



PCI-AD64 Series Quick Start

v1.0, Dec. 2022

Packing List

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



PCI-AD64 Series

Technical Support

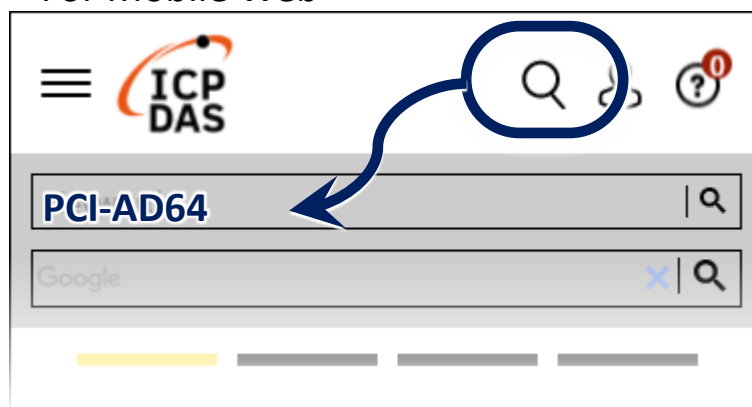
service@icpdas.com

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-AD64 series Driver & SDK and sample program:

<http://www.icpdas.com/en/download/index.php?model=PCI-AD64SU>

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.

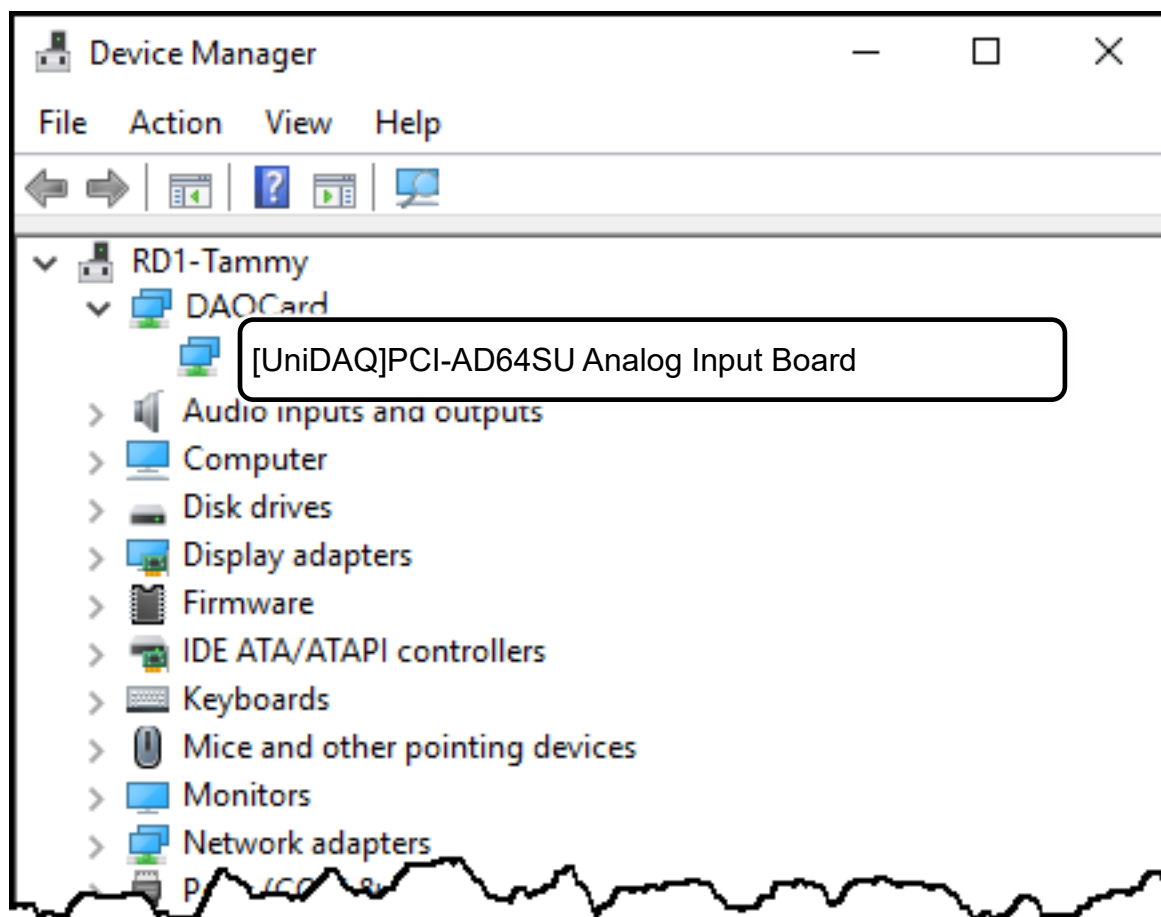
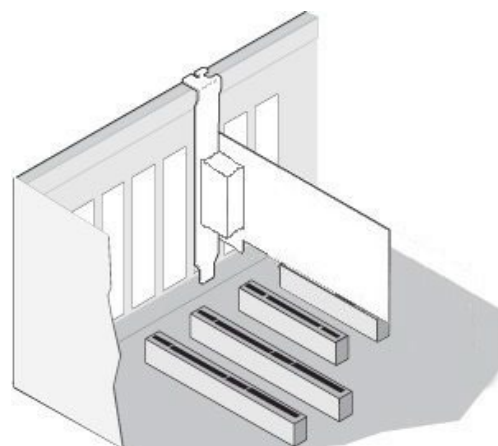
8) Select “**No, I will restart my computer later**” and then click the “**Finish**” button.

NOTE:

For more detailed information related to driver installation, refer to Chapter 4 “Starting” in the PCI-AD64 series user manual.

2 Installing Hardware on PC

- 1) Power off the Computer.
- 2) Remove all covers from the Computer.
- 3) Select an unused PCI /PCI Express slot.
- 4) Carefully insert the Card into PCI/PCI Express 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-AD64 Card has been correctly installed and is in the Device Manager, as illustrated on below.



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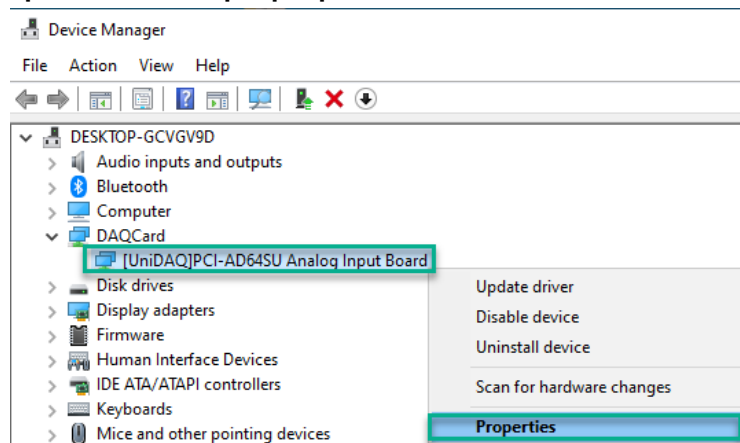
Pin Assignments

Pin Assignment		Terminal	No.	Pin Assignment	
S.E.	Diff.			Diff.	S.E.
AI00	AI00+	68	34	AI00 -	AI01
AI02	AI01+	67	33	AI01 -	AI03
AI04	AI02+	66	32	AI02 -	AI05
AI06	AI03+	65	31	AI03 -	AI07
AI08	AI04+	64	30	AI04 -	AI09
AI10	AI05+	63	29	AI05 -	AI11
AI12	AI06+	62	28	AI06 -	AI13
AI14	AI07+	61	27	AI07 -	AI15
AGND		60	26	AGND	
AI16	AI08+	59	25	AI08 -	AI17
AI18	AI09+	58	24	AI09 -	AI19
AI20	AI10+	57	23	AI10 -	AI21
AI22	AI11+	56	22	AI11 -	AI23
AI24	AI12+	55	21	AI12 -	AI25
AI26	AI13+	54	20	AI13 -	AI27
AI28	AI14+	53	19	AI14 -	AI29
AI30	AI15+	52	18	AI15 -	AI31
AI32	AI16+	51	17	AI16 -	AI33
AI34	AI17+	50	16	AI17 -	AI35
AI36	AI18+	49	15	AI18 -	AI37
AI38	AI19+	48	14	AI19 -	AI39
AI40	AI20+	47	13	AI20 -	AI41
AI42	AI21+	46	12	AI21 -	AI43
AI44	AI22+	45	11	AI22 -	AI45
AI46	AI23+	44	10	AI23 -	AI47
AGND		43	9	AGND	
AI48	AI24+	42	8	AI24 -	AI49
AI50	AI25+	41	7	AI25 -	AI51
AI52	AI26+	40	6	AI26 -	AI53
AI54	AI27+	39	5	AI27 -	AI55
AI56	AI28+	38	4	AI28 -	AI57
AI58	AI29+	37	3	AI29 -	AI59
AI60	AI30+	36	2	AI30 -	AI61
AI62	AI31+	35	1	AI31 -	AI63
			SCSI 68-pin/DB-68-pin		

4 Advanced Configuration

Before beginning the “Self-test”, use the advanced configuration tool in the Windows Device Manager to settings the Analog Input type, the detail configuration is illustrated in the figure below.

- 1) Open the Windows Device Manager, Right-click PCI-AD64 and select the Properties on popup menu.



- 2) Click the **Advanced** tab to open the advanced configuration tool. In the Analog Input Type section, select the Single Ended options for execute a self- test.
- 3) Click the Save Setting(S) button and OK button to complete the configuration.



5 Testing Board

➤ Prepare for device

- ☑ CA-SCSI15-H3 (optional) cable
- ☑ DN-68A (optional) daughter board

1) Connect the **CON1** to DN-68A board using the **CA-SCSI15-H3** cable.

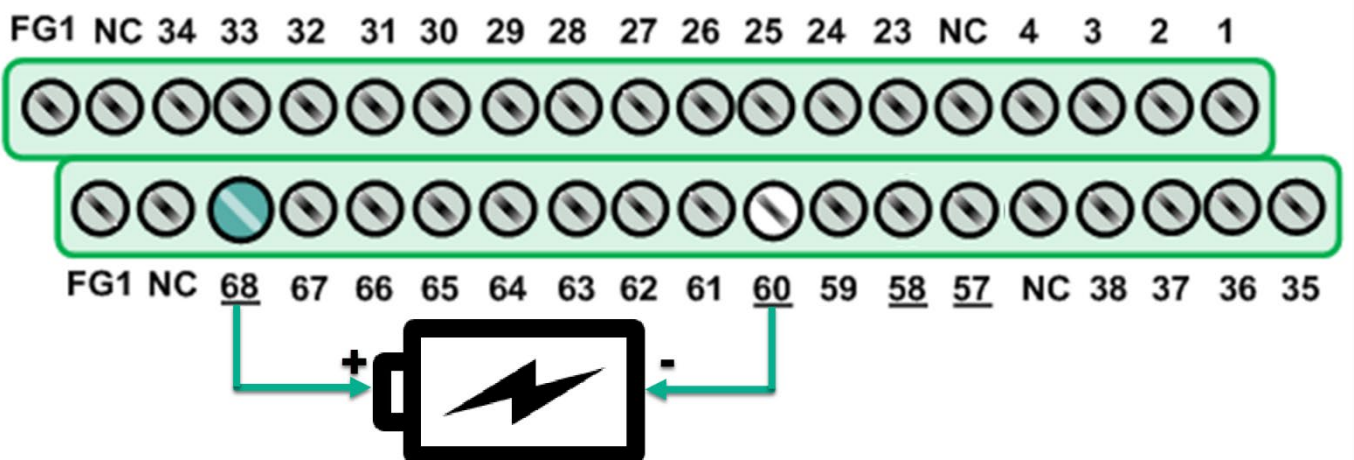


2) AI functional test and wiring

Connect the signal AO channel 0 to AI channel 0, and connect the signals as follows.

Connect the **AI_GND pin (Pin60)** to **battery(-)** on the terminal board

Connect the **AI0 pin (Pin68)** to **battery(+)** on the terminal board.



3) Launch the UniDAQ Utility program, it was installed in the default folder, it will be located at “C:\ICPDAS\UniDAQ\Driver”.



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

❶ Click the “Analog Input” item than click “**SINGLE**” button to get values. Check the voltage is or not equal battery.

