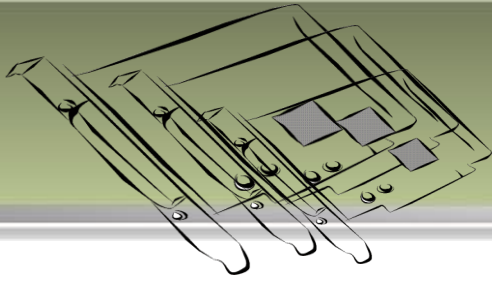


I/O CARD QUICK START GUIDE

For *PIO-D24U/PIO-D56U*
PEX-D24/PEX-D56

English/ Jun. 2013/ Version 1.0



1

What's in the shipping package?

The package includes the following items:



PIO-D24U
PIO-D56U

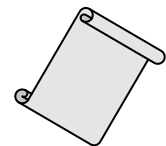
or



PEX-D24
PEX-D56



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/PCI Express slot.

Step 4: Carefully insert your I/O card into the PCI/PCI Express 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	




CON3

Pin Assignment	Terminal No.	Pin Assignment
DI 0	01	02 DI 1
DI 2	03	04 DI 3
DI 4	05	06 DI 5
DI 6	07	08 DI 7
DI 8	09	10 DI 9
DI 10	11	12 DI 11
DI 12	13	14 DI 13
DI 14	15	16 DI 15
GND	17	18 GND
+5V	19	20 +12V



CON2 (PIO/PEX-D56 only)

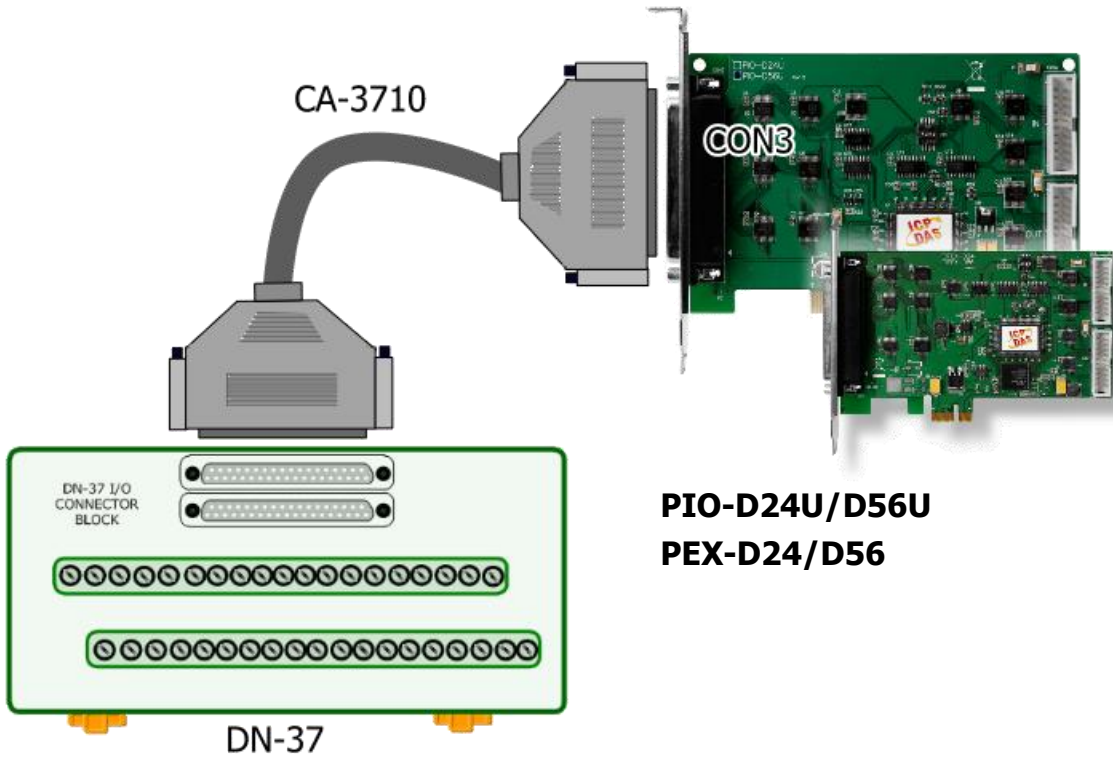
Pin Assignment	Terminal No.	Pin Assignment
DO 0	01	02 DO 1
DO 2	03	04 DO 3
DO 4	05	06 DO 5
DO 6	07	08 DO 7
DO 8	09	10 DO 9
DO 10	10	12 DO 11
DO 12	12	14 DO 13
DO 14	14	16 DO 15
GND	16	18 GND
+5V	18	20 +12V



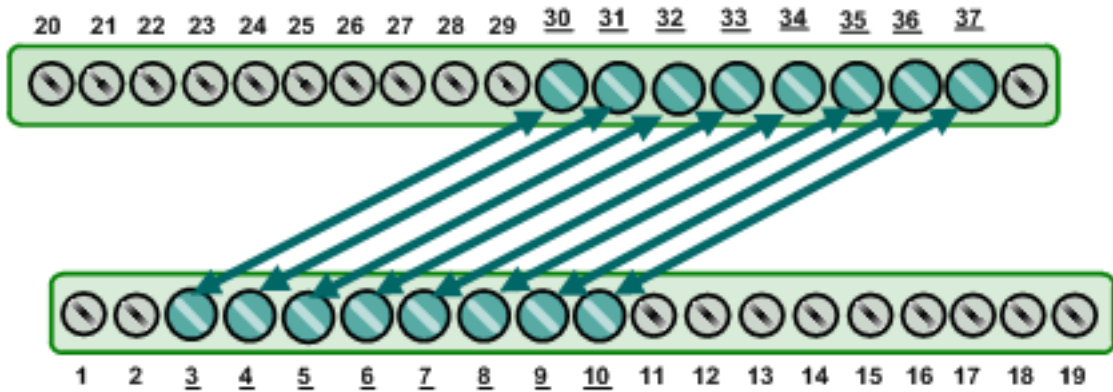
CON1 (PIO/PEX-D56 only)

5 Self-Test

1. Use the DN-37 (optional) to connect the CON3 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.

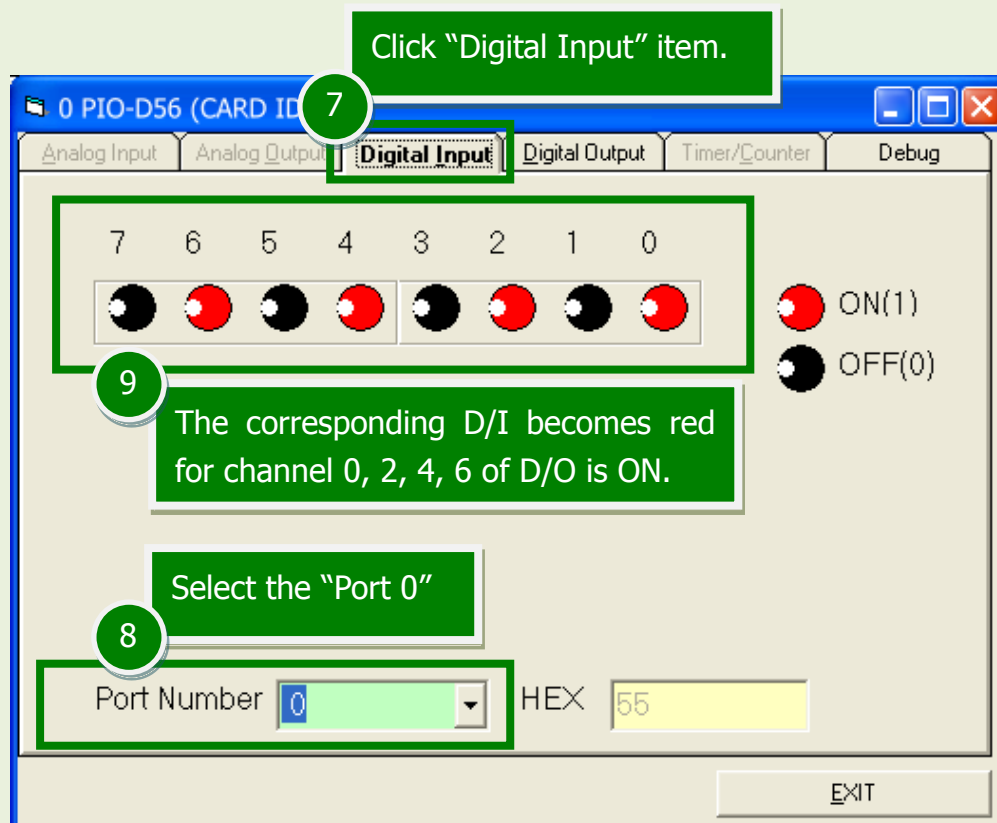
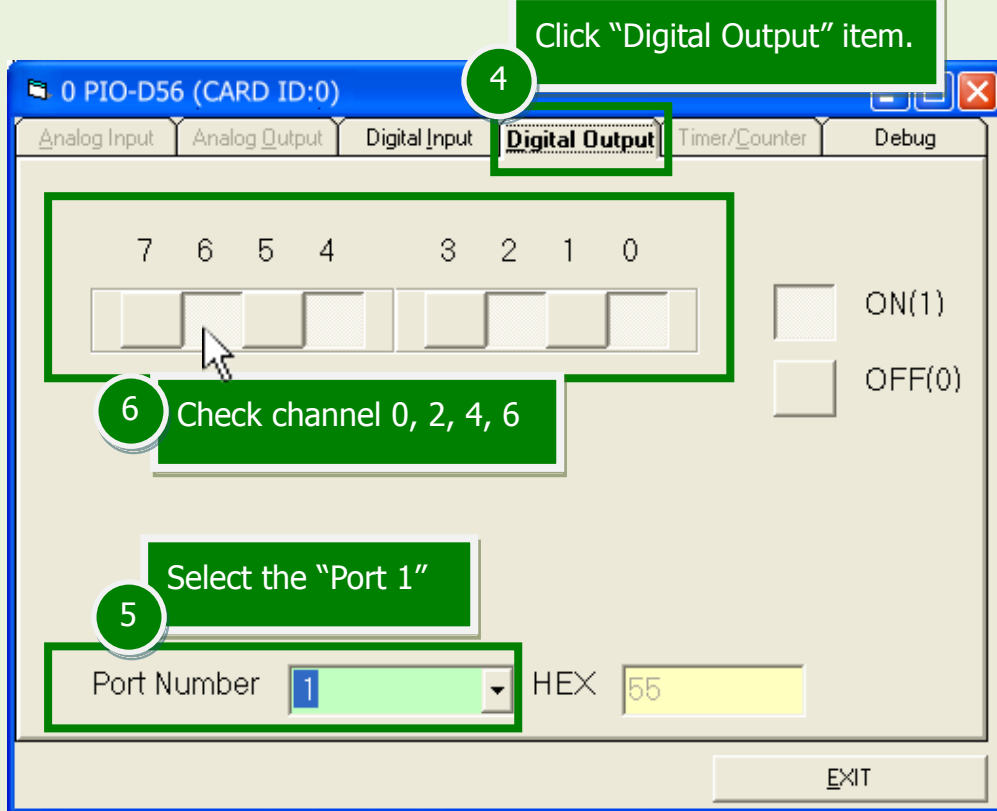
Default Path: C:\ICPDAS\UniDAQ\Driver\
 Double click the "UniDAQUtility.exe"



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 'UniDAQUtility' points to the desktop icon. A green callout box labeled '2' with 'Confirm the PIO-D24/D56 series card had successfully installed to PC. It starts from 0.' points to the '0 PIO-D56' entry in the 'Information Device' list. A green callout box labeled '3' with 'Click this button to start test.' points to the 'TEST' button. Other buttons visible are 'ABOUT' and 'EXIT'.

3. Get DIO function test result.



-Complete-

6

Related Information

- PIO-D24U/D56U and PEX-D24/D56 Series Card Product Page:
http://www.icpdas.com/root/product/solutions/pc_based_io_board/pci/pio-d24_56.html

- DN-37 and CA-3710 page (optional):
http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.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/>