

Quick Start for μPAC-5001D-CAN2

Jane 2016, Version 1.0.1

Congratulations!

Congratulations on purchasing µPAC-5001D-CAN2 - the most popular automation solution for remote monitoring and control application. This Quick Start will provide information needed to get started with µPAC-5001D-CAN2. Please also consult the User Manual for detailed information on the setup and use of μPAC-5001D-CAN2.

What's In the Box?

In addition to this quick start, the package includes the following items:



µPAC-5001D- CAN2



Screw Driver (1C016)





Software Utility CD

Core (4SIO1K0000014)

RS-232 cable (CA-0910)

- **Technical Support**
- µPAC-5001D-CAN2 User Manual

CD:\fieldbus cd\can\pac\upac-5001D-CAN\document\ ftp://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/can/pac/upac-5001d-can/document/

• µPAC-5001D-CAN2 Website

http://www.icpdas.com/root/product/solutions/industrial communication/fieldbus/can bus/pac/upac-5001d.html

• ICP DAS Website http://www.icpdas.com/

1 Connecting to PC, Network and Power



The LED indicators and 5-digit 7-Segnment LED display are on the front panel that provides a very convenient way of displaying information for faster, easier diagnostics.

Indicator	State	Meaning		
L1	Flashing	User programmable LED		
L2	OFF	User programmable LED		
Link (G)	Permanently on	Ethernet link detected		
	Permanently off	No Ethernet link detected		
	Flashing green	Ethernet packet received		
CL1	OFF	User programmable LED		
CL2	OFF	User programmable LED		
CL3	OFF	User programmable LED		



2 Configuring Boot Mode

Make sure the "Lock" switch is placed in the "OFF" position; the "Init" switch is placed in the "ON" position.

3 Connecting to PC, Network and Power

The μ PAC-5001D-CAN2 is equipped with a standard Ethernet port (RJ-45) for connecting to an Ethernet Hub/Switch and PC. Moreover, you can also connect the PC directly with an Ethernet cable.



4 CAN BUS Pin Assignment

Before using μ PAC-5001D-CAN2, you must know the CAN BUS pin assignment. CAN DEVICE



5 Terminal Resistor Jumper Selection



6 Installing the MiniOS7 Utility

Step 1: Obtain the MiniOS7 Utility



The MiniOS7 Utility can be obtained from companion CD or our FTP site: CD:\Napdos\minios7\utility\minios7_utility\

ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/minios7/utility/minios7_utility/

Step 2: Follow the prompts to complete the installation

After the installation has been completed, there will be a new shortcut for MiniOS7 Utility on the desktop.





7 Using MiniOS7 Utility to Assign a New IP

The μ PAC-5001D-CAN2 is Ethernet devices, which comes with a default IP address, therefore, you must first assign a new IP address to the μ PAC-5001D-CAN2.

The factory default IP settings are as follows:

Item	Default
IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

Step 1: Run the MiniOS7 Utility

Double-click the MiniOS7 Utility shortcut on your desktop.



Step 2: Press "F12" or choose "Search" from the "Connection" menu

After pressing "F12" or choosing "Search" from "Connection" menu, the "MiniOS7 Scan" dialog will appear, that will display a list of all the MiniOS7 modules on your network.

🚧 MiniOS	7 Utility Verion	3.1.1 (build	3.1.1	.1)						
🔊 File	Connection 5	Command 🛐	Co	🖄 Mini	OS7 Sca	n.				[
Look jn: Name	Last Connection Disconnect	A' -2 Siz	e	<u>Fa</u> Search	July Contract of C	<u>E</u> onnect	Dear Clear	IP setting	2 <u>H</u> elp	2
FIRMW	VARE 63			Туре		IP/Port	Nar	ne		Alia
05_IM	AGE /	16	B	UDP F	oll	192.168.25	5.1 <mark>uP</mark> 4	\C-5001		
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					See t	the statu he searc	us tip, v h to be	waiting fo e done.	or	

Step 3: Choose the module name and then choose "IP setting" from the toolbar

Choose the module name for fields in the list, and then choose "IP setting" from the toolbar.

ä	MiniOS7 Sca	n			
4	A L		> 6		
S	earch Options	Connect	Clear IP setting	Help Loga	1 10
	Туре	IP/Port	Came	Alias	
Þ	UDP Poll	192.168.255	uPAC-5001		
					IP setting
<	B j klasse i				In second
Ces	with done				

Step 4: Assign a new IP address and then choose "Set" button

🖄 IP Setting	
Recommend Settings	Step 5: Choose the "Yes" button
IP: 10.1.0.99	
Mask: 255.255.0.0	After completing the settings, press the "Yes"
Gateway: 10.1.0.254	to exit the procedure.
Alias: ×	Confirm
DHCP Disable	2 IP setting success. Do you want to leave IP setting dialog! <u>Yes No</u>
Set Cancel	Don't close this application. You need to use it to download files into the module.

8 Using MiniOS7 Utility to upload firmware into module

A number of demo programs are available with μ PAC-5001D, which can be obtained from:

CD:\ Napdos\upac-5000\Demo\

http://ftp.icpdas.com/pub/cd/8000cd/napdos/upac-5000/demo/

A number of demo programs are available with μ PAC-5001D-CAN2, which can be obtained from:

CD:\fieldbus_cd\can\pac\upac-5001D-CAN\Demo\

ftp://ftp.icpdas.com.tw/pub/cd/fieldbus cd/can/pac/upac-5001d-can/demo/

Before downloading the programs, you must first establish a connection between the Host PC and the μ PAC-5001D-CAN2.

Step 1: Press "Search" from the toolbar and then double-click the module name

After pressing "Search" from the toolbar, the MiniOS7 scan dialog will display a list of all the MiniOS7 modules on your network. Then double-click the module name to establish a connection between PC and μ PAC-5001D-CAN2.



Step2: Click the "Look in" pull-down menu to locate the firmware (*.exe) and then drag-and-drop the file(s) from the PC side to the module side

Here we illustrate the firmware upload procedure by using "all_demo.exe" as an example. After the connection is established, click the "Look in" pull-down menu to find the firmware (*.exe), then drag-and-drop the file(s) from the PC side to the module side. The "all demo.exe" can be obtained from:

CD:\fieldbus_cd\can\pac\upac-5001D-CAN\demo\ bc_tc \all_demo\ ftp://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/can/pac/upac-5001d-can/demo/bc_tc/all_demo/



Step 3: Right-click the ROTARY.exe in the module side and select "Run" to run the firmware

After the **all_demo.exe** file has been downloaded to the μPAC-5001D-CAN2, right-click the "all_demo.exe" file in the module side and select "Run" to run the program.



After running the **all_demo.exe** file in the μ PAC-5001D-CAN2, it will open the following window and send/receive CAN message.

9 Core's application and wiring



Core(Ferrite) is useful to reduce Electro Magnetic Interference(EMI) and anti-noise, it mainly uses for communication interface like RS-232, RS-422, RS-485, CAN Bus, FRNET, PROFIBUS, Ethernet, etc. And it also uses for the cable of power supply side.

The below photos is the wiring of the core on CAN Bus side.

