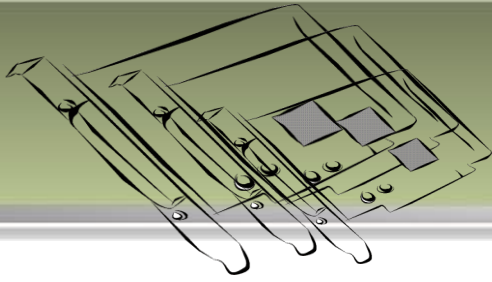


# I/O CARD QUICK START GUIDE

For PIO-D144U/D144LU  
PIO-D168U

English/ Jun. 2013/ Version 1.0



## 1

### What's in the shipping package?

The package includes the following items:



PIO-D144U  
PIO-D144LU

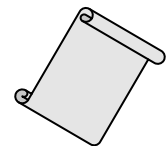
or



PIO-D168U



Software Utility CD  
(V5.2 or later)



Quick Start Guide  
(This Document)

## 2

### Installing Windows Driver

**Step 1: Setup the Windows driver. The driver is located at:**

- The UniDAQ driver supports 32-/64-bit Windows 2K/XP/2003/Vista/7/8; it is recommended to install this driver for new user:  
CD: \NAPDOS\PCI\UniDAQ\DLL\Driver  
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/driver/>
- The PIO-DIO driver supports Windows 98/NT/2K and 32-bit XP/ 2003/ Vista/7/8. Recommended to install this driver for have been used PIO-DIO series boards of regular user, please refer to :  
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pio-dio/manual/quickstart/classic/>

**Step 2:** Click the "**N**ext>" button to start the installation.

**Step 3:** Check your DAQ Card is or not on supported list, then click the "**N**ext>" button.

**Step 4:** Select the installed folder, the default path is C:\ICPDAS\UniDAQ , confirm and click the "**N**ext>" button.

**Step 5:** Check your DAQ Card on list, then click the "**N**ext>" button.

**Step 6:** Click the "**N**ext>" button on the **Select Additional Tasks** window.

**Step 7:** Click the "**N**ext>" button on the **Download Information** window.

**Step 8:** Select "**No, I will restart my computer later**" and then click the "**F**inish" button.

*For detailed information about the driver installation, please refer to Chapter 4 "Software Installation" of the user manual.*

## 3 Installing Hardware on PC

**Step 1:** Shut down and power off your computer.

**Step 2:** Remove the cover from the computer.

**Step 3:** Select an unused PCI slot.

**Step 4:** Carefully insert your I/O card into the PCI slot.


**Step 5:** Replace the PC cover.

**Step 6:** Power on the computer.

**After powering-on the computer, please finish the Plug&Play steps according to the prompted messages.**


# 4 Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
N.C	01	20 +5V
N.C.	02	21 GND
PB_7	03	22 PC_7
PB_6	04	23 PC_6
PB_5	05	24 PC_5
PB_4	06	25 PC_4
PB_3	07	26 PC_3
PB_2	08	27 PC_2
PB_1	09	28 PC_1
PB_0	10	29 PC_0
GND	11	30 PA_7
N.C.	12	31 PA_6
GND	13	32 PA_5
N.C.	14	33 PA_4
GND	15	34 PA_3
N.C.	16	35 PA_2
GND	17	36 PA_1
+5V	18	37 PA_0
GND	19	



CN1

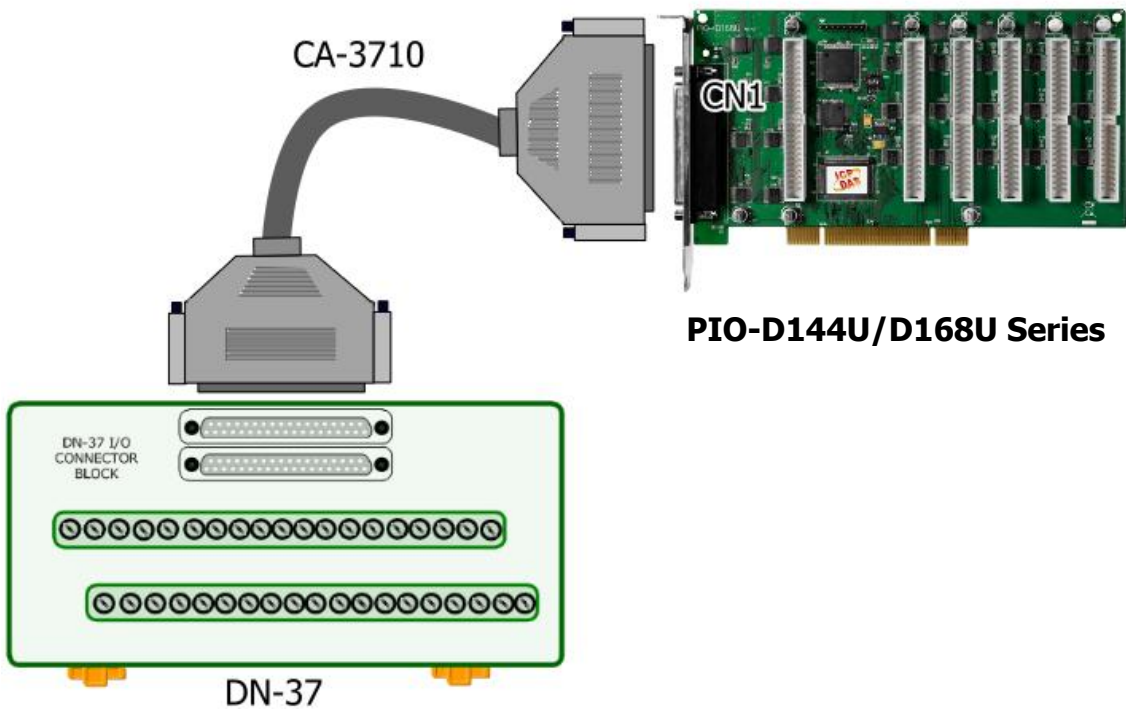
Pin Assignment	Terminal No.	Pin Assignment
PC_7	01	02 GND
PC_6	03	04 GND
PC_5	05	06 GND
PC_4	07	08 GND
PC_3	09	10 GND
PC_2	11	12 GND
PC_1	13	14 GND
PC_0	15	16 GND
PB_7	17	18 GND
PB_6	19	20 GND
PB_5	21	22 GND
PB_4	23	24 GND
PB_3	25	26 GND
PB_2	27	28 GND
PB_1	29	30 GND
PB_0	31	32 GND
PA_7	33	34 GND
PA_6	35	36 GND
PA_5	37	38 GND
PA_4	39	40 GND
PA_3	41	42 GND
PA_2	43	44 GND
PA_1	45	46 GND
PA_0	47	48 GND
+5V	49	50 GND



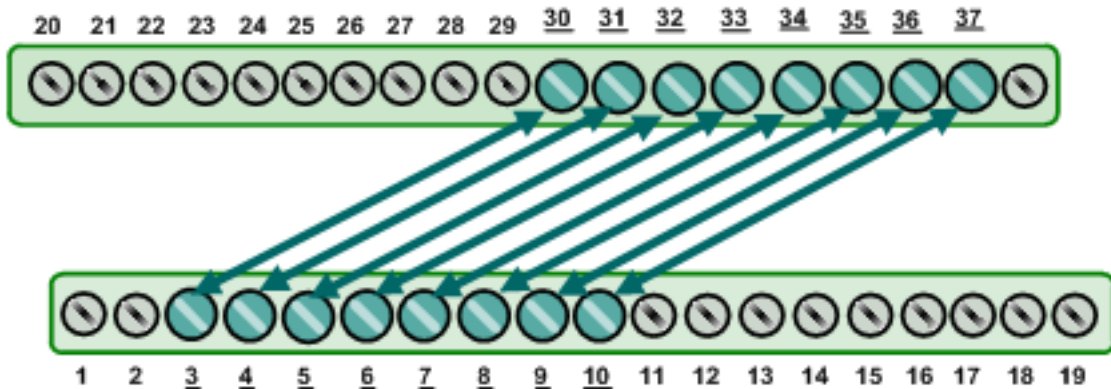
CN2, CN3, CN4, CN5, CN6  
CN7 (PIO-D168U only)

# 5 Self-Test

1. Use the DN-37 (optional) to connect the CN1 on the board.



2. Connect the Port0 (PA0~PA7) with Port1 (PB0~PB7).



### 1. The UniDAQ Utility.exe is located in:

This program (UniDAQ Utility) will be placed in the default path after completing installation.

Default Path: C:\ICPDAS\UniDAQ\Driver\  
 Double click the "UniDAQUtility.exe"



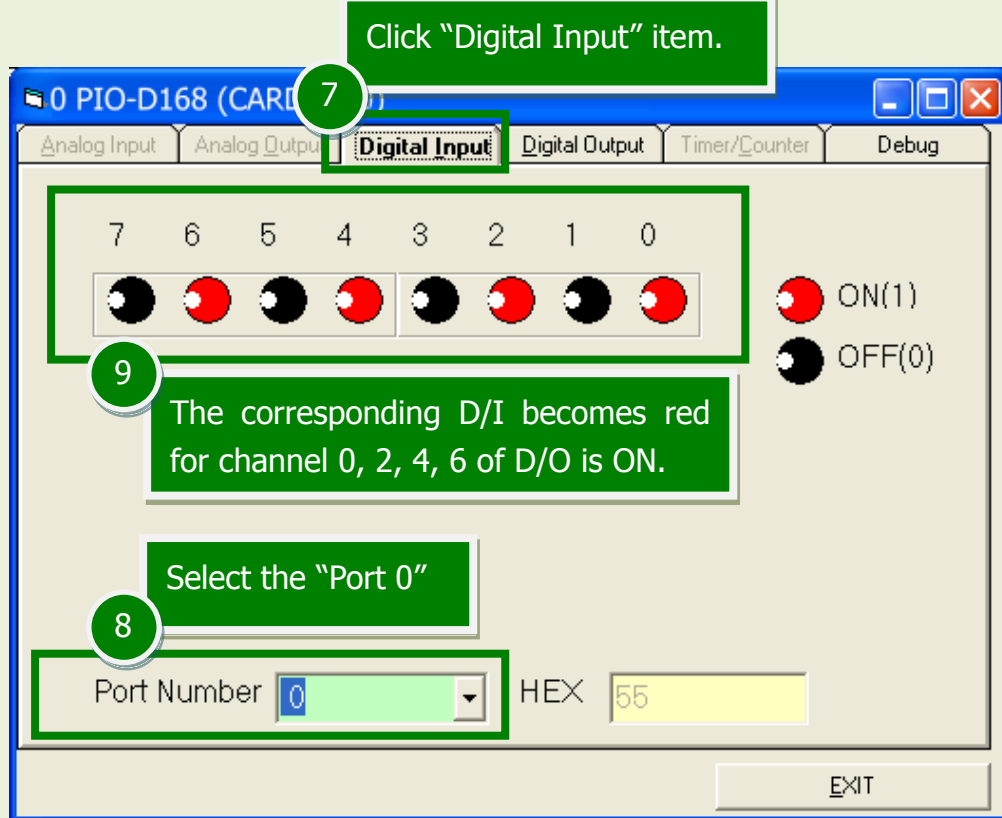
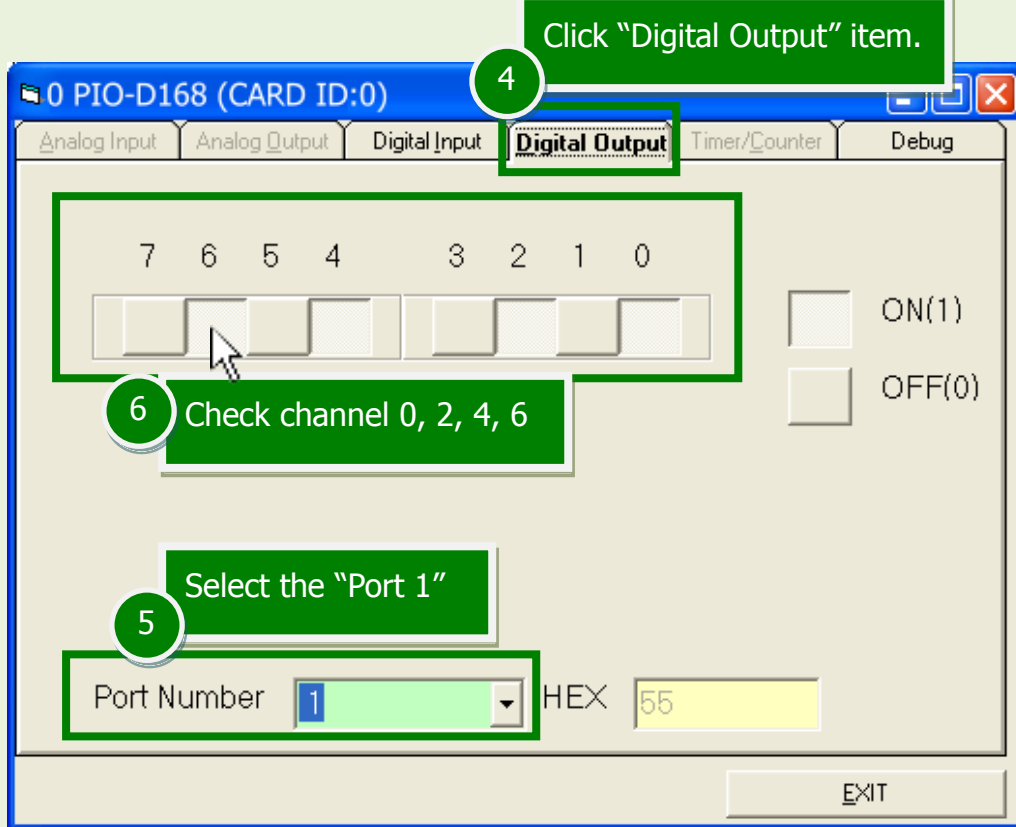
### 2. Execute the UniDAQ Utility Program.

The screenshot shows the 'ICP DAS UniDAQ DAQ Card Utility' window. A green callout box labeled '1' with 'Double-Click' and a mouse cursor icon points to the 'UniDAQUtility' icon on the desktop. A green arrow points from the icon to the application window. A green callout box labeled '2' with a mouse cursor icon points to the 'PIO-D168' entry in the 'Information Device' list. A green callout box labeled '3' with a mouse cursor icon points to the 'TEST' button. Other buttons visible are 'ABOUT' and 'EXIT'.

Confirm the PIO-144U/D168U series card had successfully installed to PC. It starts from 0.

Click this button to start test.

**3. Get DIO function test result.**



**-Complete-**

# 6

## Related Information

- PIO-D144U and PIO-D168U Series Card Product Page:

[http://www.icpdas.com/root/product/solutions/pc\\_based\\_io\\_board/pci/pio-d144.html](http://www.icpdas.com/root/product/solutions/pc_based_io_board/pci/pio-d144.html)

[http://www.icpdas.com/root/product/solutions/pc\\_based\\_io\\_board/pci/pio-d168.html](http://www.icpdas.com/root/product/solutions/pc_based_io_board/pci/pio-d168.html)

- DN-37 and CA-3710 page (optional):

[http://www.icpdas.com/products/DAQ/screw\\_terminal/dn\\_37.htm](http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm)

[http://www.icpdas.com/products/Accessories/cable/cable\\_selection.htm](http://www.icpdas.com/products/Accessories/cable/cable_selection.htm)

- Documentation:

CD:\NAPDOS\PCI\PIO-DIO\Manual\

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/pio-dio/manual/>

- Software:

CD:\NAPDOS\PCI\UniDAQ\DLL\

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