Packing List

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

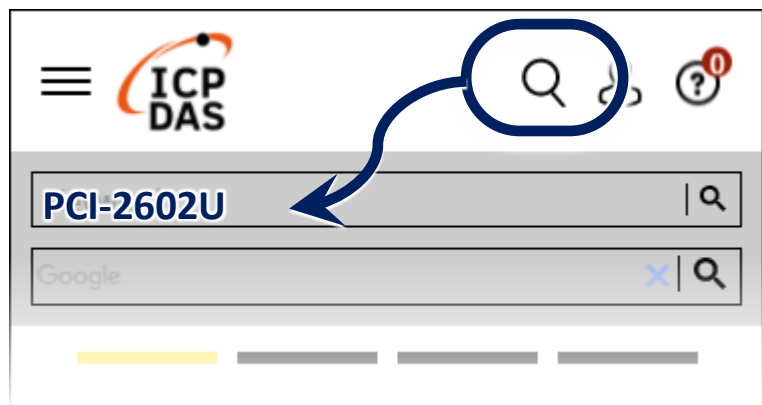PCI-2602U

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-2602U Driver & SDK and sample program:

http://www.icpdas.com/en/download/index.php?model=PCI-2602U

1 Installing Windows Driver

1) Download or locate the Windows driver.

☑ The UniDAQ **driver** supports 32-/64-bit Windows XP/7/10/11, which can be found in the
https://www.icpdas.com/en/download/index.php?kw=UniDAQ

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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 5 "Starting" in the PCI-2602U 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.
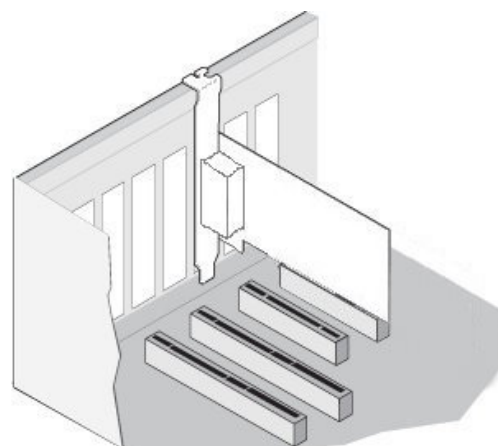
8) Open the **"Device Manager"** to verify that the PCI-2602U Card has been correctly installed and is in the Device Manager, as illustrated on below.
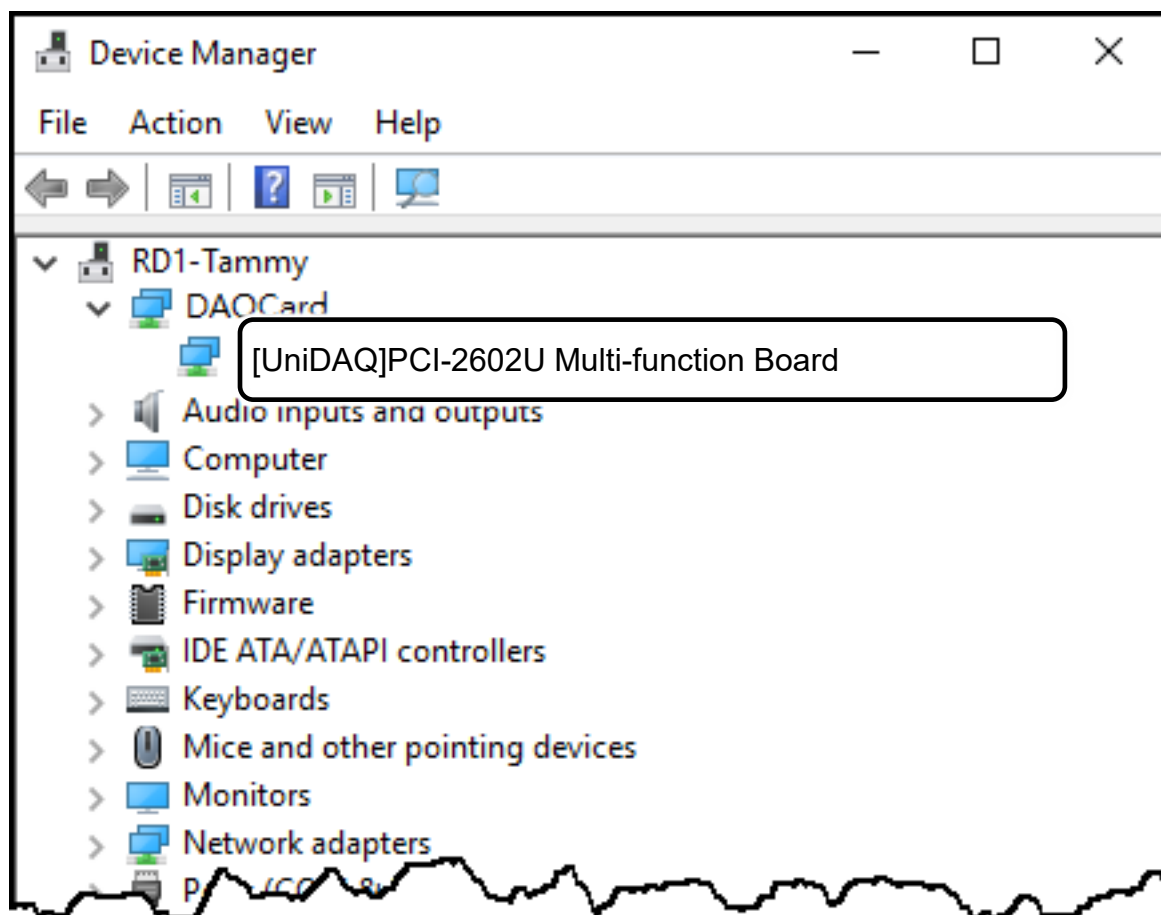
3 Pin Assignments

Pin Assignment		Terminal No.		Pin Assignment	
+5V (Output)		01	35	+12V (Output)	
Ext_TRG		02	36	Cnt0_GATE	
Trg_GATE		03	37	Cnt0_OUT	
Pacer_OUT		04	38	Cnt0_CLK	
D_GND		05	39	D_GND	
PD7		06	40	PD6	
PD5		07	41	PD4	
PD3		08	42	PD2	
PD1		09	43	PD0	
PC7		10	44	PC6	
PC5		11	45	PC4	
PC3		12	46	PC2	
PC1		13	47	PC0	
D_GND		14	48	D_GND	
PB7		15	49	PB6	
PB5		16	50	PB4	
PB3		17	51	PB2	
PB1		18	52	PB0	
PA7		19	53	PA6	
PA5		20	54	PA4	
PA3		21	55	PA2	
PA1		22	56	PA0	
AO_GND		23	57	AO_GND	
AO1_OUT		24	58	AO0_OUT	
AO1_REF		25	59	AO0_REF	
AI_GND		26	60	AI_GND	
AI15	AI7-	27	61	AI14	AI7+
AI13	AI6-	28	62	AI12	AI6+
AI11	AI5-	29	63	AI10	AI5+
AI9	AI4-	30	64	AI8	AI4+
AI7	AI3-	31	65	AI6	AI3+
AI5	AI2-	32	66	AI4	AI2+
AI3	AI1-	33	67	AI2	AI1+
AI1	AI0-	34	68	AI0	AI0+
S.E.	Diff.			S.E.	Diff.

Female SCSI 68-pin (CON1)

4 Advanced Configuration

Before beginning the "Self-test", use the advanced configuration tool in the Windows Device Manager to settings the Analog Input type and Digital I/O Ports, the detail configuration is illustrated in the figure below.

1) Open the Windows Device Manager, Right-click PCI-2602U and select the Properties on popup menu.
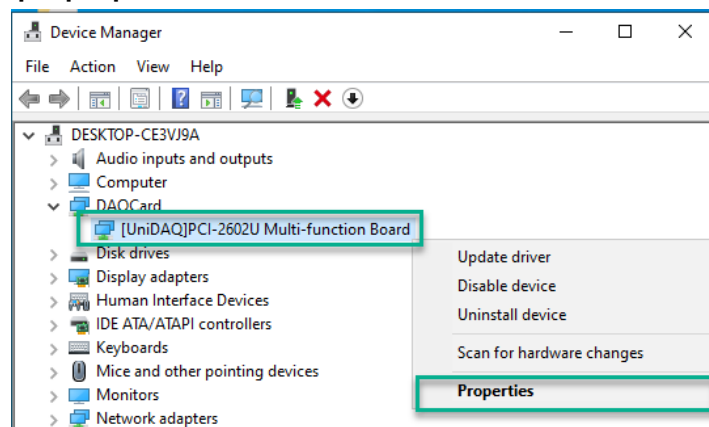
2) Click the **Advanced** tab to open the advanced configuration tool. In the Analog Input Type section, select the Single Ended options for execute a self- test.

3) Click the Save Setting(<u>S</u>) button and OK button to complete the configuration.
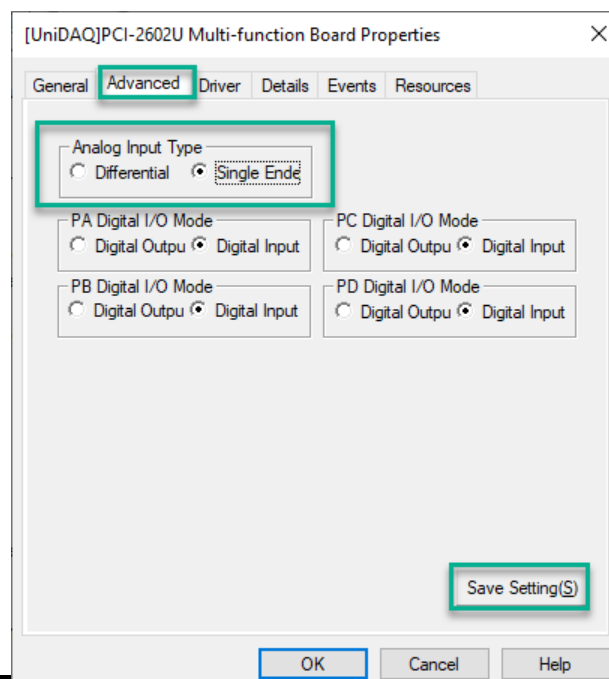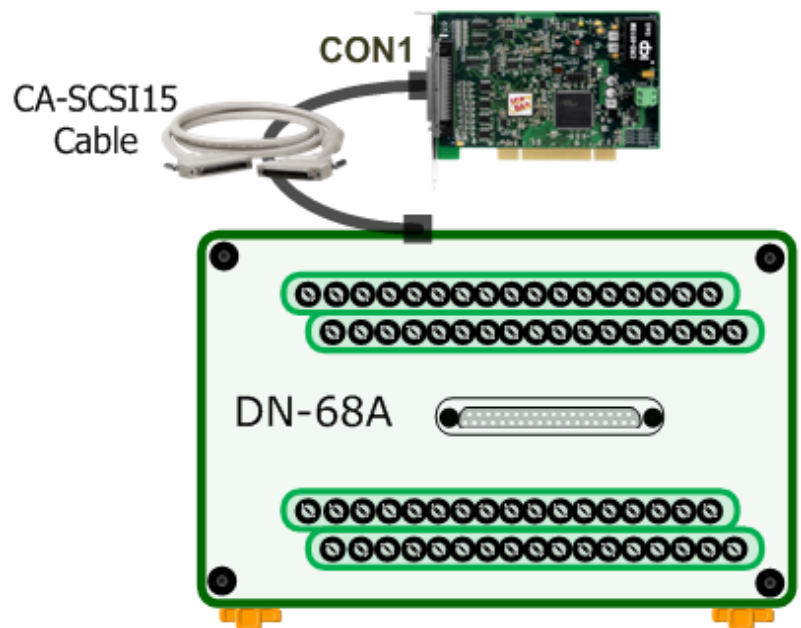
5 **Testing Board**

➢ **Prepare for device**

☑ CA-SCSI-15 (optional) cable
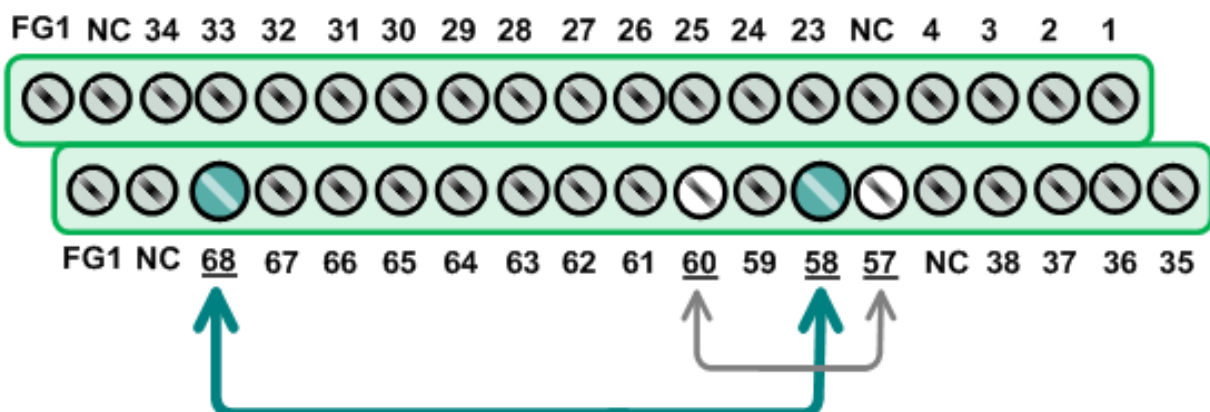
☑ DN-68A (optional) daughter board

1) Connect the **CON1** to DN-68A board using the **CA-SCSI-15** 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 **AO_GND(pin57)** on the terminal board

Connect the **AI0 pin (Pin68) to AO0_OUT pin (Pin58)** on the terminal board.
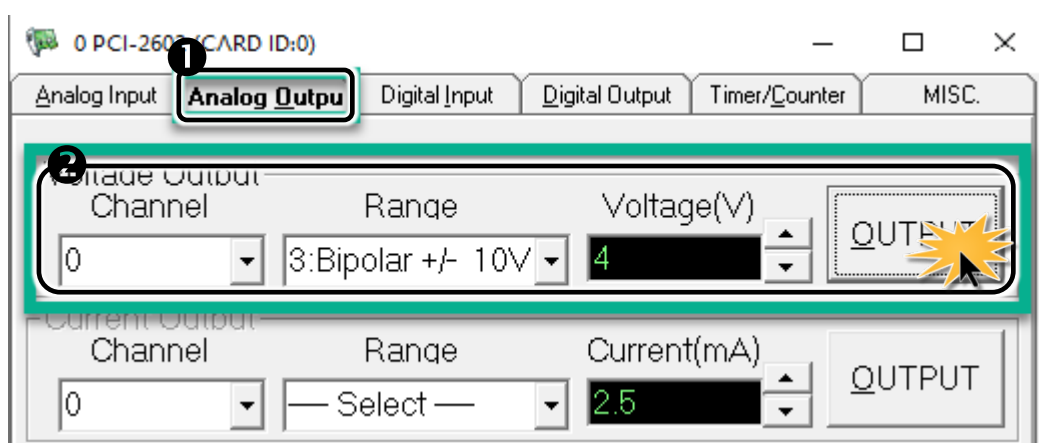
3) Launch the UniDAQ Utility program, it was installed in the default folder, it will be located at **"C:\ICPDAS\UniDAQ\Driver"**.

4) Click the **"TEST"** button to start the test.

❶ Click the **"Analog Output" item**

❷ Select Channel to **0**, Range to **3:Bipolar +/- 10V**, Voltage(V) to **4**, and click **"OUTPUT"** buttons to output voltage.

5) Check the results of the Analog Input channel 0.
❸Click the "Analog Input" item than click **"SINGLE"** button to get values.
Check the voltage is or not equal 4V.