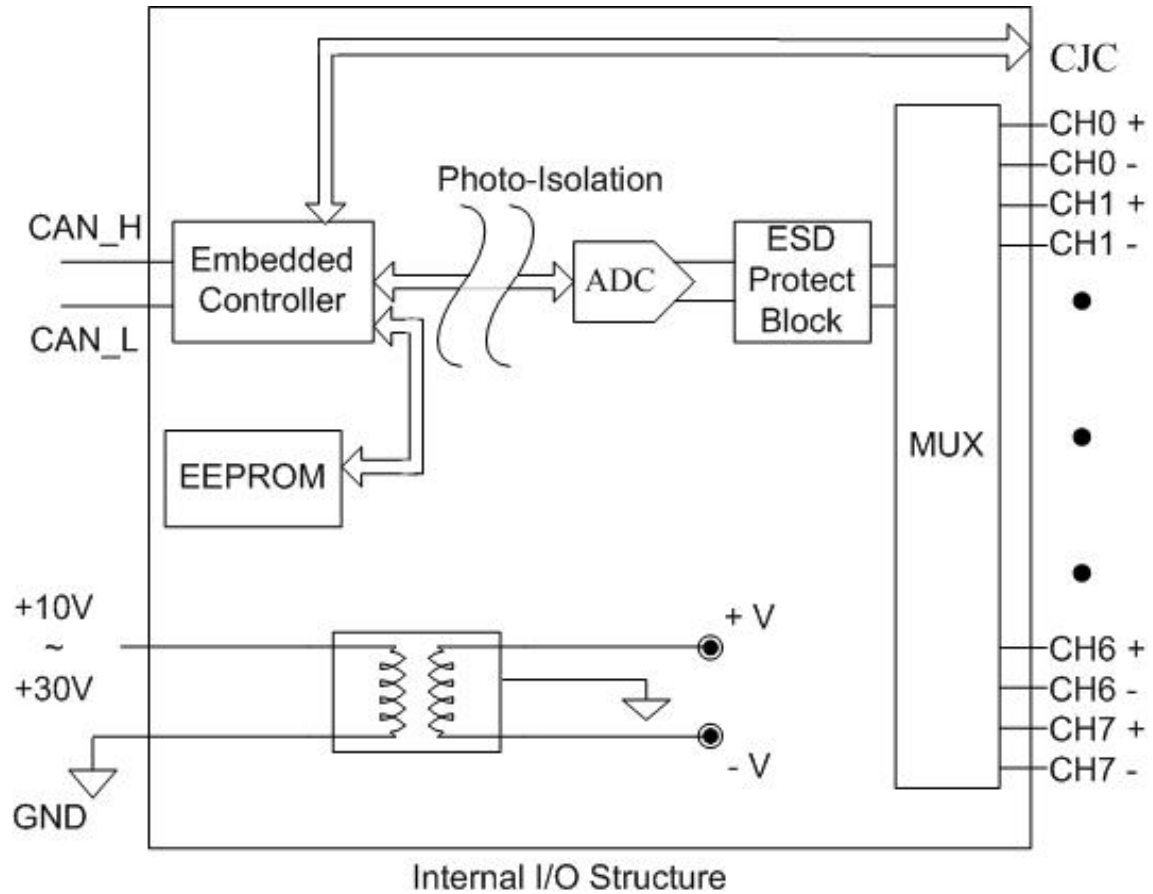
CAN-2018D Pin Assignments



| Pin Assignment Name | Terminal No. | Pin Assignment Name |
|---------------------|--------------|---------------------|
| +5V | 01 | DGND |
| CJC | 02 | CH0+ |
| CH0- | 03 | CH1+ |
| CH1- | 04 | CH2+ |
| CH2- | 05 | CH3+ |
| CH3- | 06 | CH4+ |
| CH4- | 07 | CH5+ |
| CH5- | 08 | CH6+ |
| CH6- | 09 | CH7+ |
| CH7- | 10 | N.C. |
| N.C. | 11 | N.C. |
| N.C. | 12 | AGND |
| AGND | 13 | |
| | | Shield |
| | | F.G. |

CAN-2018D 25-pin Female D-Sub Connector

CAN-2018D Internal I/O Structure



CAN-2018D Baud Rate Rotary Switch

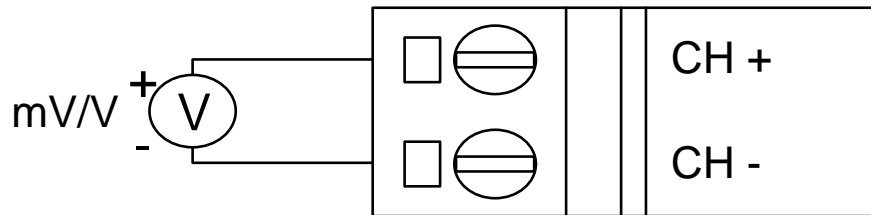


Baud rate rotary switch

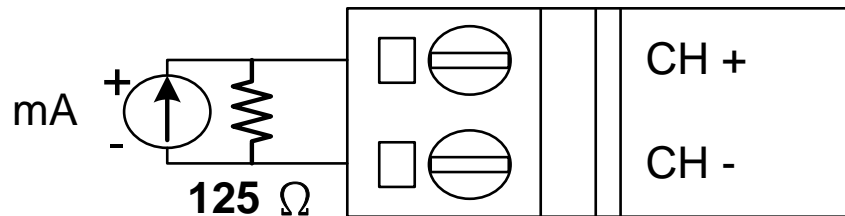
| Rotary Switch Value | Baud rate (kbps) |
|---------------------|------------------|
| 0x0 | 125 |
| 0x1 | 250 |
| 0x2 | 500 |
| 0xF | Firmware update |

CAN-2018D Wire Connection Type

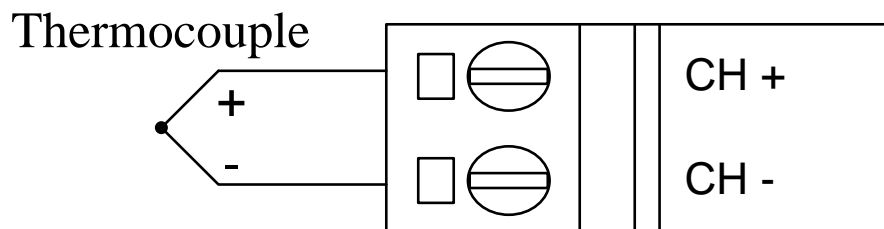
Voltage Input Wiring



Current Input Wiring

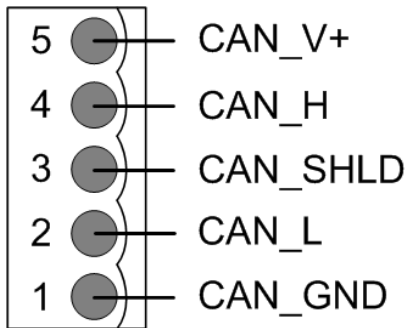


Thermocouple Input Wiring



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

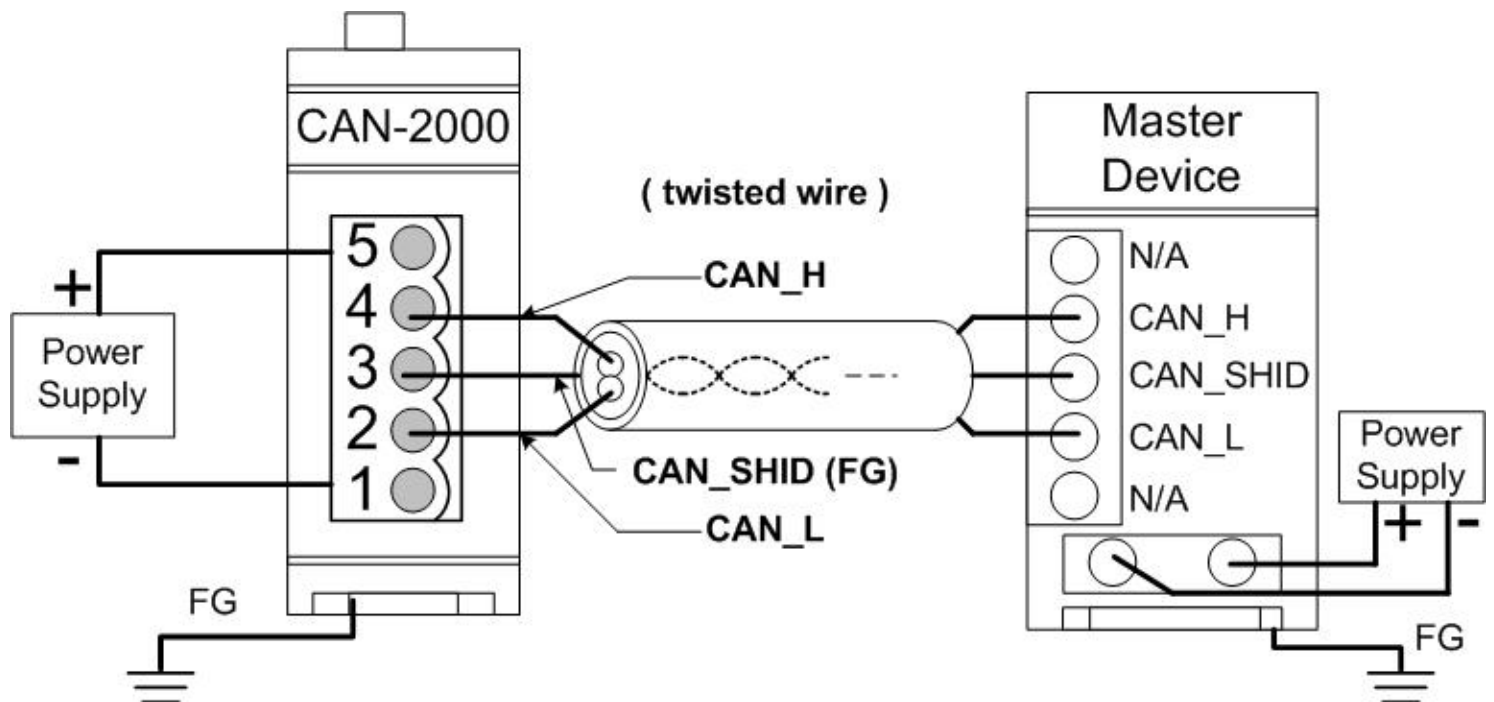
CAN-2018D CAN bus Wire Connection



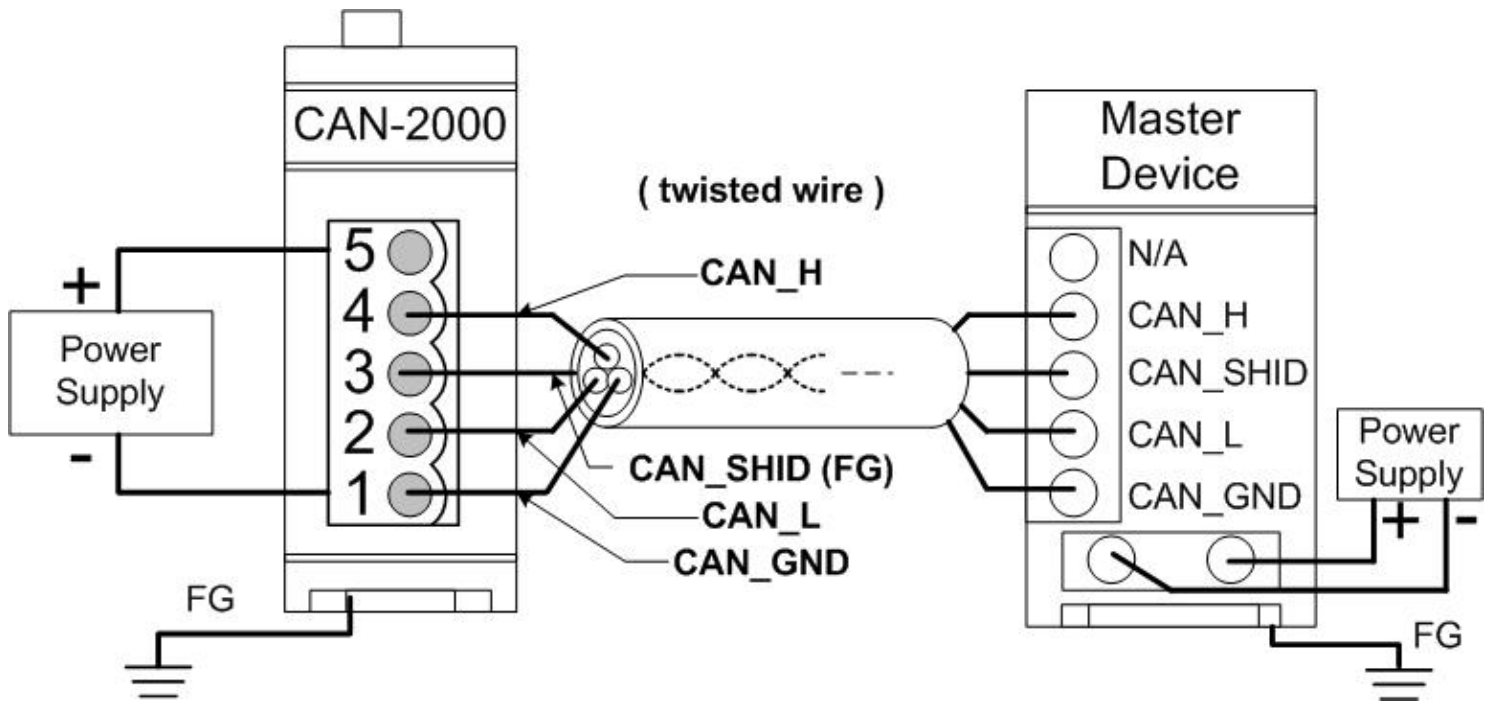
| Pin | Signal | Description |
|-----|----------|-----------------------------|
| 5 | CAN_V+ | Power positive |
| 4 | CAN_H | Signal high of CAN bus line |
| 3 | CAN_SHLD | Cable Shield (FG) |
| 2 | CAN_L | Signal low of CAN bus line |
| 1 | CAN_GND | CAN ground |

* CAN_SHID (FG) is Optional.

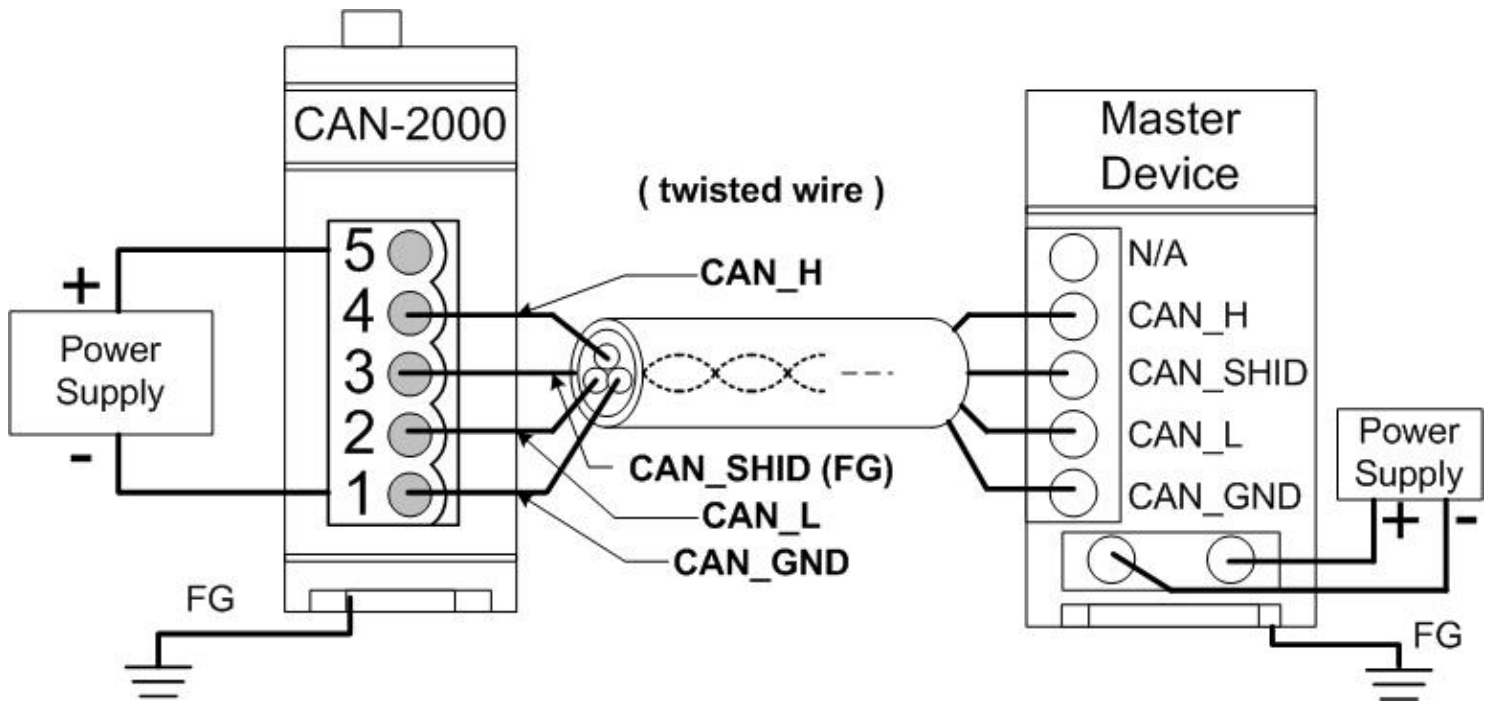
2-Wire Connection



3-Wire Connection

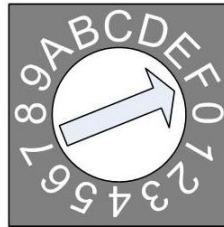


4-Wire Connection (The CAN-2000 is powered by the master device)



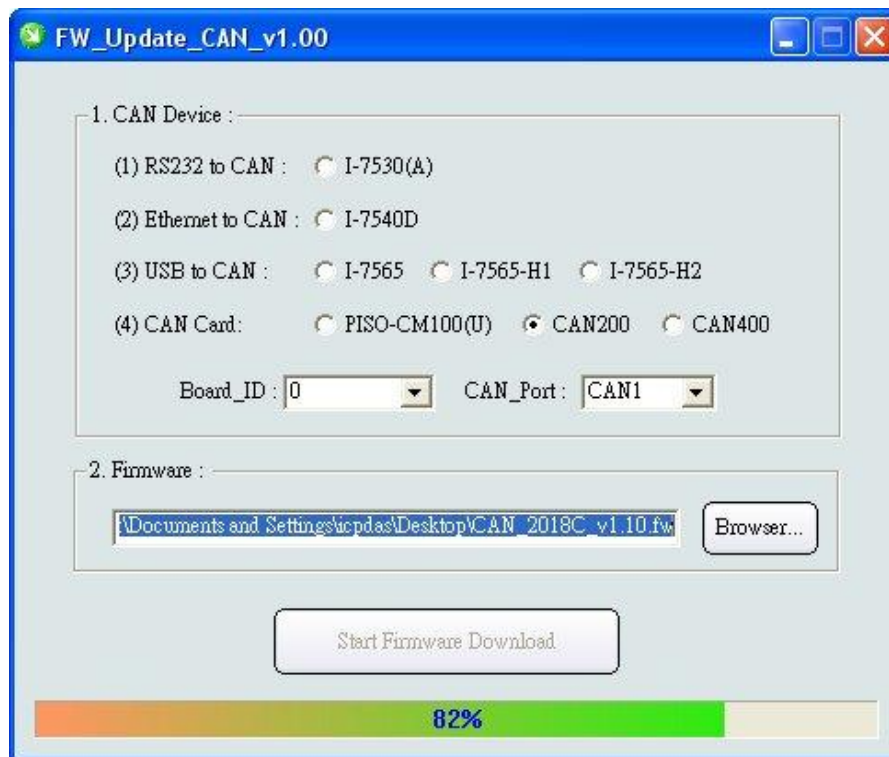
CAN-2018D Firmware Update

Step 1 – Set Module to “Bootloader” mode (set baud rate to 0xF). Then power on the module. After power on, the module’s led(PWR, NET, MOD) will be flashed at the same time. It means that the module have entered into “Bootloader” mode.



Baud Rate 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.

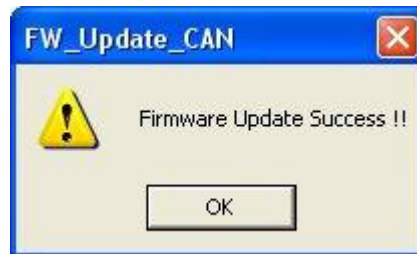
- (1) RS232 to CAN : I-7530
- (2) Ethernet to CAN : I-7540D
- (3) USB to CAN : I-7565, I-7565-H1, I-7565-H2
- (4) CAN Card : PISO-CM100(U),
PISO-/PCM-/PEX-CAN200 / CAN400

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_2018d_vX.X.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-2018D firmware Download:

ftp://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/devicenet/slave/can-2000d/can-2018d/firmware/

FW_Update_CAN Utility Download:

ftp://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/devicenet/slave/can-2000d/tools/fw_update_can_tool/