



PCI-D96SU/D128SU Quick Start

v1.1, Apr. 2025

Packing List

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



PCI-D96SU/D128SU

Technical Support

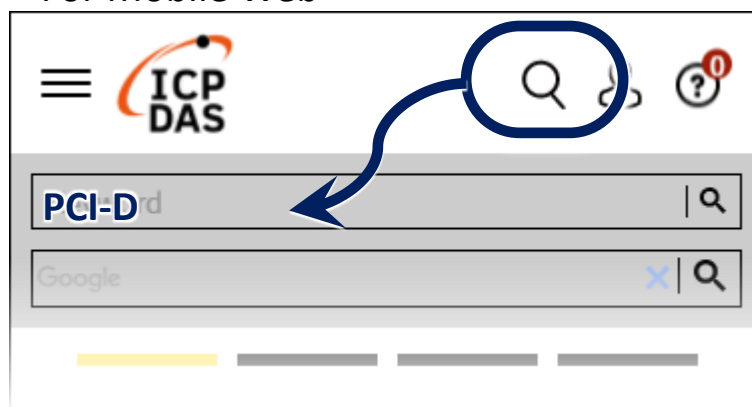
service@icpdas.com

www.icpdas.com

Resources

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

- For Mobile Web



- For Desktop Web



Related Information

For more detailed information related to the software manual, hardware manual, PCI-D96SU/D128SU Driver & SDK and sample program:

<http://www.icpdas.com/en/download/index.php?model=PCI-D96SU>

1 Installing Windows Driver

1) Download or locate the Windows driver.

☒ The UniDAQ **driver** supports 32-/64-bit Windows 10/11, which can be found in the

<https://www.icpdas.com/en/download/index.php?kw=UniDAQ>

2) Click the “**Next>**” button to start the installation.

3) Check your DAQ Card is or not on supported list, then click the “**Next>**” button.

4) Select the installed folder, the default path is **C:\ICPDAS\UniDAQ**, confirm and click the “**Next>**” button.

5) Check your DAQ Card on list, then click the “**Next>**” button.

6) Click the “**Next>**” button on the Select Additional Tasks window.

7) Click the “**Next>**” button on the Download Information window.

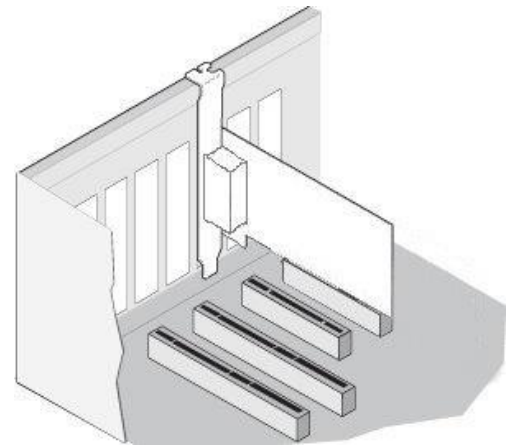
8) Select “**No, I will restart my computer later**” and then click the “**Finish**” button.

NOTE:

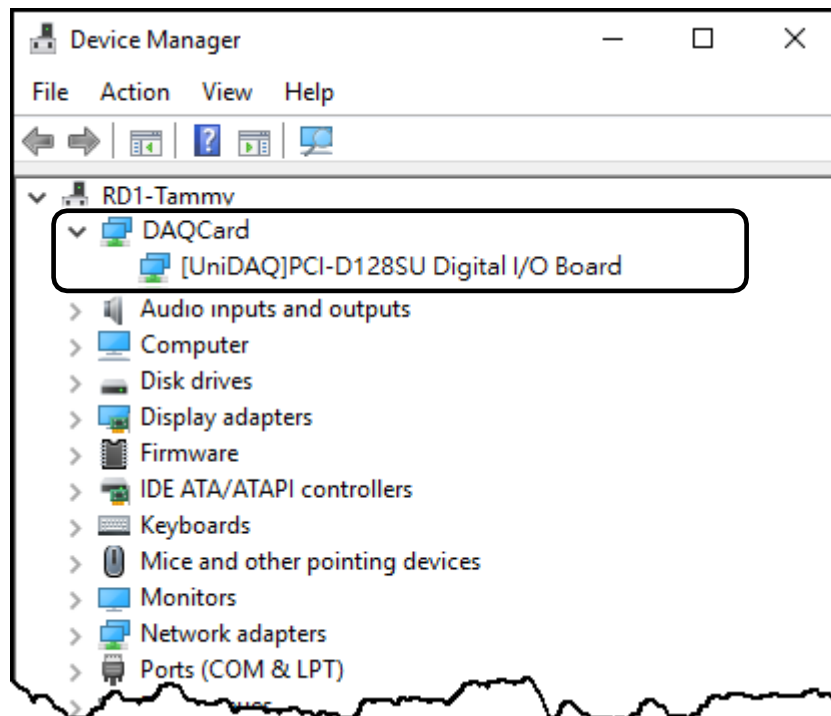
For more detailed information related to driver installation, refer to Chapter 2 “Starting” in the UniDAQ SDK user manual.

2 Installing Hardware on PC

- 1) Power off the Computer.
- 2) Remove all covers from the Computer.
- 3) Select an unused PCI slot.
- 4) Carefully insert the Card into PCI slot.
- 5) Replace the Computer Covers.
- 6) Power on the Computer.
- 7) The operating system will automatically detect the new hardware and install the necessary drivers after reboot the PC.



- 8) 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.



3

Pin Assignments and Jumper

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)

➤ **DI Pull-high/low Jumper**

Jumpers JP3 to JP6 are used to specify whether the Digital Input is either Pull-high or Pull-low.

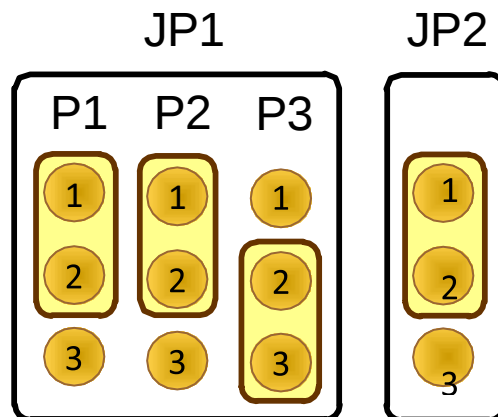
NOTE: Ensure that Jumpers JP3 to JP6 are in the default position before performing a self-test.

☒ Pull-Low (Default)	Pull- High
HI LO	HI LO

➤ **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
1-2	1-2	2-3	1-2	+5.0 V (Default)

4 Testing Board

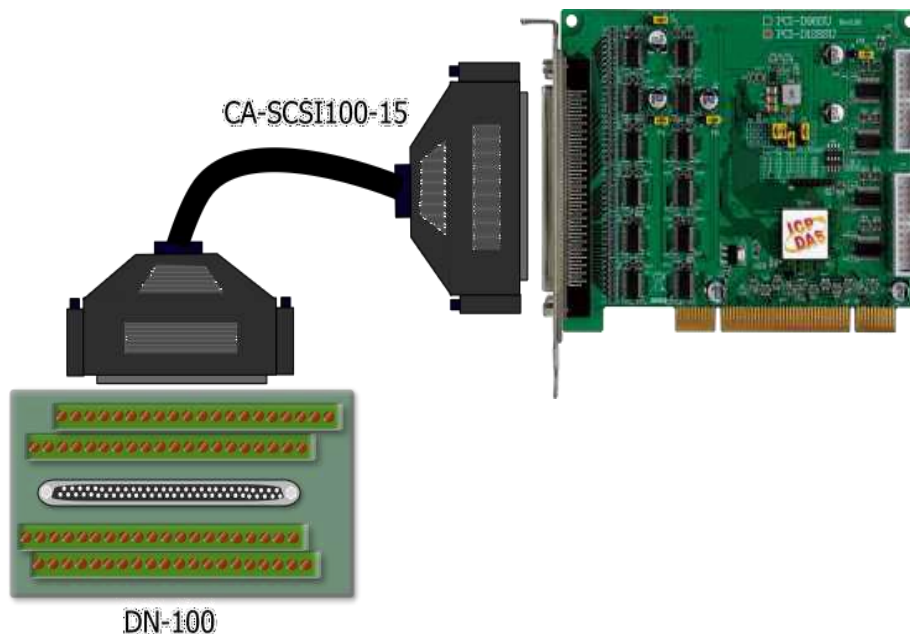
➤ Prepare for device

- ☑ CA-SCSI100-15 (optional) cable
- ☑ DN-100 (optional) daughter board

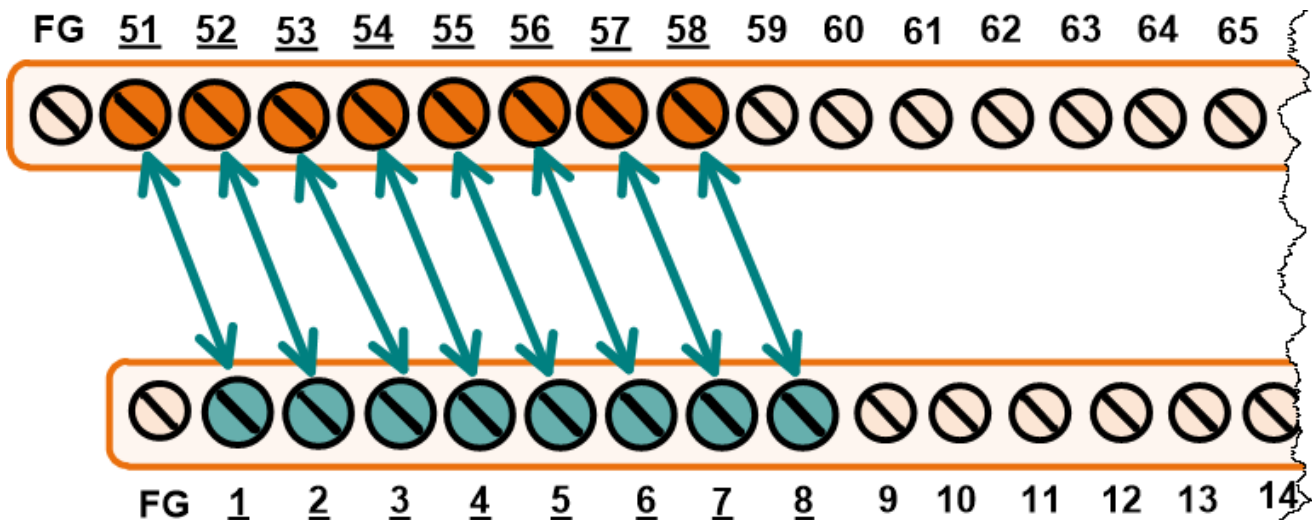
1) Verify that Jumpers **DI Pull-high/low (JP3 ~ JP6)** on the PCI-D96SU/D128SU are set to the “**Pull-Low (default)**” position.

NOTE: Refer to Chapter 3 “Pin Assignments and Jumpers” above (P5).

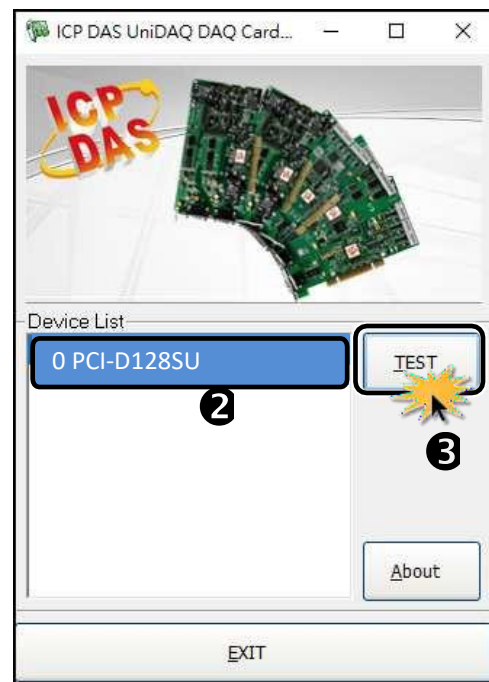
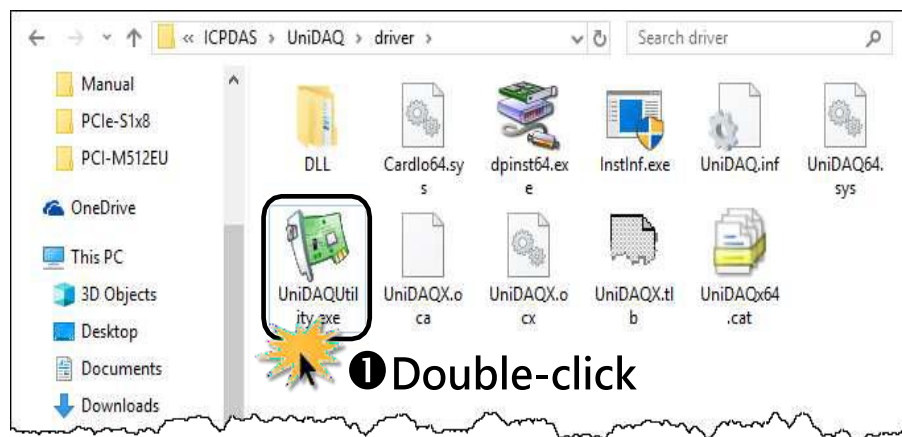
2) Connect the **CON1** to DN-100 board using the **CA-SCSI100-15** cable.



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



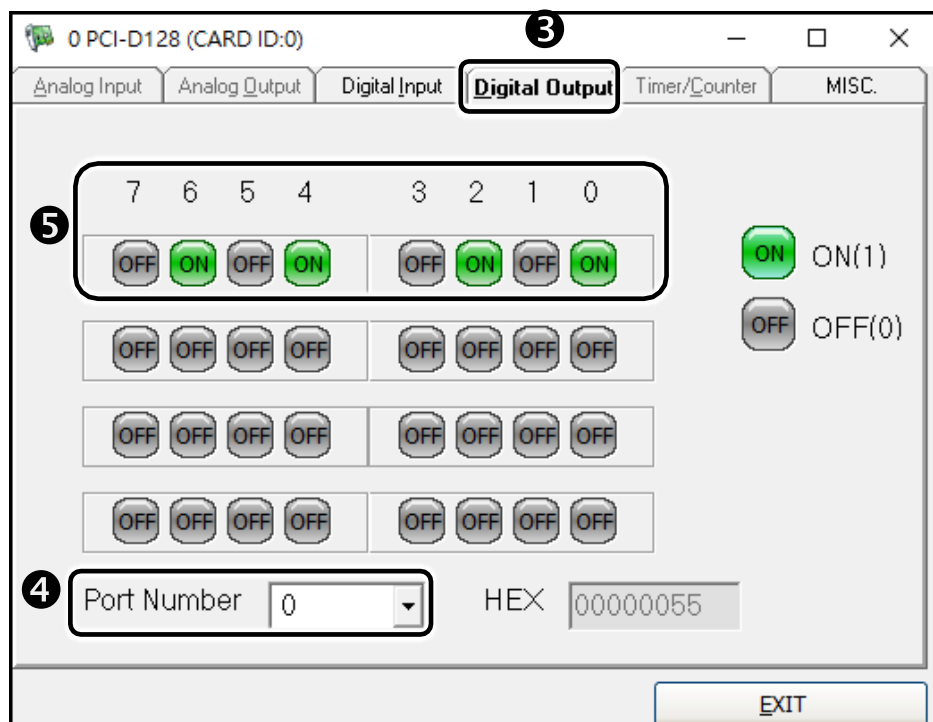
- 4) Launch the UniDAQ Utility program, it was installed in the default it was installed in the default:
“C:\ICPDAS\UniDAQ\Driver”



- 5) Confirm that the device has been successfully installed in the Host system.

NOTE: The device numbers **start from 0**.

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



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

