

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



Software Utility CD



RS-232 cable (CA-0910)



Screw Driver (1C016)



Core (4SIO1K0000014)

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

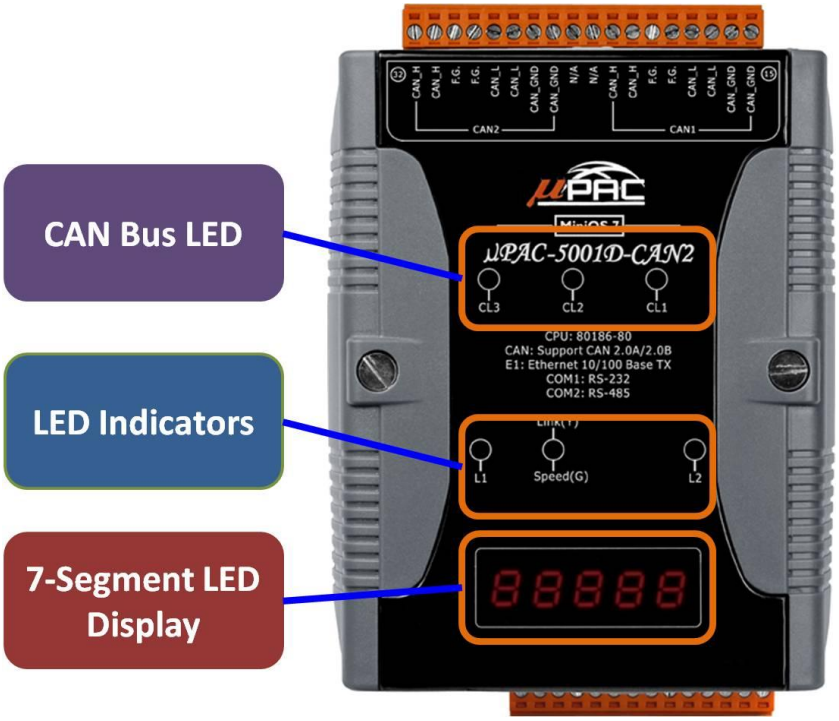
- **ICP DAS Website**

  http://www.icpdas.com/

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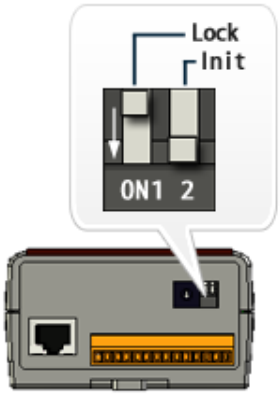
1 Connecting to PC, Network and Power



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



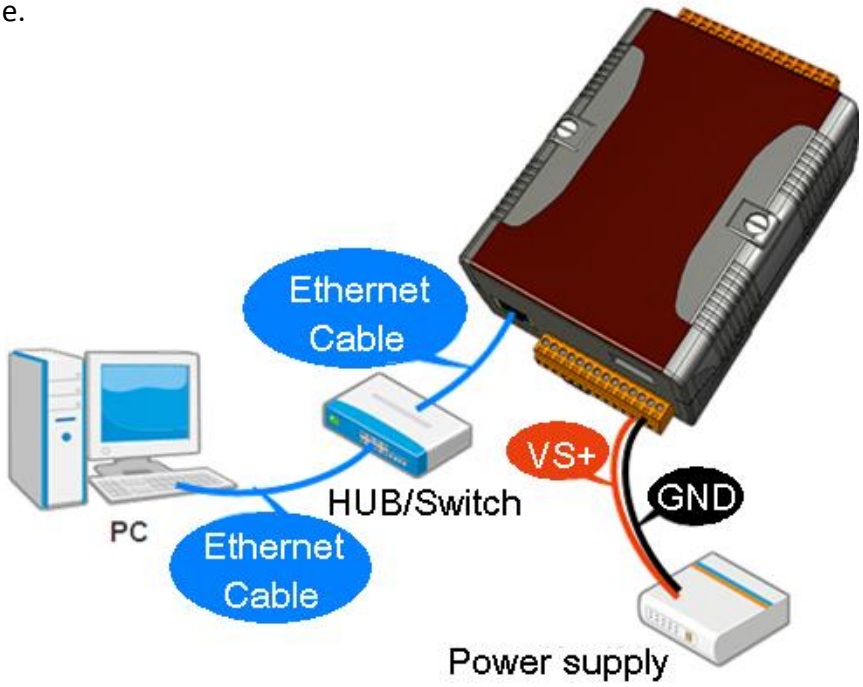
Make sure the "Lock" switch is placed in the “OFF” position; the "Init" switch is placed in the “ON” position.

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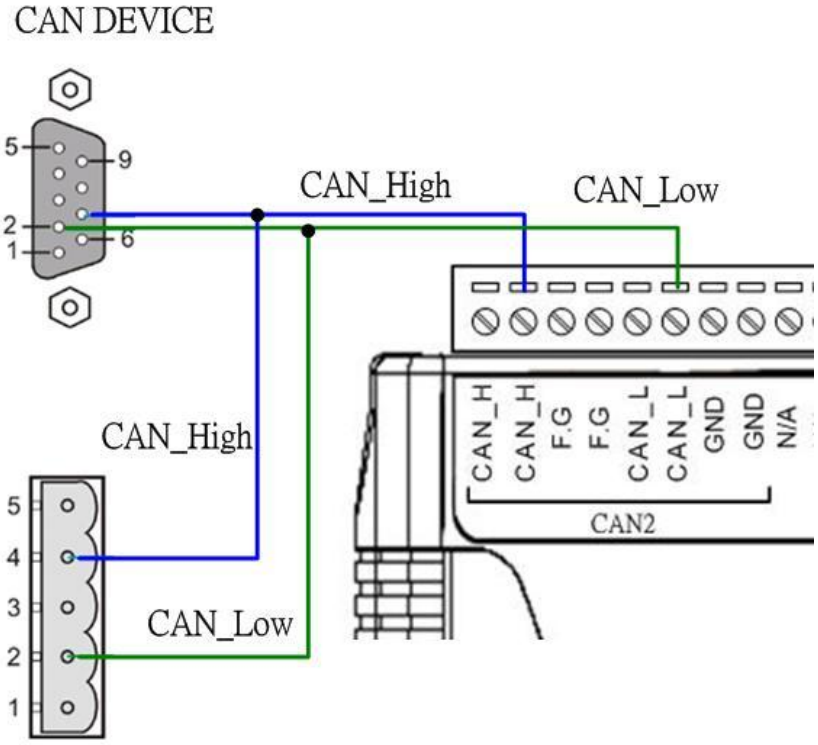
3 Connecting to PC, Network and Power

The µPAC-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 µPAC-5001D-CAN2, you must know the CAN BUS pin assignment.

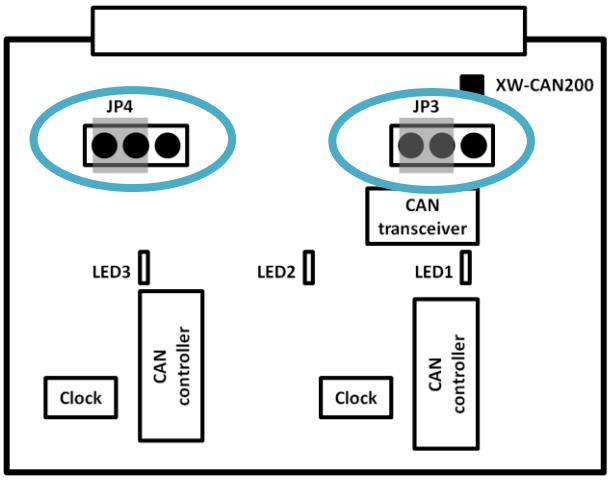


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5 Terminal Resistor Jumper Selection

Apply the termination resistor(120Ω)	Don't apply the termination resistor
	



6 Installing the MiniOS7 Utility

Step 1: Obtain the MiniOS7 Utility



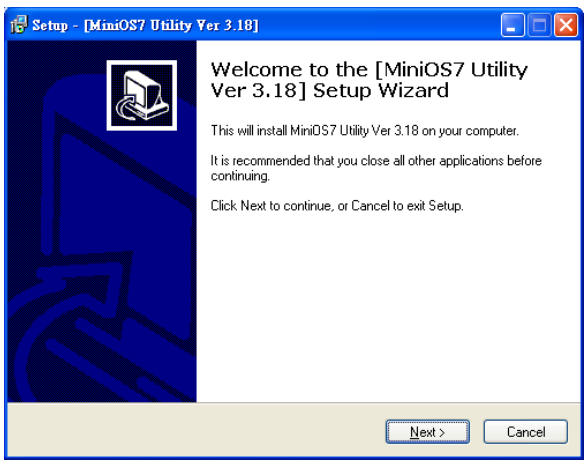
The MiniOS7 Utility can be obtained from companion CD or our FTP site:
CD:\Napdos\minios7\utility\minios7_utility\

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.





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7 Using MiniOS7 Utility to Assign a New IP

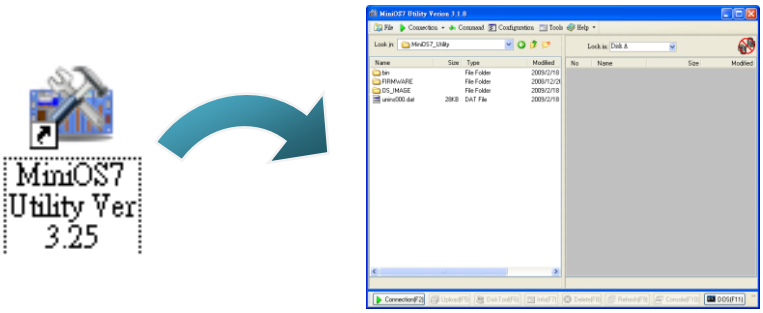
The µPAC-5001D-CAN2 is Ethernet devices, which comes with a default IP address, therefore, you must first assign a new IP address to the µPAC-5001D-CAN2.

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

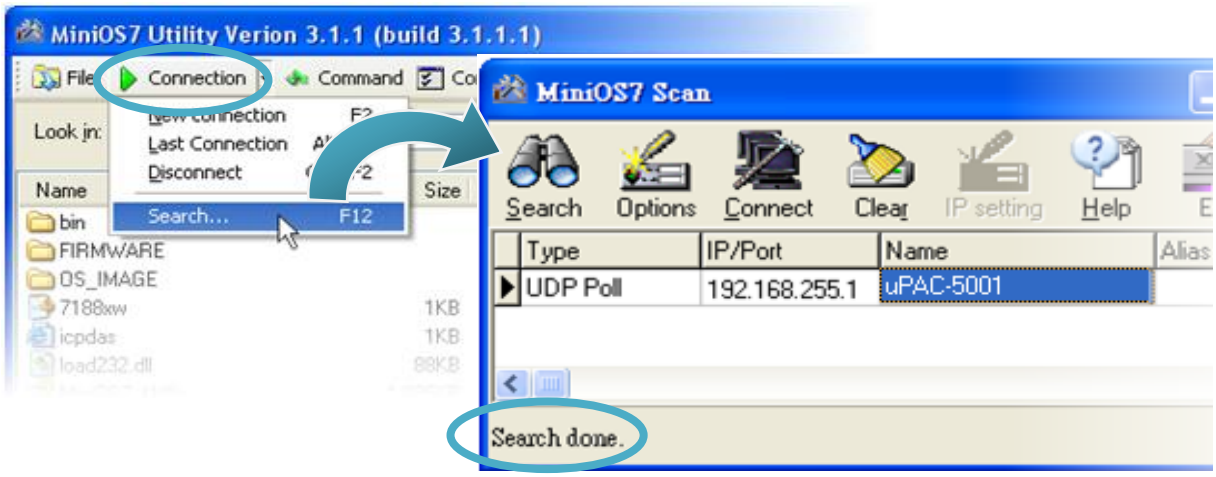
Step 1: Run the MiniOS7 Utility

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.



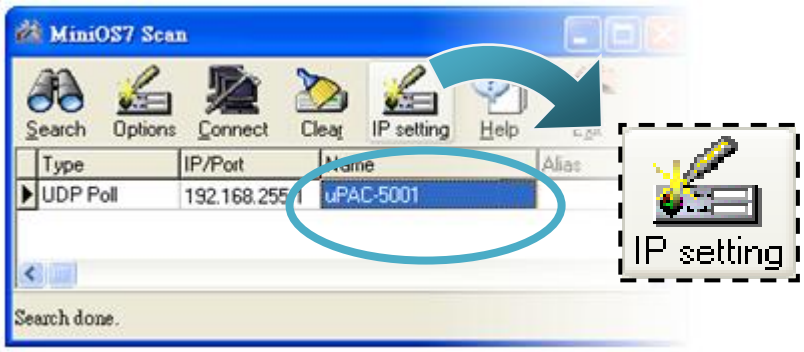
See the status tip, waiting for the search to be done.

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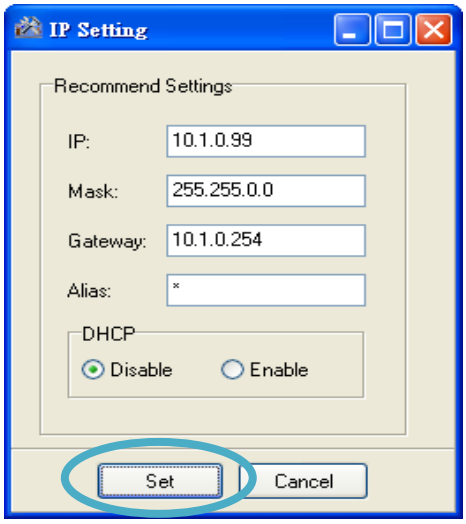
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Step 3: Choose the module name and then choose “IP setting” from the toolbar

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

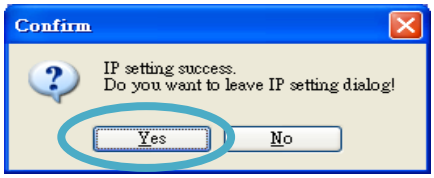


Step 4: Assign a new IP address and then choose “Set” button



Step 5: Choose the “Yes” button

After completing the settings, press the “Yes” to exit the procedure.



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 µPAC-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 µPAC-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/

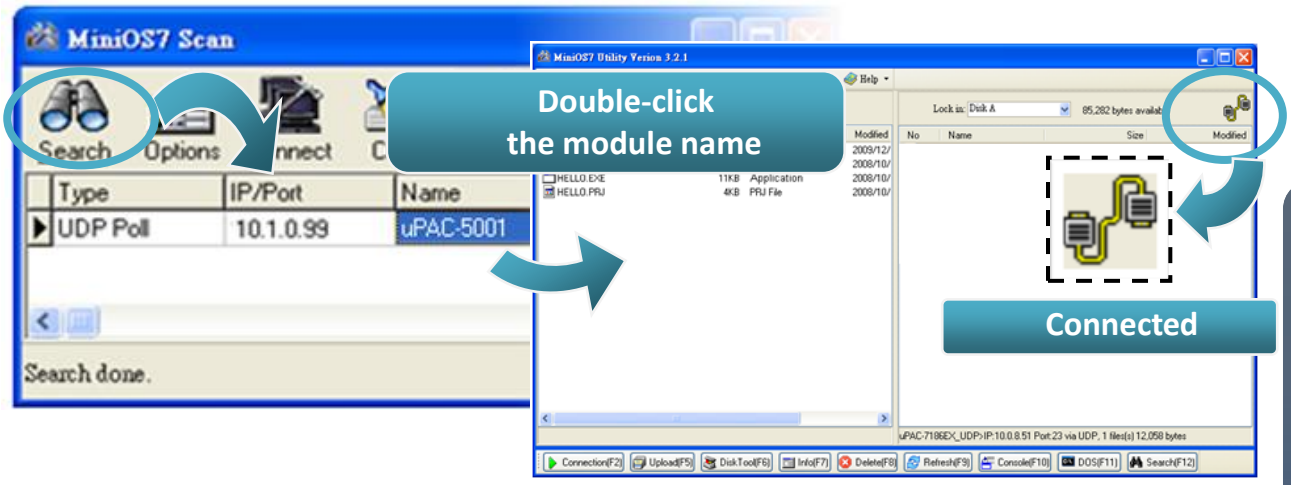
Before downloading the programs, you must first establish a connection between the Host PC and the µPAC-5001D-CAN2.

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

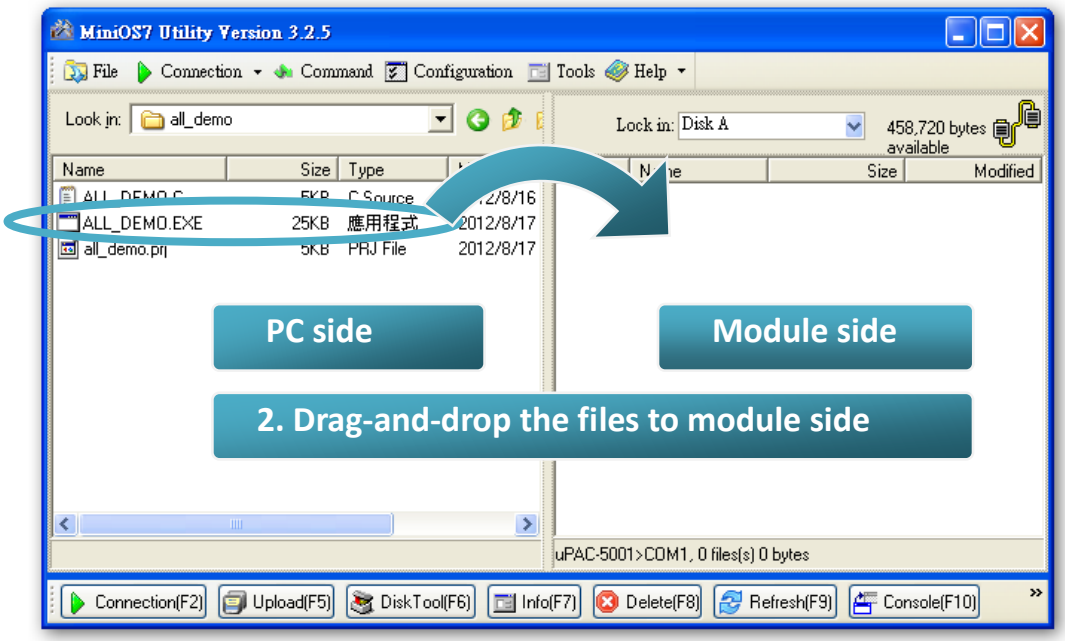
After pressing “Search” from the toolbar, the MiniOS7 scan dialog will display a list of all the MiniOS7 modules on your network. Then double-click the module name to establish a connection between PC and µPAC-5001D-CAN2.



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/

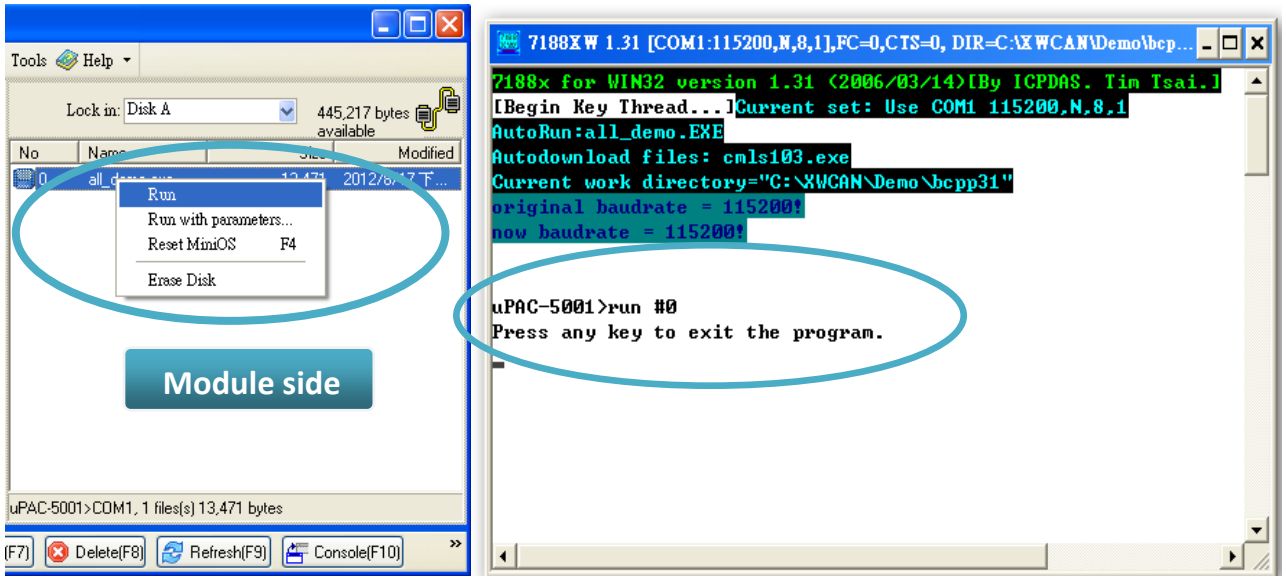


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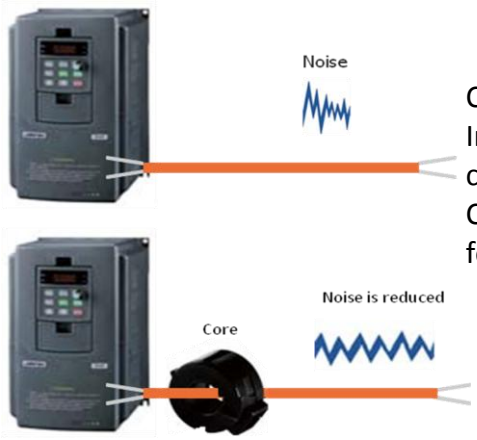
Step 3: Right-click the ROTARY.exe in the module side and select "Run" to run the firmware

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 µPAC-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.

1	2	3
		

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