

Quick Start Guide for PDS-800 Series

Language	English
Version	V1.0
Update	Aug.2009

What's on your package?

- 1. One PDS-800 series device
- 2. One software utility CD
- 3. One download cable (CA-0910)
- 4. One Quick Start Guide (This document)



Preparations for start-up the PDS-800

- 1. If you have a serial module (*Ex: I-8114iW*), insert it in PDS-800 controller.
- 2. Power Supply : +10 ~ +30 VDC (*Ex: DP-665*) http://www.icpdas.com/products/Accessories/power_supply/power_list.htm
- **3.** Ethernet hub (*Ex: NS-205*) http://www.icpdas.com/products/Switch/industrial/industrial_list.htm
- 4. Make sure your PC has workable network settings.
- Disable or well configure your Windows firewall and Anti-Virus firewall first, else the "Search Servers" on page 3 may not work. (Please contact with your System Administrator)





- **<u>1.</u>** Connect both the PDS-800 controller and your computer to the same sub network or the same Ethernet Switch.
- 2. Short the RxD and TxD pins of the PDS-800 controller for self-test.
- 3. Short the TxD1 (Pin 19) and RxD1 (Pin 37) pins of the 4-Port I-8114iW module for example of self-test.
- 4. Supply +24 VDC (+10 ~ +30 VDC) power to the PDS-800 controller.



The software is located at: CD: \NAPDOS\Driver\VxComm_Driver http://ftp.icpdas.compub/cd/8000cd/napdos/driver/vxcomm_driver/

5 Configuring Ethernet settings

- **1.** Execute the VxComm Utility and then search your PDS-800 controller.
- 2. Double click the name of the PDS-800 to open the Configure Server dialog box.

In the second se			
<u>File S</u> erver <u>P</u> ort <u>T</u> ools			
Configure Server	Configure Port		
VxComm Servers	Port Virtual COM Baudrate		
Click the "Search Servers" button to search your PDS-800.			
Web Configure	2		
Search Search Name Alias IP Address Sub-nr	Double click your PDS-800 on the list.		
Configure Serv Name Alias IP Address Sub-net	Mask Way MAC Address		
PDS-811:1-4 N/A 192.168.255.1 255.255	5.255.0 192.168.0.1 00:0d:e0:e0:37:2b		
iPAC8K:4-00 N/A 10.0.8.9 10.0.8.2	254 10.0.9.254 00:0d:e0:e0:eb:17		
Exit			
Status			

3. Contact your Network Administrator to obtain a correct network configuration (such as IP/Mask/Gateway). Enter the network settings and then click <u>"OK"</u>. The PDS-800 controller will be restarted itself immediately.

Configure Server	(UDP) IP	Configure	the Ethernet Sub-net Ma	settings sk. Gatewa
Server Name	3 DS-811:1-4			
IP Address :	10.0.8.246	mas:		(7 Chars)
Sub-net Mask	255.255.255.0	MAC:	00:0d:e0:e0:37:	2b
Gateway :	10.0.8.254	DHCP:	0: OFF 🔹	
Warning!! Contact your N correct configu	etwork Administrator to Iration before any chang	get 4 ging!	ОК	Cancel

Configuring Virtual COM Ports

1. Click the "Search Servers" button again to search PDS-800 to ensure the new configuration of PDS-800 is working well. Then click your PDS-800 on the list to select it.



2. Click the "Add Server [s]" button. Assign a COM Port number and click <u>"OK</u>" to save your settings.

of YxComm Utility [v2.9.5, Nov.1	3, 2008]		
<u>File S</u> erver <u>P</u> ort <u>T</u> ools			
	Configure Server	Configure Port	
driver & utility	VxComm Servers	Port Virtual COM Baudrate	
Where remote serial deprices			
3 become part of your PC	Adding Servers	X	
Add Server(s)	IP Range Advanced Options		
	Server Information		
X Remove Se	Server Name :	Get name automatically	
	IP Bange Start : 10.0.9.246		
Web Configuration		Skip duplicated IP	
	10 Range End : 10.0.8.246		
Search Servers	Includes the following species As	sign a COM Port number	
Configure Server (UDP)			
	Virtual CO. J Port Mappings		
	COM Port: COM2		
	Fixed bau rat COM2	s of servers.	
	Maps virtual (COM4 rt /0	" on servers.	
Exit	COM5 COM6		
Status		5	
	СОМВ	OK Cancel	
1	Сом10		

3. Click on PDS-800 name or slot that your module plugged in, and then check the Virtual COM port numbers on the PC.



4. Click <u>"Tools"</u> >> <u>"Restart Driver"</u>, and then click the "Restart Driver" button to start the driver.



Testing your PDS-800

1. Right click Port 1 and then choose the <u>"Open COM Port"</u> item.



2. Check that the configuration of the COM Port is correct and then click the <u>"Open COM</u>" button.

Configuration S	etting - ICP DAS C	o., Ltd.			×
COM Port TC COM Port :	Check that the then click t	e configuration is c the "Open COM"	correct and button	$\mathbf{\hat{\mathbf{b}}}$	
Baudrate :	11520 -	Parity Bit :	None	•	
4	Open COM	Stop Bits :	1	•	

Type a string in the send field then click the <u>"Send"</u> button.
If a response is received, it will be displayed in the received field.



Testing your serial modules (Optional)

- 1. Click <u>"Slot 1"</u> and right click Port 10 and then choose the <u>"Open COM</u> <u>Port"</u> option. (Such as Sec.7-1, P6)
- 2. Check that the configuration of the COM Port is correct and then click the <u>"Open COM</u>" button. (Such as Sec.7-2, P6)
- 3. Type a string in the send field then click the <u>"Send"</u> button. Check whether the response is the same with the string sent or not. (Such as Sec.7-3, P7)
- 4. If the test is successful, other COM port programs will be able to work directly with using the Virtual COM Port.
- 5. While using RS-485 modules (*Ex: I-8144iW*), you should wire the Data1+ with Data2+ signals, and wire the Data1- with Data2- signals for self-test. Then open the first two COM ports, send data to one and receive data from the other.

Additional Information

PDS-800 Series Product page:

http://www.icpdas.com/products/Industrial/pds/pds-8x1.htm

PDS-800 Documentations : CD:\Napdos\pds\pds-8x1\document\ http://ftp.icpdas.com/pub/cd/8000cd/napdos/pds/pds-8x1/document/

PDS-800 firmware :

CD:\Napdos\pds\pds-8x1\vxcomm\server(pds)\ http://ftp.icpdas.com/pub/cd/8000cd/napdos/pds/pds-8x1/vxcomm/ser ver(pds)/

ICP DAS Web Site http://www.icpdas.com



Contact Us Service@icpdas.com

- Technical support
- Supplies and ordering information
- Information related to upgrades, new technologies, products and solutions
- FAQ
- Application stories

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