

Quick Start Guide for iPAC-8000

August 2010, Version 1.3

Congratulations!

Congratulations on purchasing iPAC-8000 - the most popular automation solution for remote monitoring and control application. This Quick Start Guide will provide information needed to get started. Please also consult the User Manual for detailed information on the setup and use of iPAC-8000.

What's In the Box?

In addition to this guide, the package includes the following items:



iPAC-8000 So (iP-8841/iP-8811/iP-8441/iP-8411)







Software Utility CD

RS-232 Cable S (CA-0915)

Screw Driver (1C016)

Technical Support

• iPAC-8000 User Manual

CD:\NAPDOS\iPAC8000\Document\ http://ftp.icpdas.com/pub/cd/8000/napdos/ipac8000/document/

- iPAC-8000 Website
 <u>http://www.icpdas.com/products/PAC/i-8000/Main_Control_Unit.htm</u>
- ICP DAS Website
 http://www.icpdas.com/

1 ---

Configure the Boot Mode

Before starting any installation, be sure that the switch is placed in the "Run" position.



2 Connecting to PC/Laptop and Setting up the Power

This package includes a RS-232 cable for connecting the iPAC-8000 to PC/Laptop.

The iPAC-8000 has the power supply interface for supplying power from the power supply.



If PC/Laptop has no COM port, you can use the I-7560 (USB to RS-232 converter) for connection between iPAC-8000 and PC/Laptop.



Before using the I-7560 converter, you must install the USB driver.

The USB driver can be obtained from: http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/756x/

After installing the USB driver, please check the "Device Manager to make sure the driver has been installed and the COM port number which is assigned to USB interface.



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Inserting and Wiring the I/O Modules

There are various types of I/O expansion modules for interfacing many different field devices to the iPAC-8000.



For more information about I/O expansion module, please refer to <u>http://www.icpdas.com/products/PAC/i-8000/8000_IO_modules.htm</u>

4 Installing the DCON Utility

DCON Utility is an easy-to-use tool designed for communicating with DCON protocol I/O modules.

Step 1: Get the DCON Utility



The DCON Utility can be obtained from companion CD or our FTP site: CD:\Napdos\8000\NAPDOS\Driver\DCON_Utility\setup\ http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/



After the installation has been completed, there will be a new short-cut for DCON Utility on the desktop.

🖉 Setup - DCON_Utility	
	Welcome to the DCON_Utility Setup Wizard This will install DCON Utility Ver 5.1.7 on your computer. It is recommended that you close all other applications before continuing. Click: Next to continue, or Cancel to exit Setup.
	Next> Cancel

5 Using DCON Utility to Configure the I/O Modules

To configure the I/O modules, a communication must be made with the iPAC-8000 via DCON Protocol. The DCON Utility is the DCON Protocol Utility that can used to make the communication between the iPAC-8000 and PC/Laptop.



dcon_utility... Double-click the DCON Utility shortcut on your desktop.



Step 2: Select COM port number which is used for connection

Click "COM Port" from the menu, a dialog box will appear.

In the dialog box, select COM port number which is used for connection between iPAC-8000 and PC/Laptop.

	🦉 Select the COM Port and Baud Rate 🛛 🛛 🔀	
File COM Port Search Run	COM to search: Time Out Setting :	
module Address Baudrate: Che	COM1 100 ms 100 ms COM2 COM3 COM4 TCP 450300 230400 115200 57500 38400 19200 9600 4800 2400 1200 Select All Clear All PDS&PPDS-700	
	Protocol Option	
- Searching Status: COM Port: COM 3	🔽 DCON 🗖 Modbus RTU 🗖 Modbus ASCII 👂	Bit: 1
	Checksum Option ✓ Disable ✓ Enable	
	Parity Option:	
	▼ None (N,8,1)	
	☐ None (N,8,2) ☐ Odd (0,8,1)	
	Industry Computer RS-485 Port Option RTS_CONTROL_TOGGLE Set_RTS (for Vision Box)	
	Cancel Ok	

Step 3: Search the I/O Modules



Click "Start Search" button from the toolbox to search the I/O modules.

Step 4: Click on the name of the module to enter the configuration form

After searching has been completed, that will display a list of the iPAC-8000 and its expansion I/O modules.

Click on the name of the module to enter the configuration form.

	🖉 Configuration for 8024 Module Version: A100	
DCON_UTILITY_YER[519 beta1] The File COM Port Search Run Terminal Lan	Channel0 Output value Output range: B210 → 10 V ▼ Dataformat: Engineering Unit Slew rate: immediate change ▼ Setting Output value	5)
Imodule Address Che IP-8411 7(7) 11520 Ena 8024(87K) S2 115200 Ena	Channell Output range: [32] 0 ~ +10 V ▼ Dataformat: Engineering Unit Slew rate: mmediate change ▼ Setting Setting	
	Channel2 Output range: [32] 0 ~ +10 V ▼ Dataformat: Engineering Unit Slew rate: mmediate change ▼ Setting Setting	
Searching Status: COM Port: COM 1 Ac	Channel3 Output value Output range: [32] 0 ~ +10 V ▼ Dataformat: Engineering Unit Slew rate: immediate change ▼ Setting Output value	Stop Bit: 1
	Exit	

Channel0		– Output val	ue				
Output range:	[32] 0 ~ +10 V	I w	Wire Status is OK				
Dataformat:	Engineering Unit	il U					
Slew rate:	immediate change 💌	Í	5	10 Y			
	Setting	Output value	+00.000	Setting as Start-Up			
Channel1		Output val	ue				
Output range:	[32] 0 ~ +10 V 💌	1 . "	rire Status is UK				
Dataformat:	Engineering Unit		5	10 V			
Slew rate:	immediate change 🔽		+00.000	10 <u>1</u>			
	Setting	Output value	+00.000	Setting as Start-Up			
Channel2		Output val	ue				
Output range:	[32] 0 ~ +10 V	1 . "	rire Status is UK				
Dataformat:	Engineering Unit		5	10 V			
Slew rate:	immediate change 💌		+00.000				
	Setting	Uutput value		Setting as Start-Up			
Channel3		Output val	ue fire Status is OK				
Output range:	[32] 0 ~ +10 V 💌] _ "					
Dataformat:	Engineering Unit						
Slew rate:	immediate change] 0	5	10 ⊻			
	Setting	Output value	+00.000	Setting as Start-Up			
		Exit					

Additional Information

After you have finished configuring the I/O modules, then you can start developing your own applications, for detailed instructions and more applications, please refer to iPAC-8000 User Manual.