CAN-2000C FAQ

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Q1. When I set PDO Event Timer to let PDO message auto responses per 1 second and it really work. But if I reboot the CANopen slave module and the setting would gone. How can I save this configuration?

A:

User can use object 0x1010 to save this configuration. After set the PDO Event Timer, user must use SDO protocol to set object 0x1010 with save command and it can save all communication and I/O parameter configuration (for detail please refer to can-20xxc_user_manual section 3.2 "Store and Restore Object"). To do this, when the slave module is rebooted and into Operational Mode, the PDO will work with the Event Timer setting.

(2013/12/06, Ming)

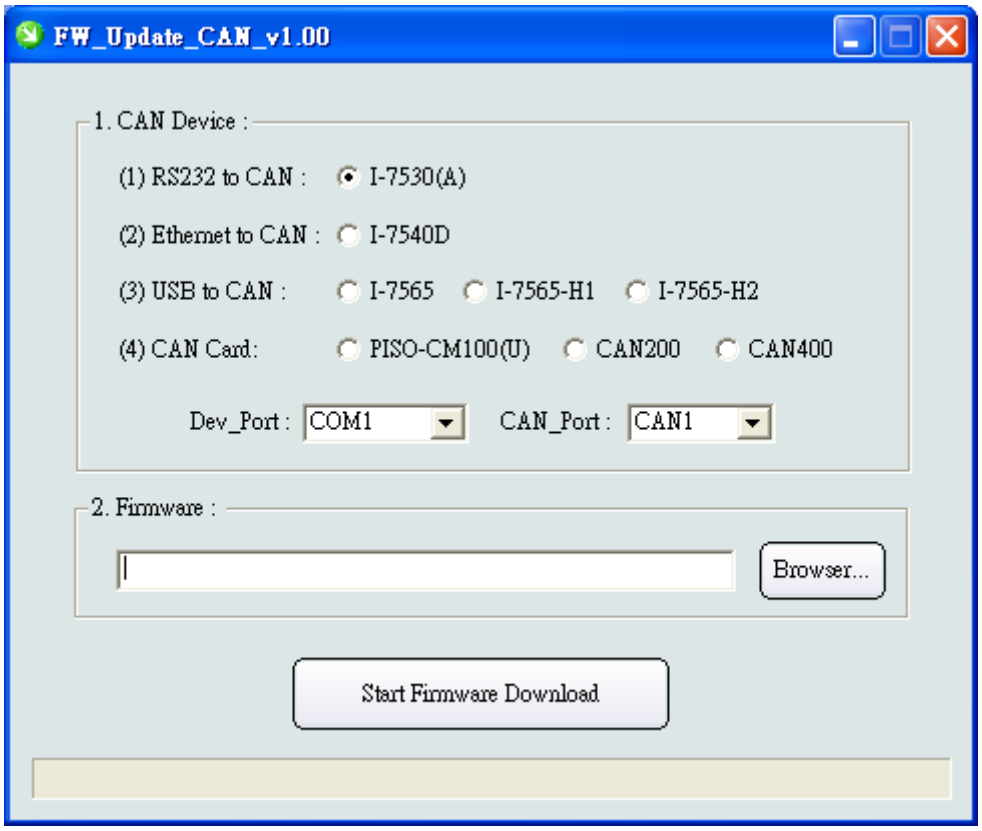
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Q2. How can I update the firmware on my CAN-2000C module?

A:

First you must to check that if your module supported firmware update by CAN bus. You need only adjust the Node ID rotary switch to 0 and boot the module. If it supports, the 3 status LEDs on the module will polling flash and into firmware update mode. Now please execute "fw_update_can.exe" (http://ftp.icpdas.com/pub/cd/fieldbus_cd/canopen/slave/can-2000c/tools/fw_update_can_tool/) and refer to the "fw_update_can_vxx.pdf" document to select suitable CAN converter to update firmware. If your slave module not support firmware update function or you have no any ICP DAS CAN converter, please contact your sales.

* The fw_update_can.exe supports CAN converter and CAN card：



(2013/12/06, Ming)

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Q3. Why can't I communicate with CAN-2000C serial modules by using CANopen master which is not provided by ICPDAS? At the same time, the ERR LED of CAN-2000C modules is blinking continuously.

A:

Please check the terminal resister. Users can measure the resister between CAN_H and CAN_L if it is about 60Ω or not. If not, users need to put 120Ω terminal resisters on the both end of the CAN bus (CAN-2000C module has a built-in 120 terminator resister switch).

(2013/12/06, Randy)

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Q4、Are the plastic materials of CAN-2000 series REACH certified? Are CAN-2000 series UL certified?

Ans.：

1. No. The plastic materials of CAN-2000C series are not REACH certified.
2. No. CAN-2000C series are not UL certified.

(2016/12/12, Randy)

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Q5、What is the weight of CAN-2000 series? Is there STEP file available?

Ans.：

The weight of CAN-2000 series is about 155g ~ 165g. (Excluded daughter board, such as CAN-2018C or CAN-2019C)

You can download the STEP file in the below link.

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

(2016/12/12, Randy)

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Q6、After the module enters the BUS OFF state, the RESET command cannot be sent. Can it only be powered on again?

Ans:

The error mechanism of CAN is divided into several stages,
because when the module enters the final CAN BUS off state, there is usually a serious error in the CAN bus
Usually there is a problem with the physical layer(ex: wiring error, setting error or other), and there is a high probability that the problem needs to be solved manually.

Therefore, when designing the module, we hope that users can personally check when bus off occurs.
Otherwise, if the root cause is not solved, even if the module is restarted through commands, bus off will soon occur.
(2025/12/29 Alina)

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Q7、How to modify the mapped objects in the range 0x1600~0x1609 / 0x1A00~0x1A09?

Ans:

To modify objects mapped in ranges 0x1600~0x1603/0x1A00~0x1A03, first confirm that sub-index 0 is 0. If it is not 0, set sub-index 0 to 0 before making the modification.

After modification, enter the quantity of sub-indexes into sub-index 0.

An example of the proper procedure is provided below for your reference.

(1) Set sub-index 0 of object 0x1A01 to 0.

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	1	0	0	0	8	2F	01	1A	00	00	00	00	00

(2) Write the object to be mapped to object 0x1A01

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	1	0	0	0	8	23	01	1A	01	20	01	01	30

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	1	0	0	0	8	23	01	1A	01	20	02	01	30

(3) Write the quantity of the sub-index into sub-index 0 of object 0x1A01.

11-bit COB-ID (bit)											RTR	Data Length	8-byte Data (byte)							
Func Code				Node ID																
10	9	8	7	6	5	4	3	2	1	0			0	1	2	3	4	5	6	7
1	1	0	0	0	0	0	0	1	0	0	0	8	2F	01	1A	00	02	00	00	00

(2025/12/29 Alina)

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