

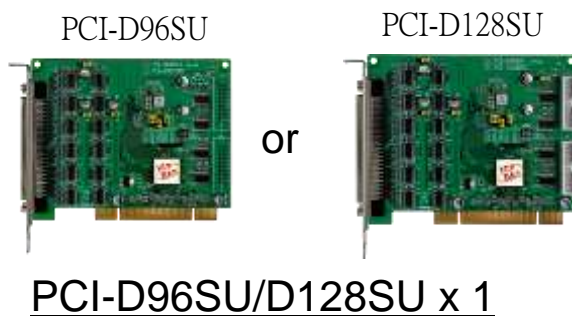


PCI-D96SU/D128SU Quick Start

v1.0, Apr. 2019

What's in the box?

The package includes the following items:

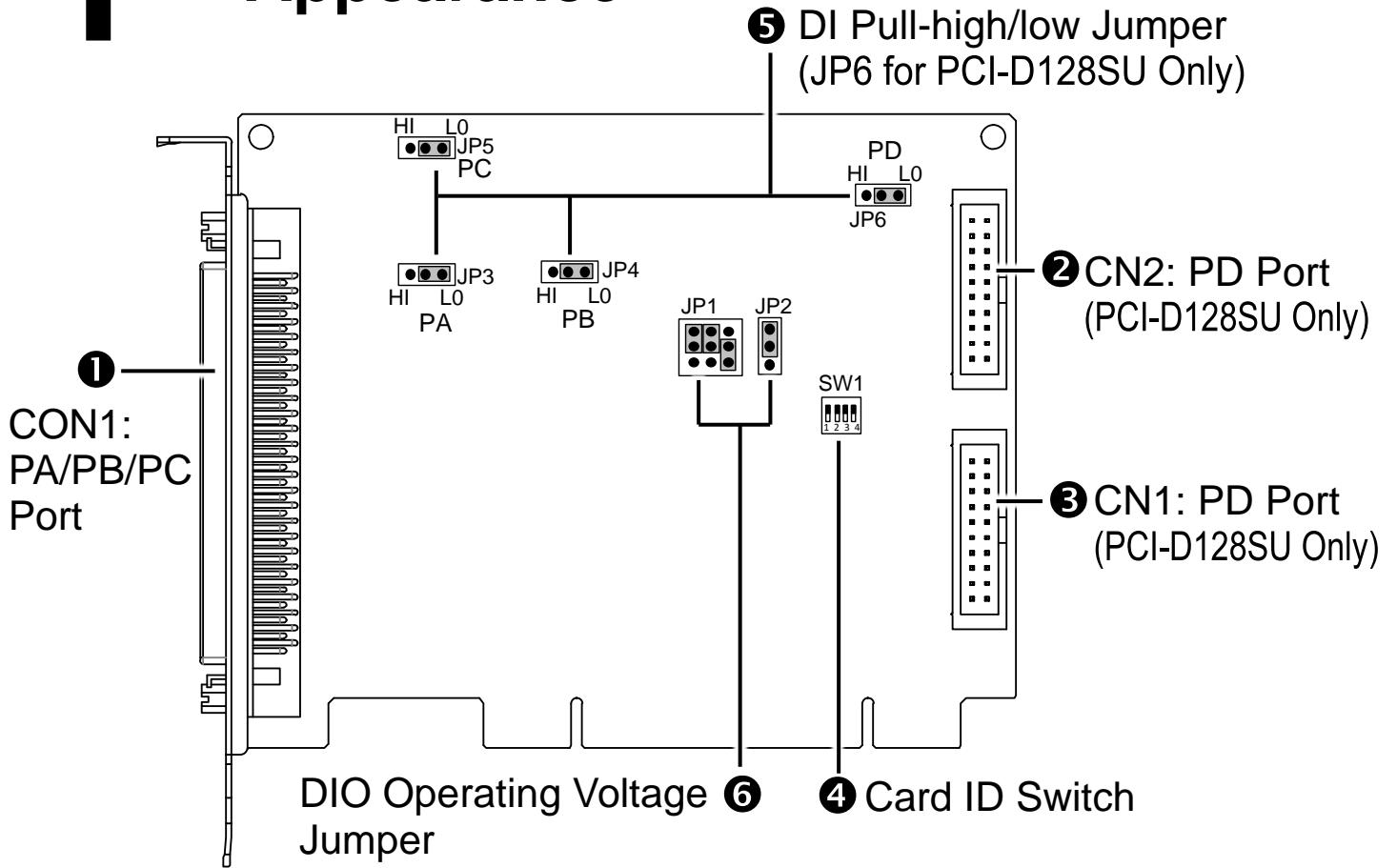


Quick Start x 1
(This Document)

Related Information

- For more detailed information related to the user manual and software for UniDAQ Driver & SDK:
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/>
- For more detailed information related to the hardware settings for PCI-D96SU/D128SU Card:
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pci-d96su/manual/>
- DN-100 and CA-SCSI100-15 Product Page (optional):
http://www.icpdas.com/root/product/solutions/pc_based_io_board/daughter_boards/dn-100.html
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm

1 Appearance



2 Jumper Settings

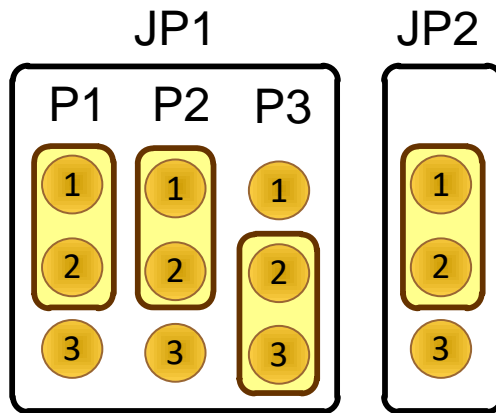
➤ **DI Pull-high/low Jumper**

Jumpers JP3 to JP6 are used to specify whether the Digital Input is either Pull-high or Pull-low. **NOTE: Ensure that Jumpers JP3 to JP6 are in the default position before performing a self-test.**

<input checked="" type="checkbox"/> Pull-Low (Default)	Pull- High
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> HI LO </div>	<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> HI LO </div>

➤ DIO Operating Voltage Jumper

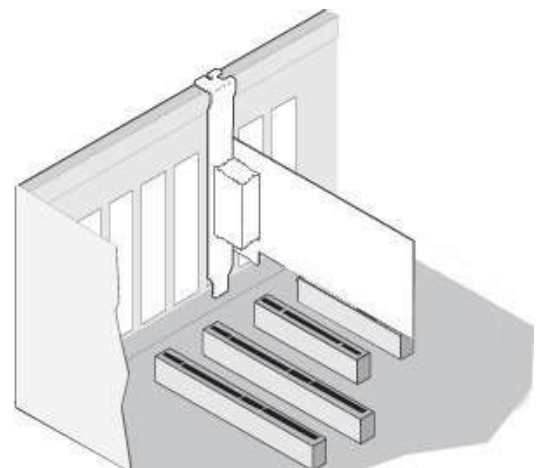
Jumpers JP1 and JP2 are used to specify the DIO operating voltage levels. **NOTE: Ensure that Jumpers JP1 and JP2 are in the default position before performing a self-test.**



JP1			JP2	Voltage
P1	P2	P3		
2-3	1-2	1-2	2-3	+1.5 V
1-2	2-3	1-2	2-3	+1.8 V
1-2	1-2	1-2	2-3	+2.5 V
1-2	1-2	2-3	2-3	+3.3 V
X	X	X	1-2	+5.0 V (Default)

3 Installing Hardware on PC

- 1) Shut down and power off your Computer.
- 2) Remove all covers from the Computer.
- 3) Select an unused PCI slot.
- 4) Carefully insert the PCI-D96SU/D128SU Card into PCI slot.
- 4) Replace the Computer Covers.
- 5) Power on the Computer.



4 Installing Windows Driver

1) Setup the UniDAQ driver under Windows 10.

The UniDAQ driver supports 32-/64-bit Windows XP/2003/2008/7/8/10 which can be found in the

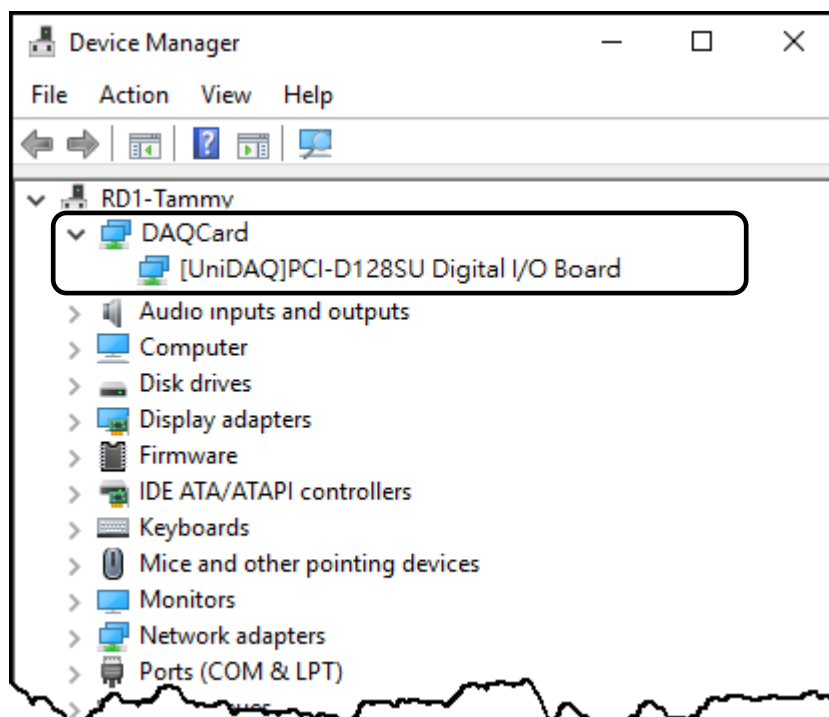
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/driver/>.

2) Setup the UniDAQ Driver DLL, click the “**Next>**” button for all dialogs.

NOTE: For more detailed information related to driver installation, refer to Chapter 2 “Starting” in the UniDAQ SDK user manual.

3) The operating system will automatically detect the new hardware and install the necessary drivers after reboot the PC.

4) Open the “**Device Manager**” to verify that the PCI-D96SU/D128SU Card has been correctly installed and is in the Device Manager, as illustrated on below.



5

Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
PA_00	01	51 PB_00
PA_01	02	52 PB_01
PA_02	03	53 PB_02
PA_03	04	54 PB_03
PA_04	05	55 PB_04
PA_05	06	56 PB_05
PA_06	07	57 PB_06
PA_07	08	58 PB_07
PA_08	09	59 PB_08
PA_09	10	60 PB_09
PA_10	11	61 PB_10
PA_11	12	62 PB_11
PA_12	13	63 PB_12
PA_13	14	64 PB_13
PA_14	15	65 PB_14
PA_15	16	66 PB_15
PA_16	17	67 PB_16
PA_17	18	68 PB_17
PA_18	19	69 PB_18
PA_19	20	70 PB_19
PA_20	21	71 PB_20
PA_21	22	72 PB_21
PA_22	23	73 PB_22
PA_23	24	74 PB_23
GND	25	75 GND
PA_24	26	76 PB_24
PA_25	27	77 PB_25
PA_26	28	78 PB_26
PA_27	29	79 PB_27
PA_28	30	80 PB_28
PA_29	31	81 PB_29
PA_30	32	82 PB_30
PA_31	33	83 PB_31
PC_00	34	84 PC_16
PC_01	35	85 PC_17
PC_02	36	86 PC_18
PC_03	37	87 PC_19
PC_04	38	88 PC_20
PC_05	39	89 PC_21
PC_06	40	90 PC_22
PC_07	41	91 PC_23
PC_08	42	92 PC_24
PC_09	43	93 PC_25
PC_10	44	94 PC_26
PC_11	45	95 PC_27
PC_12	46	96 PC_28
PC_13	47	97 PC_29
PC_14	48	98 PC_30
PC_15	49	99 PC_31
VCC	50	100 VCC

CON1

Pin Assignment	Terminal No.	Pin Assignment
PD 16	01	02 PD 24
PD 17	03	04 PD 25
PD 18	05	06 PD 26
PD 19	07	08 PD 27
PD 20	09	10 PD 28
PD 21	10	12 PD 29
PD 22	12	14 PD 30
PD 23	14	16 PD 31
GND	16	18 GND
VCC	18	20 --

CN2 (PCI-D128SU only)

Pin Assignment	Terminal No.	Pin Assignment
PD 00	01	02 PD 08
PD 01	03	04 PD 09
PD 02	05	06 PD 10
PD 03	07	08 PD 11
PD 04	09	10 PD 12
PD 05	11	12 PD 13
PD 06	13	14 PD 14
PD 07	15	16 PD 15
GND	17	18 GND
VCC	19	20 --

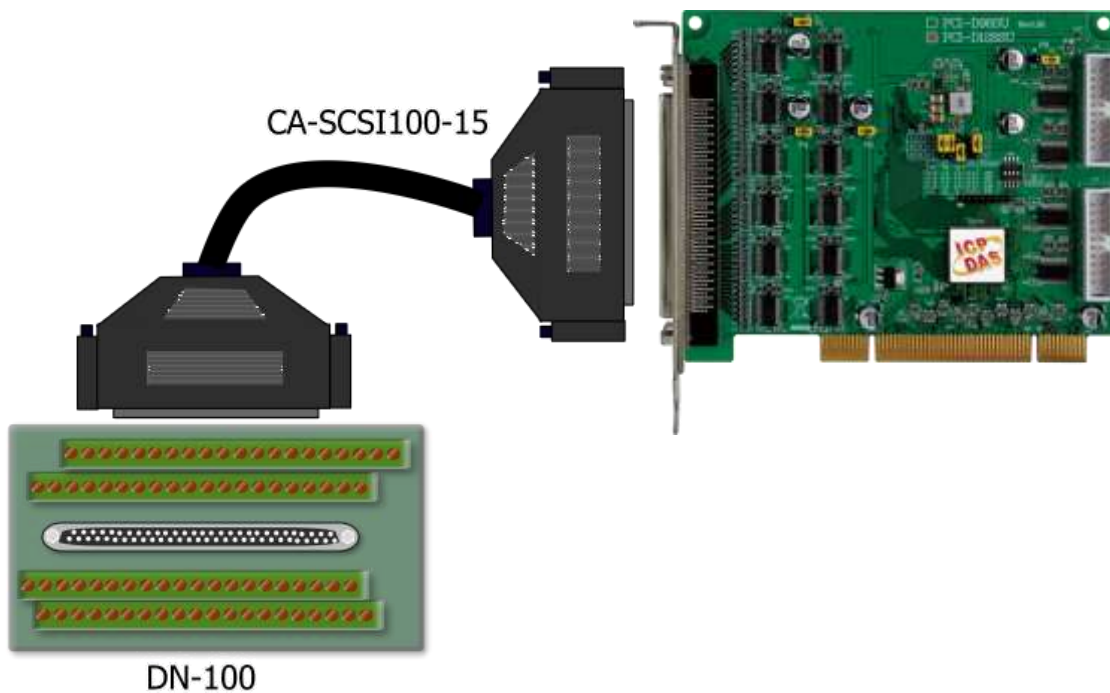
CN1 (PCI-D128SU only)

6 Self-test Wiring

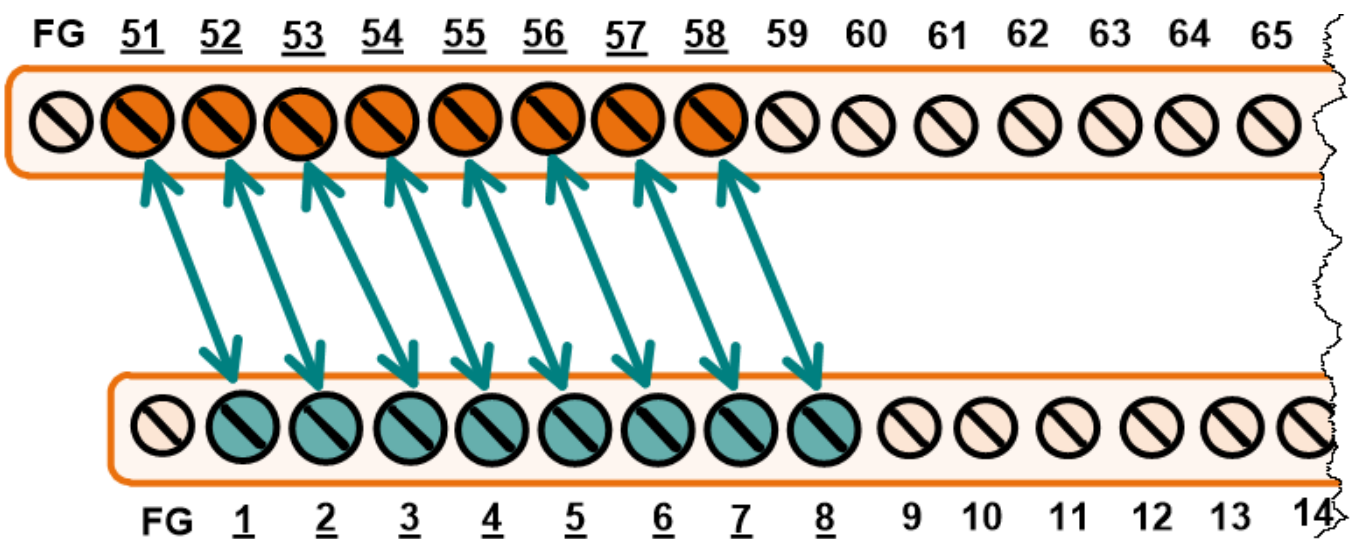
1) Verify that Jumpers **DI Pull-high/low (JP3 ~ JP6)** on the PCI-D96SU/D128SU are set to the “**Pull-Low (default)**” position.

NOTE: Refer to Chapter 2 “**Jumper Settings**” above (P2).

2) Connect the DN-100 terminal board (optional) to the CON1 on the PCI-D96SU/D128SU Card using the CA-SCSI100-15 cable (optional).



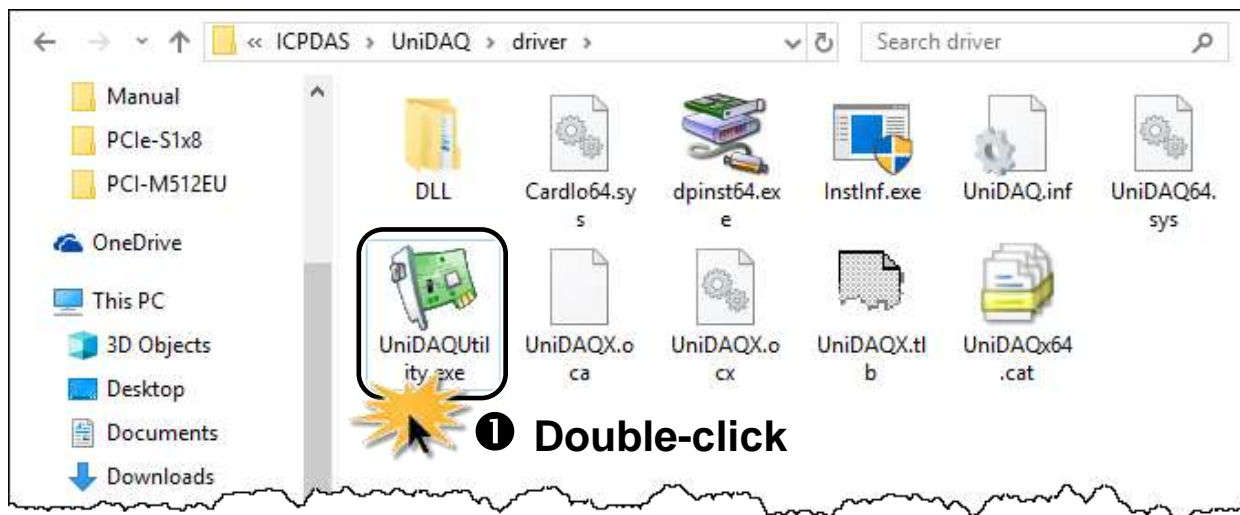
3) Connect the Port0 (PA00~PA07) with Port1 (PB00~PB07).



7 Execute the Test Program

1) Launch the **UniDAQ Utility** software.

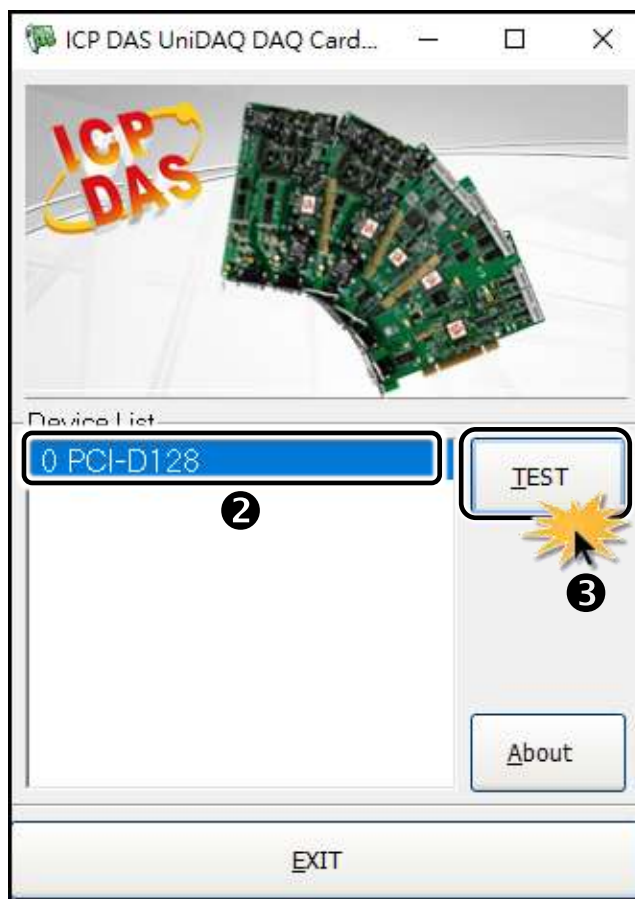
If the UniDAQ Utility was installed in the default folder, it will be located at **“C:\ICPDAS\UniDAQ\Driver”**.



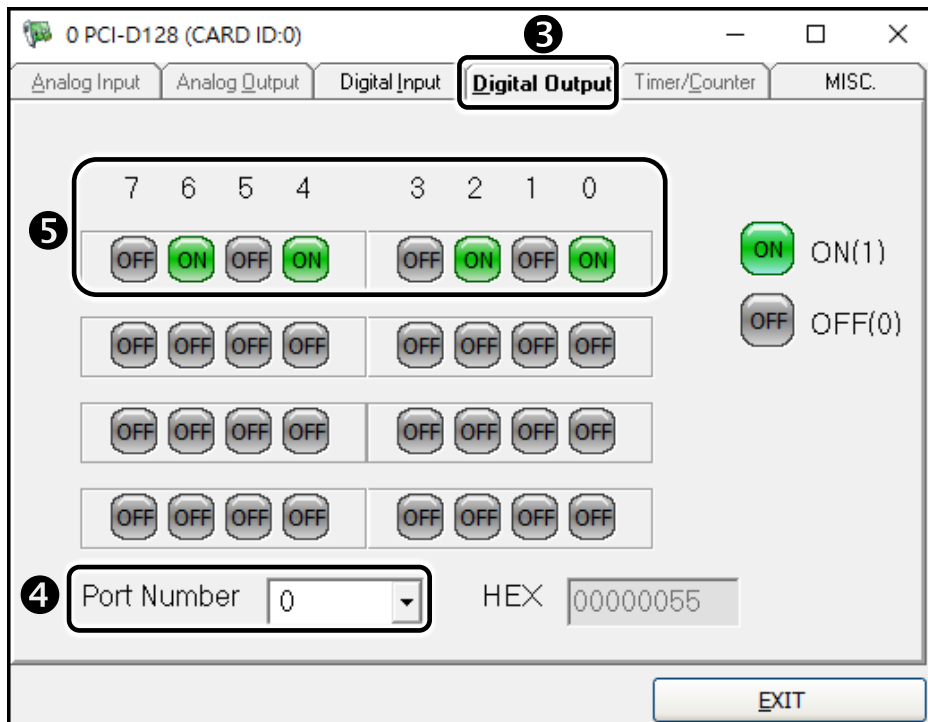
2) Confirm that the PCI-D96SU/D128SU Card has been successfully installed in the Host system.

NOTE: The device numbers start from 0.

3) Click the **“TEST”** button to start the test.



- 3) Click the **“Digital Output”** tab.
- 4) Select **“Port0”** from the **“Port Number”** drop-down options.
- 5) Click the **DO channels 0, 2, 4 and 6** buttons.



- 6) Click the **“Digital Input”** tab.
- 7) Select **“Port1”** from the **“Port Number”** drop-down options.
- 8) The DI indicators will turn **red** when the corresponding **DO channels 0, 2, 4 and 6** are ON.

