

Language Version Update English V1.2 Jun.2009

What's on your package?

- One PISO-P32S32WU series card
- > One companion PCI CD (V4.1 or later)
- One Quick Start Guide(This document)

Installing Windows Driver

Follow these steps:

1. Setup the Windows driver.

The driver is location at: CD:\NAPDOS\PCI\PISO-DIO\DLL_OCX\Driver\ http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/dll_ocx /driver/



Follow these steps:

- 1. Shut down and power off your computer.
- 2. Remove the cover from the computer.
- 3. Select an unused PCI slot.
- 4. Carefully insert your I/O card into the PCI slot.
- 5. Replace the PC cover.
- 6. Power on the computer.

After powering-on the computer, please finished the Plug&Play steps according to the prompt message.



Pin Assignments

• •

٠

•

. . .

CON1 DO Exte	rnal	\frown					
GND(-)	1	••]	20	CON1 DO External GND(-)			
DI 0	2		21	DO0 for high drive			
DI 1	3		22	DO1 for high drive			
DI 2	4		~~~	DOI for high drive			
DI 3	5		23				
DI 4	6		24	DO3 for high drive			
DI 5	7		25	DO4			
DIG	8		26	DO5			
D17	0		27	DO6			
10	9		28	D07			
DI 8	10		29	DO8			
DI 9	11	••	30	DO9			
DI 10	12		31	DO10			
DI 11	13		22	D010			
DI 12	14		32	DOTT			
DI 13	15		33	D012			
DI 14	16		34	DO13			
DI 15	17		35	DO14			
GND for High driv	e18		36	DO15			
CND for High drive19			37 CON1 External				
GND for High driv	e 19	(• /					
		\checkmark					

CON1 Pin assignment

CON2 Pin assignment

CON2 DO External				CON2	DO External	CON2	DO External	\frown		
GND(-)	1		• 2	2 GND(-)		GND(-)			0	ON2 DO External
DI 16	3		• 4	DO16 fo	r high drive		DI 16 2		20 6	JND(-)
DI 17	5		• •	DO17 fo	r high drive		DI 17 3		21 L	0016 for high drive
DI 18	7		• I 8	B DO18 fo	r high drive		DI 18 4		22 C	017 for high drive
DI 19	9		• 1	0 DO19 fo	r high drive		DI 19 5		23 C	O18 for high drive
DI 20	11		1	2 DO20					24 C	O19 for high drive
DI 21	13		• 1	4 DO21					25	DO20
DI 22	15		• 1	6 DO22	Extension	cable:			26	DO21
DI 23	17	hè	1	8 DO23	Extension				27	DO22
DI 24	19			0 DO24			DI 23 9		28	DO23
DI 25	21			2 DO25	DB-40-Pin co	onversion	DI 24 10		29	DO24
DI 26	23			4 0.026	DB-37-Pin (C	A-4037B)	DI 25 11		30	DO25
DI 27	25			6 DO27		// /00/2/	DI 26 12		31	DO26
DI 29	23			• 0020			DI 27 13		22	DO27
D128	21			0 DO20			DI 28 14		32	DOZI
DI29	29			0 0029			DI 29 15		33	D028
D130	31			2 DO30			DI 30 16		34	DO29
DI 31	33			4 DO31			DI 31 17		35	DO30
GND for High drive	35		• 3	6 CON2 E Power (+	xternal ·)	GND for H	ligh drive18		36	DO31
GND for High drive	37	• '	• 3	8 N.C.		GND for H	ligh drive19		37 C F	ON2 External
N.C.	39	• (• 4	0 N.C.			ngii antero			
								\sim		

CON2 Pin assignment

> Wiring Note:





O.C Output Type & Notice

High Driving Channel:

Open collector N-channel Power FET (BPS75N). Max. Sink current (NPN) is 500mA for each channel. DO_0~3 & DO_16~19.

Low Driving Channel:

Open collector NPN/PNP Transistor. Max. Sink Current is 100mA for Each Channel DO_4~15 & DO_20~31.

(%Recommend: It is necessary to connect a diode in the External Device end as means of preventing damage from the counter emf. If your External Device is



To prevent the board damaged forever by overload, the GND pins (CON1: pin 1/18/19/20, CON2: pin 1/18/19/20) all must be connected with GND of External Power.



- 1. Prepare for device:
- ✓ DN-37(Optional) wiring terminal board.
- ✓ Exterior power supply device. *For example: DP-665(Optional)*
- 2. Use the DN-37 to connect the board CON1.
- 3. Connect the DI(0-15) with DO(0-15) \rightarrow DI0 with DO0 ... DI15 with DO15
- 4. Supply the External Power +24 V to External Power(+). Supply the External Power GND to External Power GND(-) and GND for High Drive.

(External +24 V connect to Pin37;

External GND connect to Pin01, Pin18, Pin19, Pin20)

(%Suggested that use external power for upwards of +12 V)



5. Execute the PISO-P32C32 sample program.

The sample program is contained in a zip file which is located at:

CD:\NAPDOS\PCI\PISO-DIO\DLL_OCX\Demo\

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/dll_ocx/demo/

6. Check the board number of the PISO-P32S32WU, and test DIO (0-15) functions.



7. Get DIO(0-15) function test result.



Additional Information

✓ PISO-P32S32WU Series Card Product page:

http://www.icpdas.com/products/DAQ/pc_based/piso-p32s32wu.htm

.

✓ DP-665(Optional) and DN-37(Optional) page:

http://www.icpdas.com/products/Accessories/power_supply/dp-665.htm http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm

CA-3710(Optional) and CA-4037B page:

http://www.icpdas.com/products/Accessories/cable/cable_selection.htm

Documentation:

CD:\NAPDOS\PCI\PISO-DIO\Manual http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/manual/

✓ Software:

CD:\NAPDOS\PCI\PISO-DIO http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-dio/

The ICP DAS Web Site

http://www.icpdas.com



Contact Us

- Technical support
- Supplies and ordering information
- Methods of enhancing your device
- FAQ
- Application story

Service@icpdas.com

Copyright ©2009 by ICP DAS Co., Ltd. All right are reserved