

PISO-CAN400U-FD series

Quick Start

v1.0, Feb 2021

Packing List

In addition to this guide, the package includes the following items:



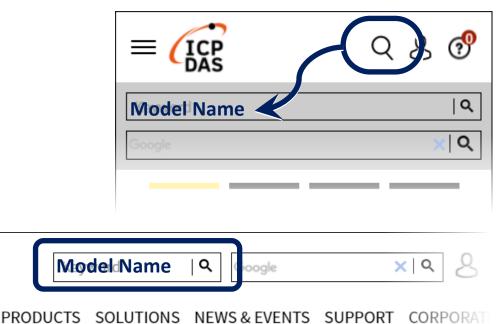
PISO-CAN400U-FD-T or PISO-CAN400U-FD-D x 1

Technical Support

service@icpdas.com www.icpdas.com Resources

How to search for drivers, manuals and spec information on ICP DAS website.

• For Mobile Web



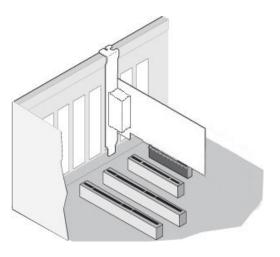
For Desktop Web



1

Installing the Hardware on PC

- Step 1: Shut down and power off the computer.
- **Step 2:** Remove all the covers from the computer.
- Step 3: Select an unused PCI slot.
- **Step 4:** Carefully insert the PISO-CAN400U-FD series board into the PCI slot and secure the board in place.
- Step 5: Replace the covers on the computer.
- Step 6: Reconnect the power supply and power on the computer.



- **Step 7:** Once the computer reboots, follow section 2 to install the windows driver of PISO-CAN400U-FD series board.
 - 2 Installing Windows Driver

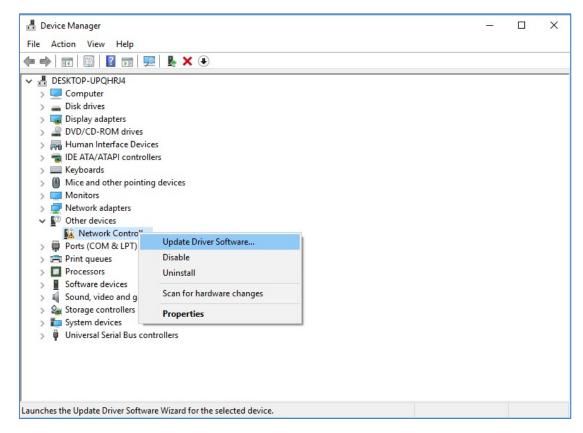
Step 1: Download or locate the Windows driver.

The **KP_CANFD** driver supports 32/64-bit Windows 7/8.1/10. It is recommended that new users install this driver, which can be found in the following location.

https://www.icpdas.com/en/download/show.php?num=3200



(1). Right-click the Start button or press the Windows Logo + X key combination on the keyboard and, from the list, click to select Device Manager. (2). On the **Device Manager** screen, select the **Network Controller** device from **Other devices** item, then right-click the mouse button. Then select **Update Driver Software...** to continue.



(3). On the Update Driver Software – Network Controller screen, click the **Browse my computer for driver software** to continue.

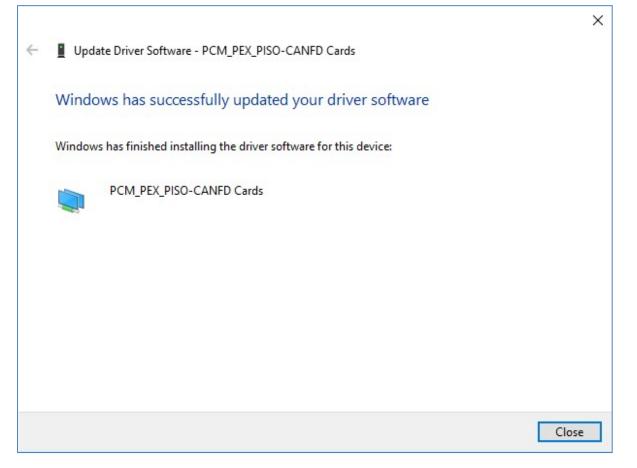
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| 1 (| Jpdate Driver Software - Network Controller | |
|---------------|--|-------|
| Ho | w do you want to search for driver software? | |
| \rightarrow | Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings. | |
| -> | Browse my computer for driver software Locate and install driver software manually. | |
| | | |
| | | Cance |

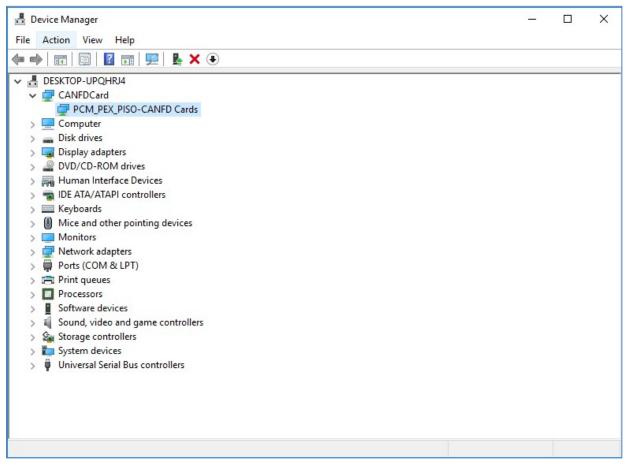
(4). Then Click the **Browser...** button to select the driver directory and click the **Next** button to start to install the driver.

| Update Driver Software - Network O | Controller | |
|---|--|-------|
| Browse for driver software or | your computer | |
| Search for driver software in this location | on: | |
| F:\Drivers | ✓ Browse | |
| | | |
| | f device drivers on my computer r software compatible with the device, and all drive s the device. | Er |
| | | Cance |

(5). Once the installation has been completed, click the **Close** button to exit.



(6). After successfully to install the driver, you can see the **PCM_PEX_PISO-CANFD** Cards in **CANFDCard** item.



3

Pin Assignment

| | Pin Assignments for the 5-pin screw terminal connector | | | |
|------------|--|---|---------------------------------------|--|
| Pin No. | Name | Description | 5-pin screw terminal block | |
| 1 | CAN_GND | CAN_Gnd, signal line for the CAN port. | | |
| 2 | CAN_L | CAN_Low, signal line for the CAN port. | S S S S S S S S S S S S S S S S S S S | |
| 3 | F.G. | Frame Ground. | CAN GAN L | |
| 4 | CAN_H | CAN_High, signal line for the CAN port. | W GNO | |
| 5 | N/A | Not used | | |

| Pin Assignments for the 9-pin Male D-Sub connector | | | | |
|--|---------|---|----------------------------|--|
| Pin No. | Name | Description | | |
| 1 | N/A | Not used | | |
| 2 | CAN_L | CAN_Low, signal line for the CAN port. | 9-pin D-Sub male connector | |
| 3 | CAN_GND | CAN_Gnd, signal line for the CAN port. | | |
| 4 | N/A | Not used | | |
| 5 | N/A | Not used | | |
| 6 | CAN_GND | CAN_Gnd, signal line for the CAN port. | CAN_L | |
| 7 | CAN_H | CAN_High, signal line for the CAN port. | | |
| 8 | N/A | Not used | | |
| 9 | N/A | Not used | | |

4

Testing Board

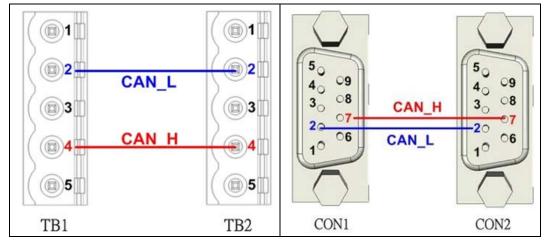
PISO-CANFD Utility is provided by ICP DAS to transmit / receive CAN/CAN FD messages for CAN Bus communication testing easily and quickly.



The software is located at: <u>https://www.icpdas.com/en/download/show.php?num=3199</u>

Step 2: Setting up the board

Connect the CAN_L and CAN_H pin on port1 and port2 of board.



Step 3: Active the board

Launch the PISO-CANFD Utility software.

| 🌺 PISO-CANFD Utility v1.0.0.0 | × |
|---|---|
| File Connect View Help | |
| Port 1 Port 3 Port 4 | |
| | |
| Model Name BoardNo: 01, PISO-CAN400U-FD | |
| | |
| Port 1 Port 2 Port 3 Port 4 | |
| CAN 1 Settings | |
| ✓ Port Enable ✓ ISO CRC Enable | |
| CAN Operation Mode | |
| ○ CAN FD ○ CAN 2.0 ○ Listen Only | |
| CAN Bit Rate Setting | |
| Arbitration 500.000 kbps SP 80.00 % | |
| Data Phase 2000.000 kbps SP 80.00 % | |
| CAN Filter Setting | |
| Standard ID ○ Extended ID ▼ Pass All | |
| Acceptance ID 000 | |
| Acceptance Mask 000 | |
| | |
| Cancel Active | |
| | |
| | |
| Model: ?? PortStatus: Disable BR: ??/?? kbps | |

- (1). Click the "Connect to ..." item to open the "Connect" frame of Utility.
- (2). Select the necessary PISO-CAN400U-FD module.
- (3). On the "CAN Setting location, user can set the CAN operation mode, bit rate and filter prarameters. For detail information, please refer to section "2.4. Software Utility" of user's manual.
- (4). Press the "Active" buttom to start to use the above setting to send/receice CAN messages.

| Step 4: Send, receive CAN/CAN FD messages | |
|---|---|
| E | By using the PISO-CANFD Utiltiy tool, user can send and recei |
| (| CAN/CAN FD messages via the board. |

Send CAN/CAN FD messages and check received CAN/CAN FD messages.

| | September 2019 PISO-CANFD Utility v1.0.0.0 | |
|-----------------------|--|------------------------|
| | File Connect View Help | |
| Send | Port 1 Port 2 Port 3 Port 4 | |
| CAN/CANFD Messages | CAN1 Send Message Send Message Configuration Mode ID (Hex) Type DL Data Time No MODE ID(hex) Type DL Data Time | er (ms) 0 Status |
| Receive CAN/CANFD | CAN1 Receive Message O Scroll Mode O OverWrite Mode Scroll | |
| Messages | No MODE ID(hex) Type DL Data TimeS | tamp(se |
| | Start Record Rx Pause Clear RecvCnt Clear | |
| | Model: PISO-CAN400U-FD PortStatus: Enable BR: 500.000/2000.000 | Jkbps 🛒 |