## I/O CARD QUICK START GUIDE

## For A-626/A-628/A-726

English/ Jun. 2013/ Version 1.3

## What's in the shipping package?

#### The package includes the following items:



## **Installing Windows Driver**

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

- The Windows NT driver have support the Windows NT/2000 and 32-bit Windows XP/2003/Vista/7. (CD: \NAPDOS\ISA\A626\_628\DLL\_OCX\WINNT/Driver)
- The Windows 98 driver have support the Windows 95/98.
   (CD: \NAPDOS\ISA\A626\_628\DLL\_OCX\WIN98/Driver)

Web Download: http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a626\_628/dll\_ocx/

- Step 2: Click the "<u>Next></u>" button to start the installation.
- Step 3: Select the installed folder, the default path is C:\DAQPro\A626\_WinNT, confirm and click the "<u>N</u>ext>" button.
- Step 4: Select "No, I will restart my computer later" and then click the "Finish" button.

## SW1 and Jumper Settings

Please make sure D/A voltage range, interrupt jumpers and SW1 switch are kept in default setting before self-test.



#### D/A Voltage Range Setting (JPx):



#### IRQ Jumper Settings (Interrupt Level Selection):



For detailed information about the jumper and Switch settings, please refer to Sec. 2.2 and Sec. 2.3 of the user manual.

## **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 ISA slot.
- Step 4: Carefully insert your I/O card into the ISA slot.
- **Step 5: Replace the PC cover.**
- **Step 6: Power on the computer.**

After powering-on the computer, continue next process.

## **Pin Assignments**

#### Digital Output/Digital Input Connector:

A-628 CN3: Digital Output ch0 ~ ch15
A-626 CN3: Digital Output ch0 ~ ch15
A-726 CN1: Digital Output ch0 ~ ch15

Pin Assign- ment	Terminal No.				Pin Assign- ment
DO 0	01	0	0	02	DO 1
DO 2	03	0	0	04	DO 3
DO 4	05	0	0	06	DO 5
DO 6	07	Lo	0	08	DO 7
DO 8	09	0	0	10	DO 9
DO 10	11	0	0	12	DO 11
DO 12	12	Го	0	14	DO 13
DO 14	14	0	0	16	DO 15
GND	16	0	0	18	GND
+5V	18	0	0	20	+12V
A-628_CN3 A-626_CN3 A-726_CN1					

A-628 CN2: Digital Input ch0 ~ ch15	
A-626 CN4: Digital Input ch0 ~ ch15	

A-726 CN2: Digital	Input ch0 ~ ch15
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Pin Assign- ment	Terminal No.				Pin Assign- ment	
DI 0	01	0	0	02	DI 1	
DI 2	03	0	0	04	DI 3	
DI 4	05	0	0	06	DI 5	
DI 6	07	Lo	0	08	DI 7	
DI 8	09	0	0	10	DI 9	
DI 10	11	0	0	12	DI 11	
DI 12	12	Γo	0	14	DI 13	
DI 14	14	0	0	16	DI 15	
GND	16	0	0	18	GND	
+5V	18	0	0	20	+12V	
A-628_CN2 A-626_CN4 A-726_CN2						

WebSite: http://www.icpdas.com.tw E-Mail: service@icpdas.com, service.icpdas@gmail.com

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#### Analog Output Connector:

ICP DAS CO., LED

WebSite: http://www.icpdas.com.tw E-Mail: service@icpdas.com, service.icpdas@gmail.com

# **Self-Test**

#### **Digital Output/Input Wiring Test:**

1. Use the CA-2002 (optional) to connect the D/O with D/I connectors.



#### **Analog Output Wiring Test:**

- 2. Prepare for device: DN-37 or DN-20 (optional) wiring terminal board and Digital Multi-Meter.
- 3. Use the DN-37 or DN-20 to connect the D/A connector on the board, is illustrated in the figure below.



#### A-626/A-628/A-726 Quick Start Guide

ICP DAS CO., LED WebSite: http://www.icpdas.com.tw E-Mail: service@icpdas.com, service.icpdas@gmail.com 4. Wire the Multi-meter to D/A channel 0, and wire the signals as follows:

#### <u>A-626/A-628</u>

Connect the **positive probe (+) of Multi-meter** to **DA 0 V.OUT (Pin 01)**, and then the **negative probe (-) of Multi-meter** to **A.GND (Pin 04)**.



#### <u>A-726</u>

Connect the **positive probe (+) of Multi-meter** to **DA\_0 V.OUT (Pin 05)**, and then the **negative probe (-) of Multi-meter** to **A.GND (Pin 16)**.



#### **Execute the Test Program:**

5. The A62xDiag.exe will be placed in the default path after completing installation.

Default Path: C:\DAQPro\A626\_WinNT\Diag\ Double click the "A62xDiag.exe"



A62xDiag.exe	Support ISA Card
A626Diag.exe	A-626 and A-726 card
A628Diag.exe	A-628 card

#### 6. Execute to D/I/O and D/A function test.

- (1): Type the "2CO" in the S1:base address[hex] file for the A-626/628/726 series card to activate. (Meet to SW1 setting on board)
- (2): Click channel 0, 2, 4, 6 in the Digital Output Set field.
- (3): Select the "0 to 5V" in the Hardware Set field. (Meet to D/A jumper setting on board)
- (4): Type the voltage value in the Output Val field.
- (5): Click this button to start test.



#### 7. Get D/I/O and D/A function test result.

(6): Confirm the corresponding D/I becomes red for channel 0, 2, 4, 6 of D/O is ON.
(7): Confirm the value on multi-meter, they should be identical to the values set in program.
(*The value read on meter may be a little difference from the DA value because of the resolution limit of meter or the measurement error.*)

💋 Diagnostic Program for A626			
A626_DaFloat()       Outnut-Val         Hardware Set       Outnut-Val         CH·       0 to 5 ✓       2.0         CH:       0 to 5 ✓       1.0         CH·       0 to 5 ✓       3.0         CH:       0 to 5 ✓       3.5         CH:       0 to 5 ✓       4.0	Digital Output Set		
S1: Base <sup>4</sup> (ir [hex]: 200 7	2.00	PASS	

## **Related Information**

- A-626, A-628 and A-726 Series Card Product Page: <u>http://www.icpdas.com/products/DAQ/pc\_based/a-626&8.htm</u>
- DN-37, DN-20, CA-3710 and CA-2002 page (optional): <u>http://www.icpdas.com/products/DAQ/screw\_terminal/dn\_37.htm</u> <u>http://www.icpdas.com/products/DAQ/screw\_terminal/dn\_20.htm</u> <u>http://www.icpdas.com/products/Accessories/cable/cable\_selection.htm</u>
- Documentation and Software: CD:\NAPDOS\ISA\A626\_628\ <u>http://ftp.icpdas.com/pub/cd/iocard/isa/napdos/isa/a626\_628/</u>