CAN-2019C Quick Start

[Package List]

CAN-2019C

Software CD

Screw Driver
(1C016)

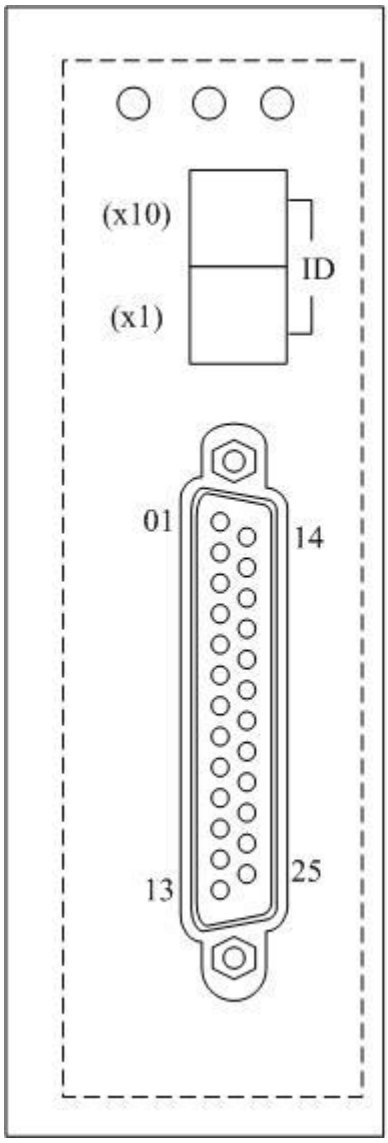
Quick Start

Hardware Specification

CAN Interface	
CANopen Specification	CiA-301 v4.02, CiA -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 Ω terminator resistor
Connector	5-pin screwed terminal block (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+)
Analog Input	
Channels	10
Input Type	Voltage : ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, ±10 V Current : ±20 mA (External resistor is required) Thermocouple : J, K, T, E, R, S, B, N, C
Resolution	16-bit
Accuracy	±0.1% FSR
Sampling Rate	10 Hz (Total)
Overvoltage protection	240 Vrms
Power	
Input range	Unregulated +10 ~ +30 V_{DC}
Power Consumption	1.5W
Environment	
Operating Temp.	-25 ~ 75 ℃
Humidity	10 ~ 90% RH, non-condensing

For more information about CAN-2019C, please visit the following website:
http://www.icpdas.com/products/Remote_IO/can_bus/CAN-2019C.htm

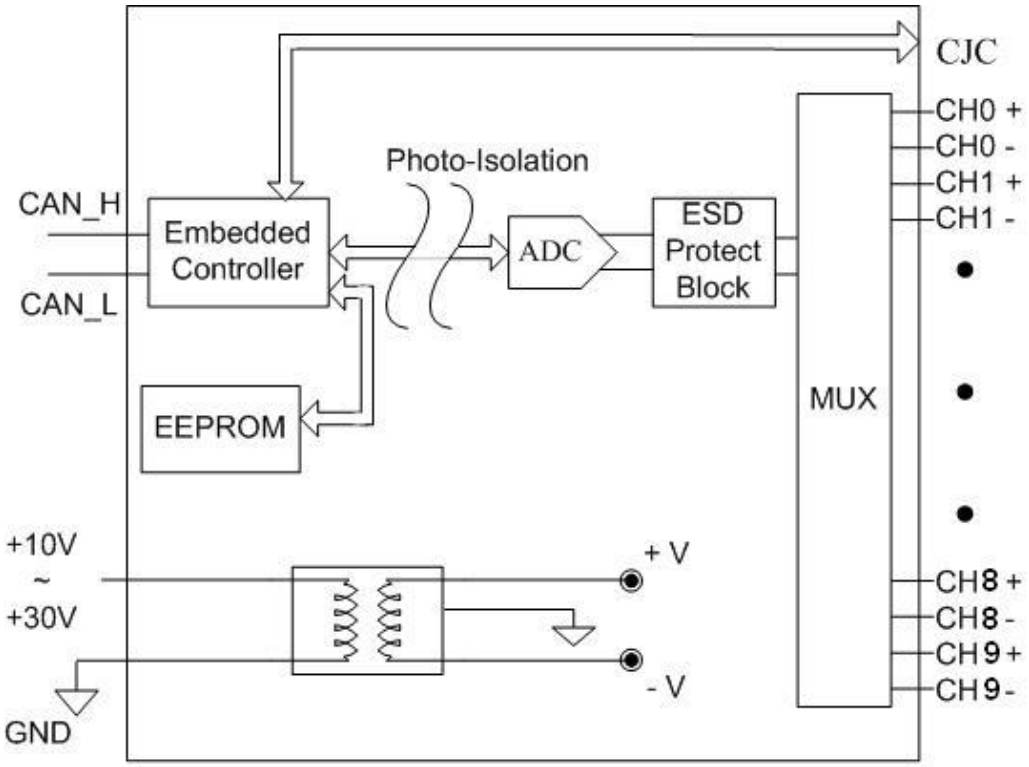
CAN-2019C Pin Assignments



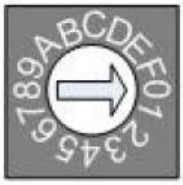
Pin Assignment Name	Terminal No.		Pin Assignment Name
+5V	01	14	DGND
CJC	02	15	CH0+
CH0-	03	16	CH1+
CH1-	04	17	CH2+
CH2-	05	18	CH3+
CH3-	06	19	CH4+
CH4-	07	20	CH5+
CH5-	08	21	CH6+
CH6-	09	22	CH7+
CH7-	10	23	CH8+
CH8-	11	24	CH9+
CH9-	12	25	AGND
AGND	13		
		Shield	F.G.

25-pin Female D-Sub Connector

CAN-2019C Internal I/O Structure



Internal I/O Structure

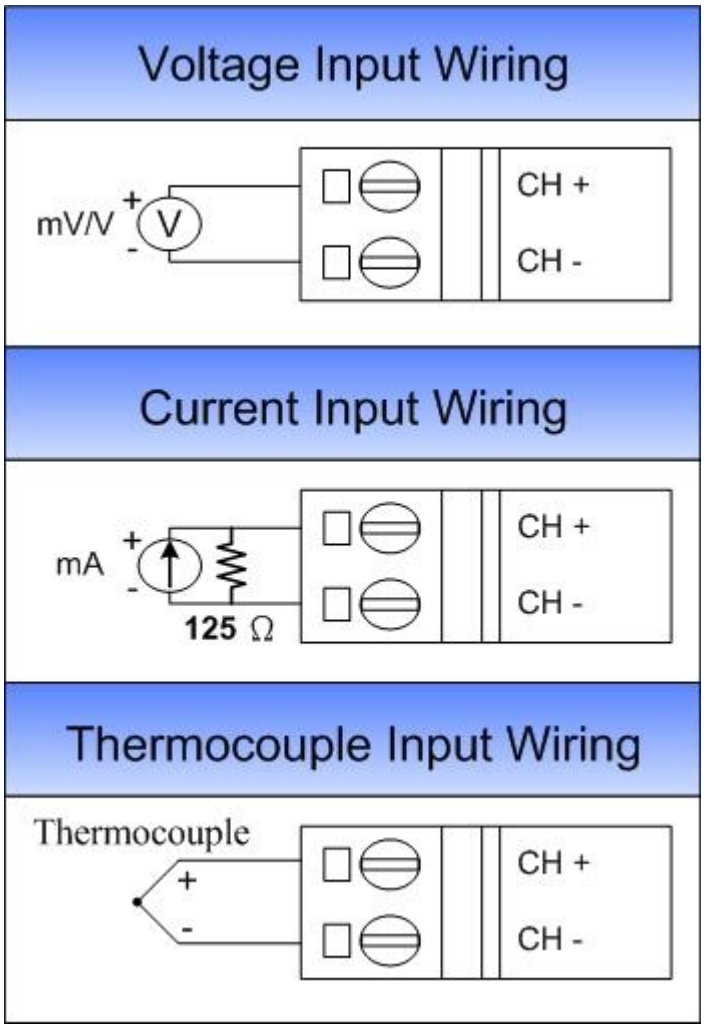


Baud rate rotary switch

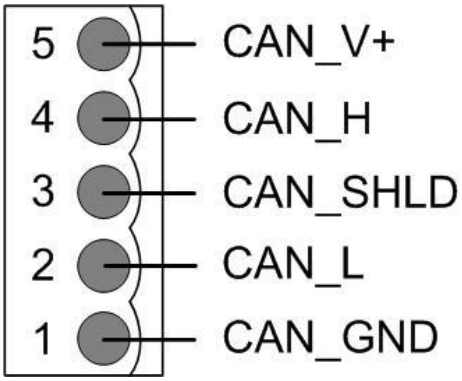
Rotary Switch Value	Baud rate (k BPS)
0	10
1	20
2	50
3	125
4	250
5	500
6	800
7	1000

Baud rate and rotary switch

CAN-2019C Wiring Connection Type



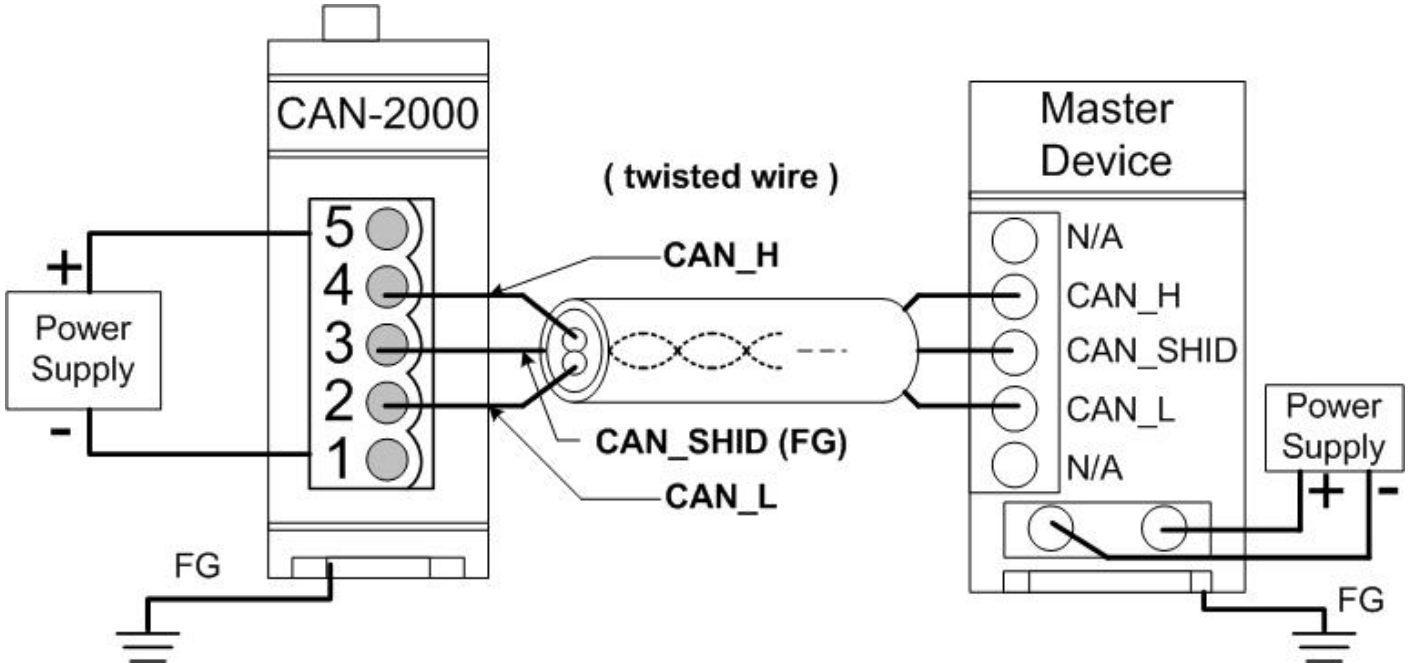
CAN-2019C CAN Bus Wire Connection



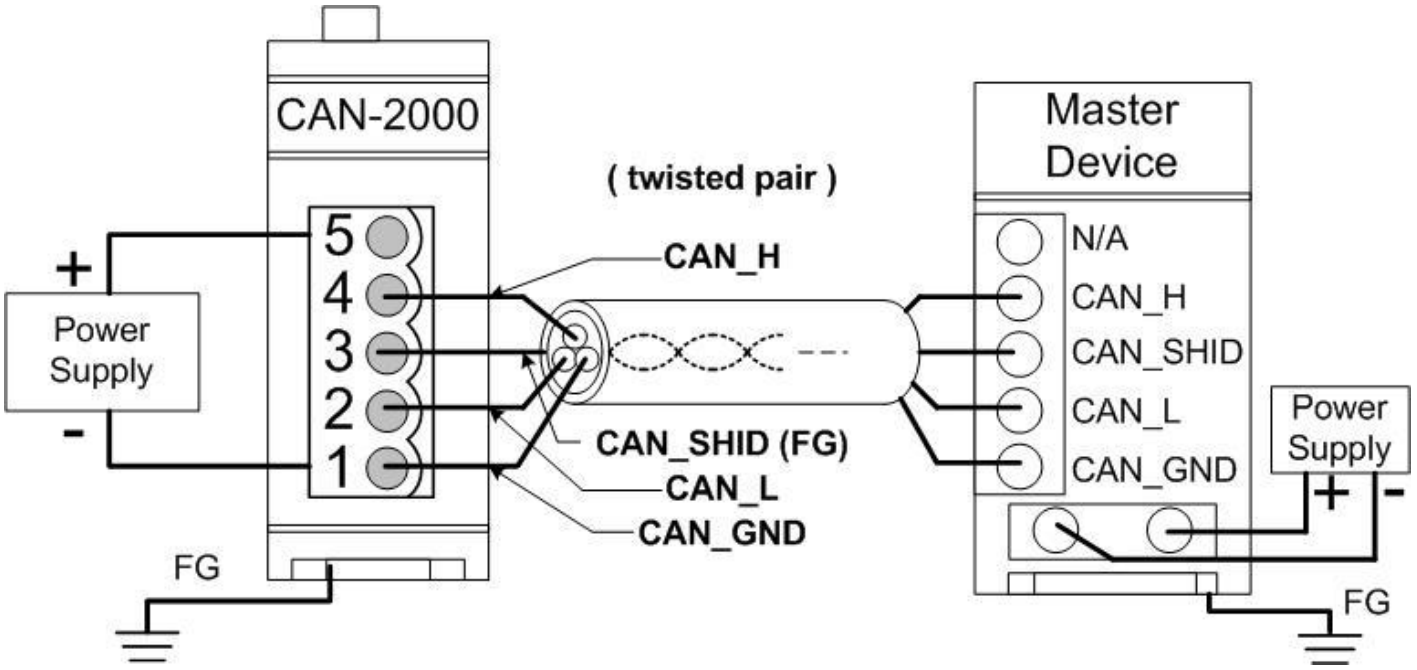
Pin	Signal	Description
5	CAN_V+	Power positive
4	CAN_H	Signal high of CAN Bus line
3	CAN_SHLD	Cable Shield ***(FG)***
2	CAN_L	Signal low of CAN Bus line
1	CAN_GND	CAN ground

*** CAN_SHID (FG) is Optional.**

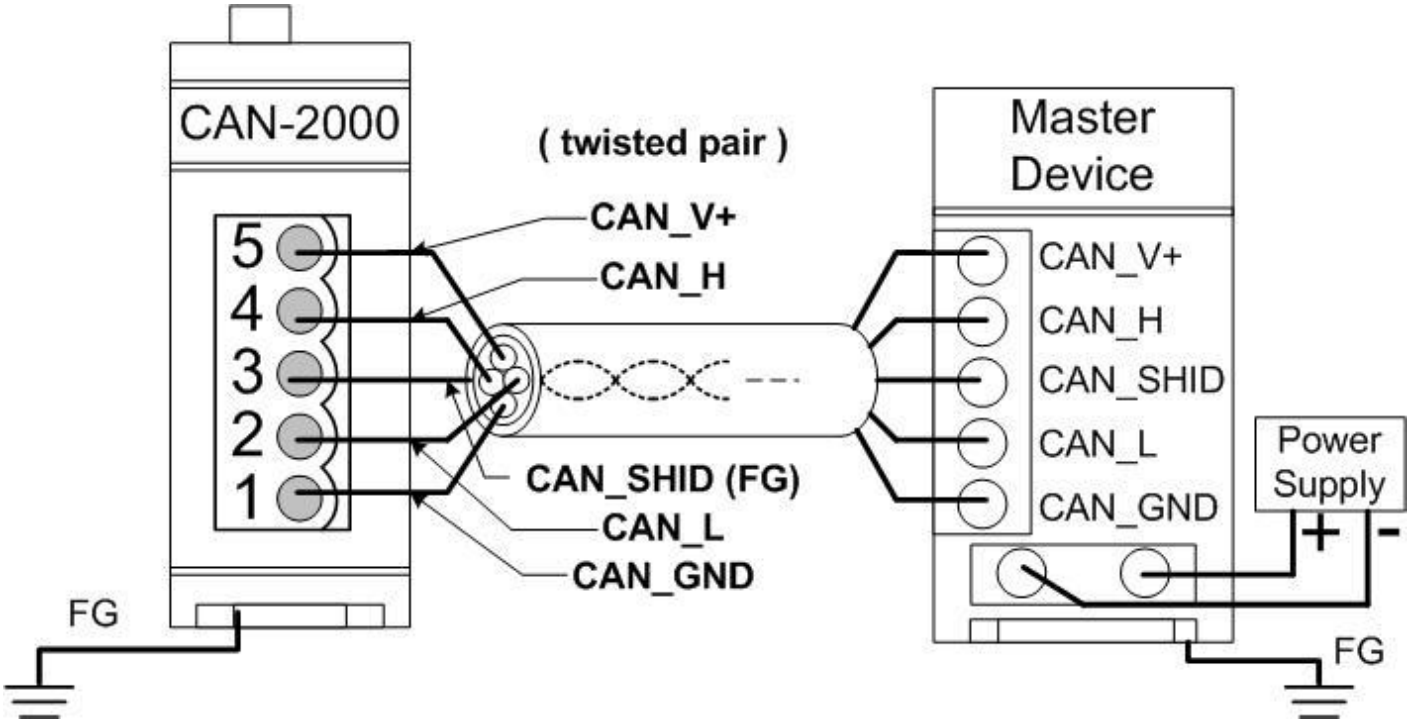
2-Wire Connection



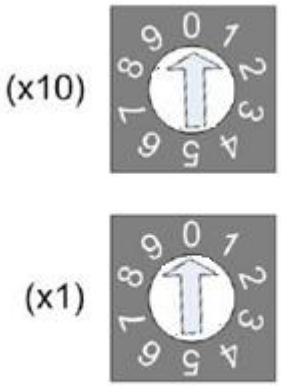
3-Wire Connection



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

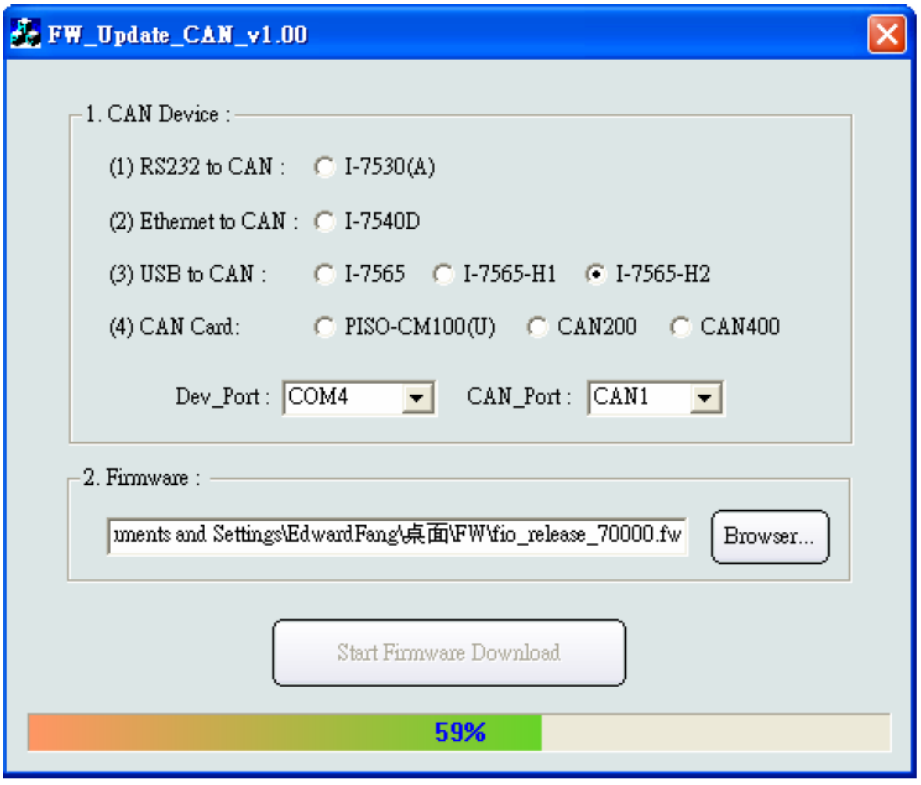


Step 1 – Set Module to "Bootloader" mode (set Node ID to 00, Baud rate to F). Then power on the module.



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_2019c_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-2019C firmware Download:

ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/CAN-2019C/

FW_Update_CAN Utility Download:

ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/tools/