



# VXC CARD QUICK START GUIDE

for **VXC-114iAU**

Language	English
Version	V1.0
Update	Jan.2010

## 1 ..... What's on your package?

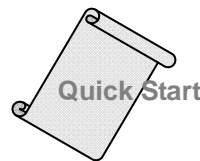
1. One VXC-114iAU series card
2. One ICP DAS software CD
3. One Quick Start Guide (this document)



VXC-114iAU



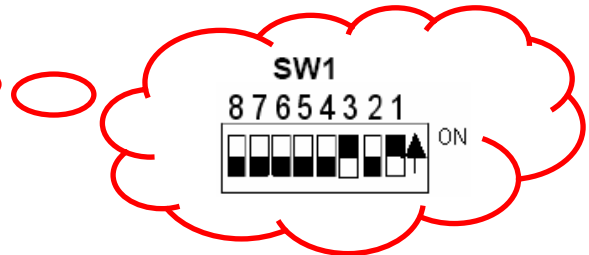
Software CD



Quick Start

## 2 ..... COM Port Mapping

Please set SW1 dip-switch (COM Selector) to 0x05 (1 and 3 “ON”, others “OFF”). The setting forces the driver to install COM ports to COM5 , COM6, COM7, COM8 ◦



## SW1 setting table

SW1 DIP Switch	8	7	6	5	4	3	2	1
Board ID= <b>0x00</b> (Default) COM = Auto-defined	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Board ID= <b>0x03</b> COM = 3/4/5/6	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
Board ID= <b>0x05</b> COM = 5/6/7/8	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
Board ID= <b>0x07</b> COM = 7/8/9/10	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
Board ID= <b>0x09</b> COM = 9/10/11/12	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
Board ID= <b>0x14</b> COM = 20/21/22/23	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
Board ID= <b>0x1E</b> COM = 30/31/32/33	OFF	OFF	OFF	ON	ON	ON	ON	OFF
Board ID= <b>0x28</b> COM = 40/41/42/43	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
Board ID= <b>0x32</b> COM = 50/51/52/53	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
Board ID= <b>0x3C</b> COM = 60/61/62/63	OFF	OFF	ON	ON	ON	ON	OFF	OFF
Board ID= <b>0x64</b> COM = 100/101/102/103	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
Board ID= <b>0x96</b> COM = 150/151/152/153	ON	OFF	OFF	ON	OFF	ON	ON	OFF
Board ID= <b>0xC8</b> COM = 200/201/202/203	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
.								
.								
.								
Board ID= <b>0xFF</b> COM = 255/256/x/x	ON	ON	ON	ON	ON	ON	ON	ON

# 3

## Installing Windows Driver

1. Launch the Windows NT/2K/XP/2003/32-bit Vista and 32-bit Windows 7 driver. The setup program is located at:
  - CD: \Napdos\multiport\windows\ VxCard2K\_Vista32\_Vxxxx (V20703 or later)
  - <http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/windows/>
2. Click the “**N**ext>” button to start the installation.
3. Click the “**N**ext>” button to install the driver into the default folder.
4. Check the “**C**reate a desktop icon” and click the “**N**ext>” button.
5. Select the “**N**o, I will restart the computer later” and click the “**F**inish” button.

For installing driver on other systems, please refer to:

- CD:\Napdos\multiport>manual\VXC\_112U\_142U\_142iU\_182iU\_114U\_144U\_144iU\_Manual.pdf
- <http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/manual/>

# 4

## Installing Your Hardware

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 VXC card into the PCI slot
5. Replace the PC cover
6. Power on the computer

After powering-on the computer, please finish the Plug & Play steps according to the prompt message. Make sure the COM installed is correct as follows:

1. Select “**S**tart→**C**ontrol Panel” and then double click the “**s**ystem” icon.
2. Click the “**H**ardware” tab and then click the “**D**evice Manager” button.
3. Check the COM ports of VXC card which list correctly or not.



# 5

## Pin Assignment and Cable Wiring

### ● DB-37 Pin Assignment

Pin Assignment	Terminal No.	Pin Assignment
N.C.	01	20 RI3
DCD3	02	21 DTR3
GND	03	22 DSR3
CTS3	04	23 RTS3
RxD3	05	24 TxD3
RI4	06	25 DCD4
DTR4	07	26 GND
DSR4	08	27 CTS4
RTS4	09	28 RxD4
TxD4	10	29 RI2
DCD2	11	30 DTR2
GND	12	31 DSR2
CTS2	13	32 RTS2
RxD2	14	33 TxD2
RI1	15	34 DCD1
DTR1	16	35 GND
DSR1	17	36 CTS1
RTS1	18	37 RxD1
TxD1	19	

RS-232 Female DB-37 Connector

### DB-9 Pin Assignment

Pin Assignment	Terminal No.	Pin Assignment
GND	05	09 RI
DTR	04	08 CTS
TxD	03	07 RTS
RxD	02	06 DSR
DCD	01	

Male DB-9 Connector

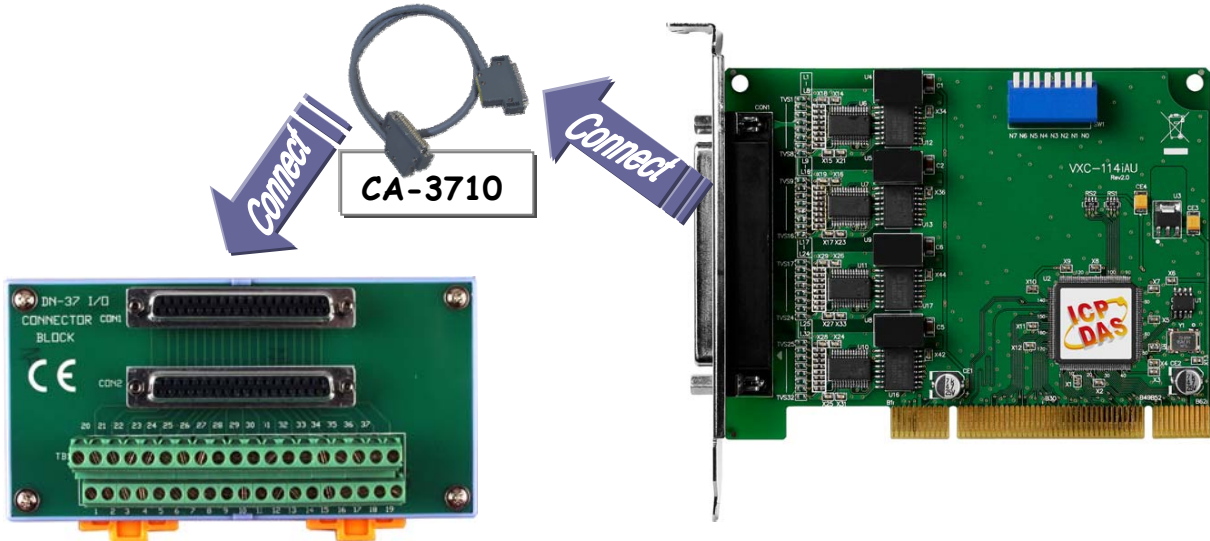
### ● RS-232 Cable Wiring

System1	Pin		Pin	System2
RxD	2	←	3	TxD
TxD	3	→	2	RxD
GND	5	↔	5	GND
DTR	4	→	6	DSR
	--		1	DCD
DCD	1	↔	--	
DSR	6	←	4	DTR
RTS	7	→	8	CTS
CTS	8	←	7	RTS
RI	9	←	9	RI

# 6

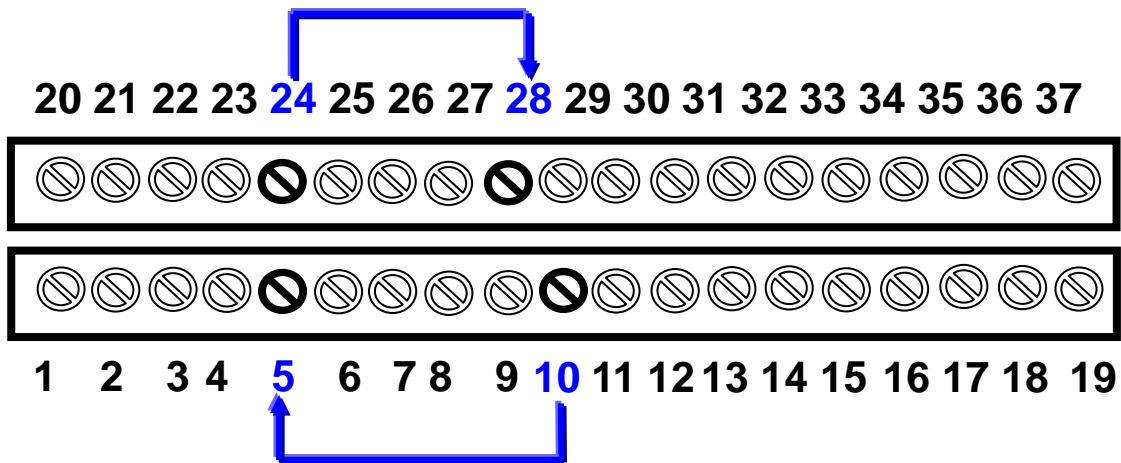
## Self Test

### 1. Connect DN-37 (optional) with VXC-114iAU



### 2. Wire Port-3 and Port-4 for test

Pin Assignment	Pin No.		Pin No.	Pin Assignment
TxD3	24	↔	28	RxD4
RxD3	05	↔	10	TxD4



### 3. Execute the Test2COM.exe program.

Get the file from:

- CD:\Napdos\multiport\utility
- <http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/utility/>

The screenshot shows the Test2COM.exe application window with several callouts and boxes:

- 1**: Points to the Test2COM.exe icon on the desktop.
- 2**: Points to the 'COM Ports' section where 'First' is COM7 and 'Second' is COM8.
- 3**: Points to the 'Data Bits' section where 5, 6, 7, and 8 are checked.
- 4**: Points to the 'Parity' section where 'None', 'Odd', and 'Even' are checked.
- 5**: Points to the 'Stop Bits' section where 1 and 2 are checked.
- 6**: Points to the 'Baud Rates' list where 9600, 19200, 38400, 57600, 115200, 230400, 460800, and 921600 are checked.
- 7**: Points to the 'Start Test' button.

Descriptive boxes include:

- 'Double-Click Test2COM.exe' (pointing to icon 1)
- 'Check Baud Rates 9600~115200' (pointing to baud rates 6)
- 'Check COM7, COM8' (pointing to COM ports 2)
- 'Check Data Bits 5/6/7/8' (pointing to data bits 3)
- 'Check Parity None/Odd/Even' (pointing to parity 4)
- 'Check Stop Bits 1/2' (pointing to stop bits 5)
- 'Click "Start Test"' (pointing to button 7)

### 4. Test Success.

The screenshot shows the Test2COM.exe application window after a test run. The 'Test Result' window displays the following text:

```
Receiving data from COM6...
Sending data to COM5...OK
Check data OK! ( 109 ms )

Purging data of COM ports!
Receiving data from COM5...
Sending data to COM6...OK
Check data OK! ( 109 ms )
===== Test OK on 115200, 8E2 =====

*****
End test at 2008/9/5 下午 03:48:42

Total Test: 105
Success Test: 105
Failed Test: 0
```

Callout **8** points to the 'Failed Test: 0' line. A box labeled 'Test Result: "Failed Test: 0"' also points to this line.

# 7

## Additional Information

- **VXC Card Product Page:**

[http://www.icpdas.com/products/Industrial/multi\\_serial/multi\\_introductions.htm](http://www.icpdas.com/products/Industrial/multi_serial/multi_introductions.htm)

- **Documentation:**

CD: \Napdos\multiport>manual\

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/manual/>

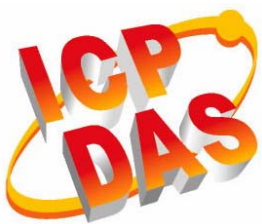
- **Software:**

CD: \Napdos\multiport\

<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/>

- **DN-37 (optional) Product Page:**

[http://www.icpdas.com/products/DAQ/screw\\_terminal/dn\\_37.htm](http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm)



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

1. The ICP DAS Web Site  
<http://www.icpdas.com/>
2. Contact Us  
[Service@icpdas.com](mailto:Service@icpdas.com)

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