

Quick Start Guide for VXC-112A/142/142i/182i Series

Written by Russell Chen

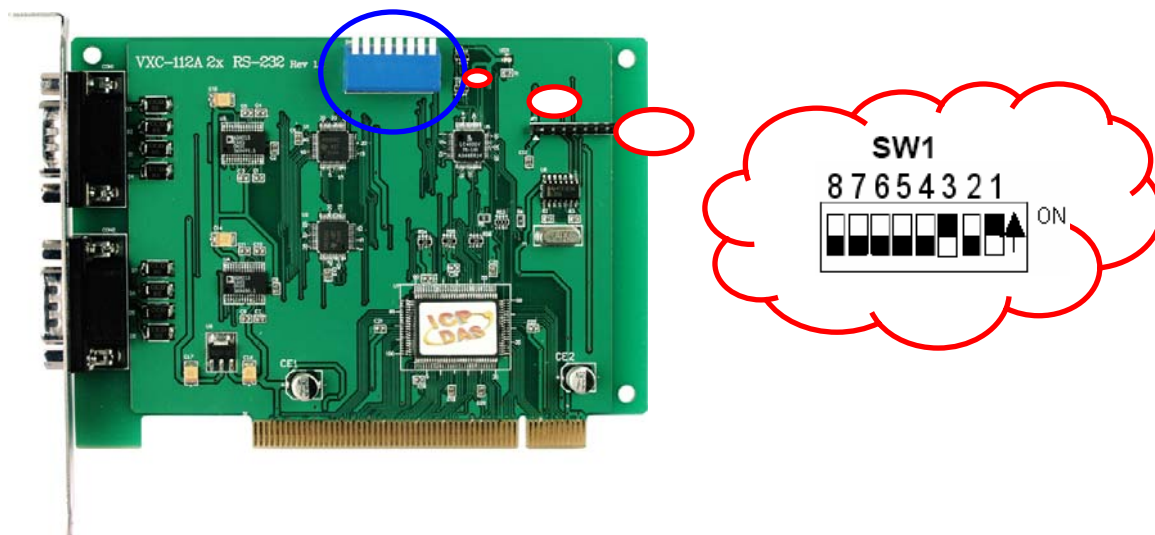
Version 1.0, Sep. 2008

1 What's on your package?

1. One VXC series card
2. One ICP DAS software CD (Ver. 4.3)
3. One Quick Start Guide (this document)

2 COM Port Mapping

Please set SW1 dip-switch (COM Selector) to 0x05 (1 and 3 “ON”, others “OFF”). The setting forces the VXC card to use COM5 and COM6.



SW1 setting table

S1 DIP Switch	8	7	6	5	4	3	2	1
Board ID=0x00 (Default) COM = Auto-defined	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Board ID=0x03 COM = 3/4	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
Board ID=0x05 COM = 5/6	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
Board ID=0x07 COM = 7/8	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
Board ID=0x09 COM = 9/10	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
Board ID=0x14 COM = 20/21	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
Board ID=0x1E COM = 30/31	OFF	OFF	OFF	ON	ON	ON	ON	OFF
Board ID=0x28 COM = 40/41	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
Board ID=0x32 COM = 50/51	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
Board ID=0x3C COM = 60/61	OFF	OFF	ON	ON	ON	ON	OFF	OFF
Board ID=0x64 COM = 100/101	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
Board ID=0x96 COM = 150/151	ON	OFF	OFF	ON	OFF	ON	ON	OFF
Board ID=0xC8 COM = 200/201	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
.								
.								
.								
Board ID=0xFF COM = 255/256	ON	ON	ON	ON	ON	ON	ON	ON

3 Installing Windows Driver

1. Launch the Windows NT/2K/XP/2003/Vista32 driver.

You can get the driver from:

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

2. Click “Next>” button to start installation.
3. Click “Next>” button to install driver into the default folder.
4. Check “Create a desktop icon” and click “Next>” button.
5. Select “No, I will restart the computer later” and click “Finish” button.

For installing driver on other systems, please refer to:

CD:\Napdos\multiport>manual\vxc_112A_142_142i_182i_Mauual.pdf

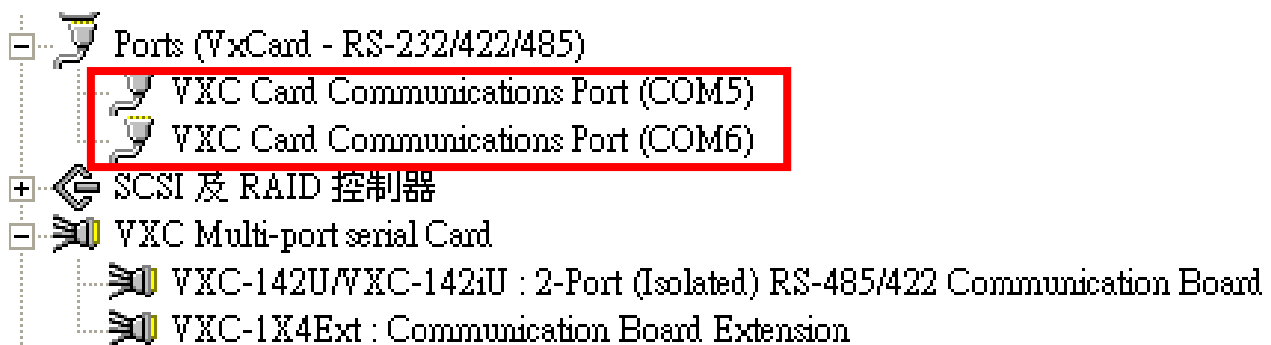
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/manual/>

4 Installing Your Hardware

1. Shut down and power off your computer
2. Remove all covers 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

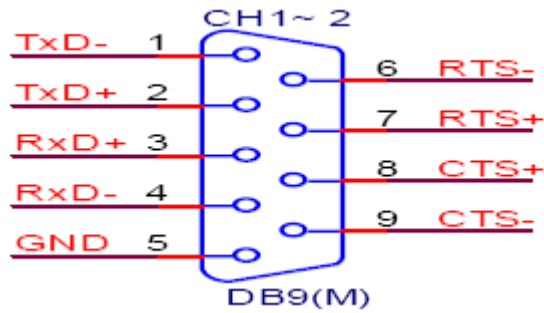
After powering-on the computer and the Plug & Play steps finished, make sure the COM installed is correct as follows:

1. Select “Start→Control Panel” and then double click the “system” icon.
2. Click the “Hardware” tab and then click the “Device Manager” button.
3. Check the COM ports of VXC card which list correctly or not.



5 Pin Assignment and Cable Wiring

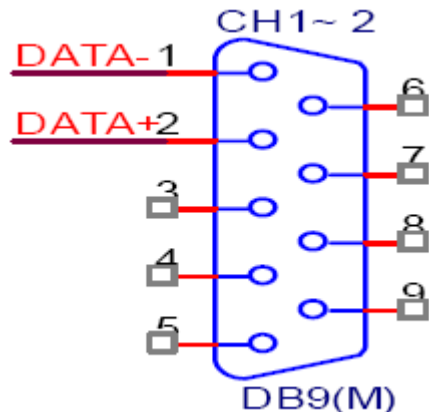
RS-422 Cable Wiring (VXC-142/142i, VXC-182i CN1)



VXC-142/142i, VXC-182i CN1 DTE (MALE DB-9)		Terminal DTE (DB-9)	
PIN	Signal	PIN	Signal
1	TxD-	4	RXX-
2	TxD+	3	RxD+
3	RxD+	2	TxD+
4	RxD-	1	TxD-
5	GND	5	GND
6	RTS-	9	CTS-
7	RTS+	8	CTS+
8	CTS+	7	RTS+
9	CTS-	6	RTS-

RS-485 Cable Wiring (VXC-142/142i, VXC-182i CN1)

VXC-142/142i, VXC-182i CN1 DTE (MALE DB-9)		Terminal DTE (DB-9)	
PIN	Signal	PIN	Signal
1	DATA-	1	DATA-
2	DATA+	2	DATA+

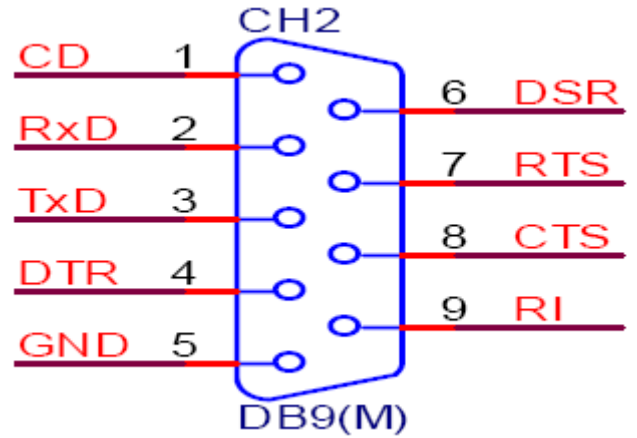


Warning: The RS-485 bus is a differential (balanced) signal, thus you cannot wire the Data+ with Data- directly for a single port loop-back test. It will not work at all!

**VXC-112A, VXC-182i CN2 (Male DB-9)
Null Modem Cable Wiring**

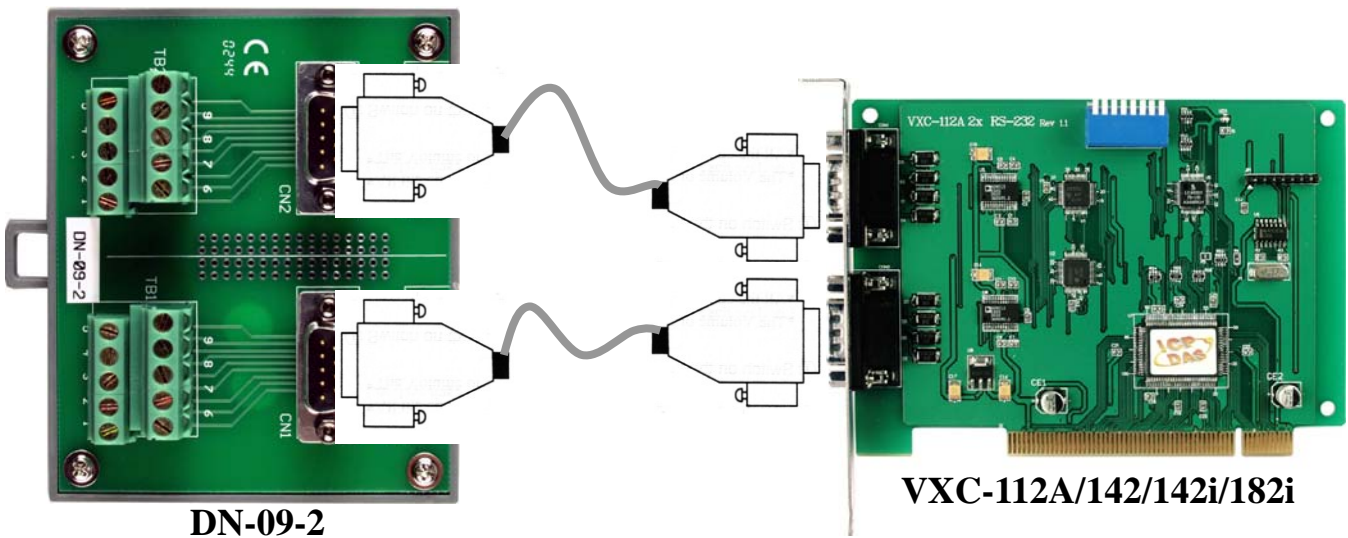
System1	Pin	→	Pin	System2
TX	3	←	2	RX
RX	2	→	3	TX
RTS	7	→	1	DCD
CTS	8		--	
RI	9	←	--	
DSR	6	←	4	DTR
DCD	1		7	RTS
	--		8	CTS
	--	→	9	RI
DTR	4		6	DSR

**RS-232 Cable Wiring
(VXC-112A, VXC-182i CN2)**



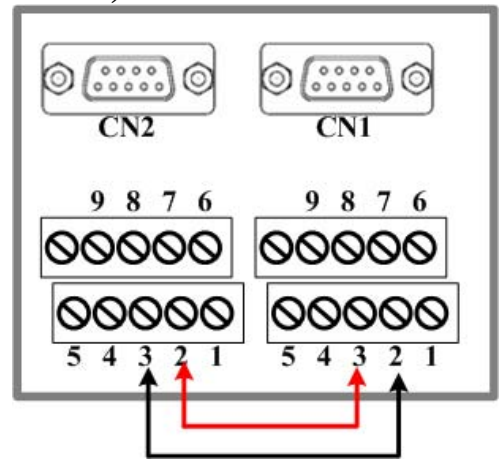
6 Self-Test

1. Connect DN-09-2 (optional) with VXC-112A/142/142i/182i



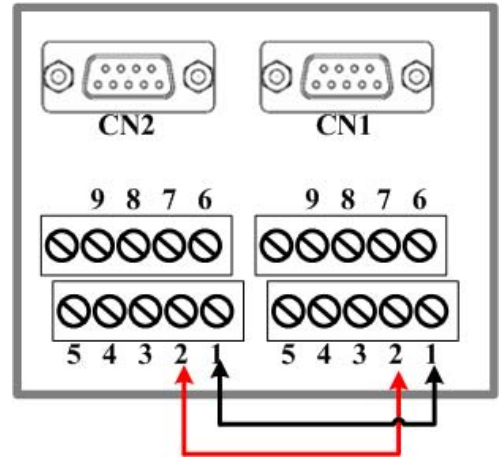
2. Wire Port-1 and Port-2 for VXC-112A (RS-232)

Pin Assignment	Pin No.		Pin No.	Pin Assignment
CN2 TxD	3		2	CN1 RxD
CN2 RxD	2		3	CN1 TxD

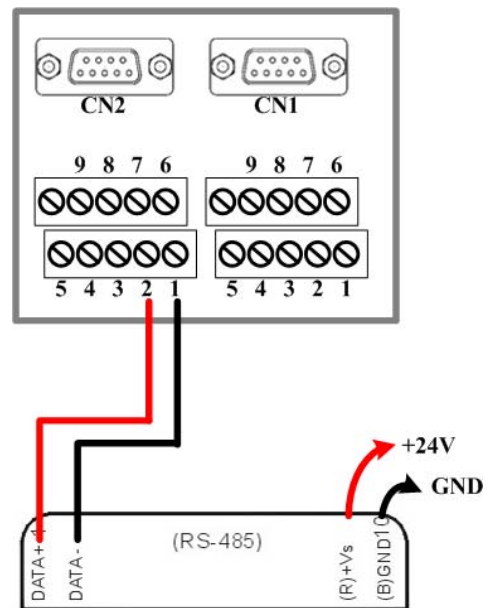
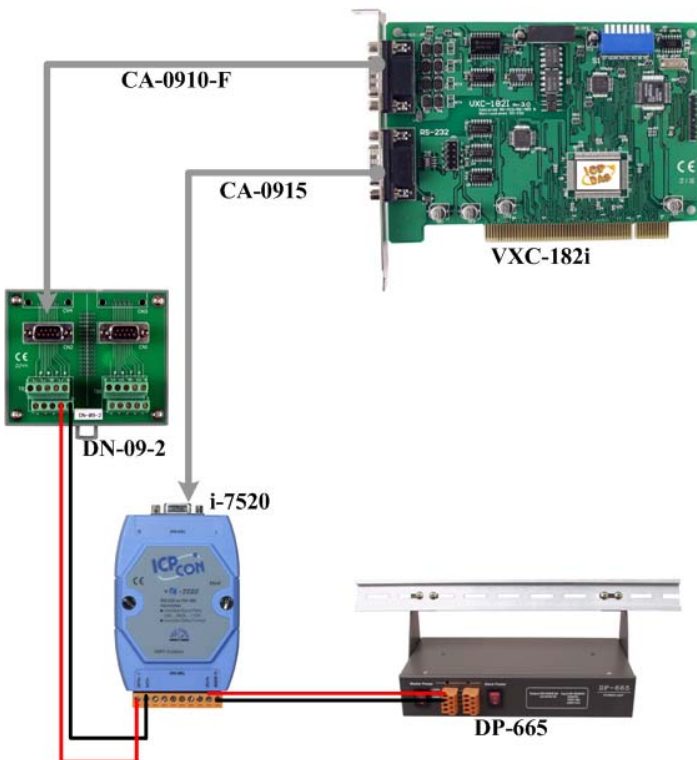


3. Wire Port-1 and Port-2 for VXC-142/142i (RS-422/485)

Pin Assignment	Pin No.		Pin No.	Pin Assignment
CN2 DATA-	1		1	CN1 DATA-
CN2 DATA+	2		2	CN1 DATA+



4. Wire Port-1 (RS-422/485) and Port-2 (RS-232) for VXC-182i



5. Execute the Test2COM.exe program.

Get the file from:

CD:\Napdos\multiport\utility

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



1. Double-Click
Test2COM.exe

2. Check
COM5,
COM6

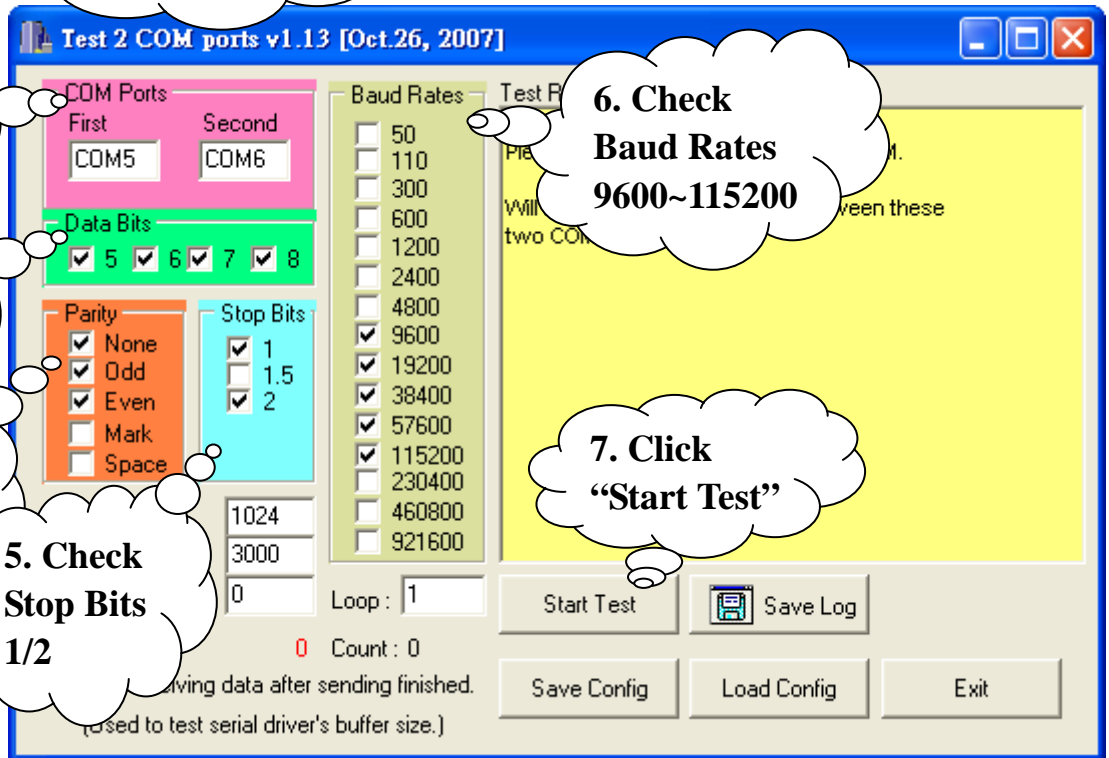
3. Check
Data Bits
5/6/7/8

4. Check
Parity None
/Odd/Even

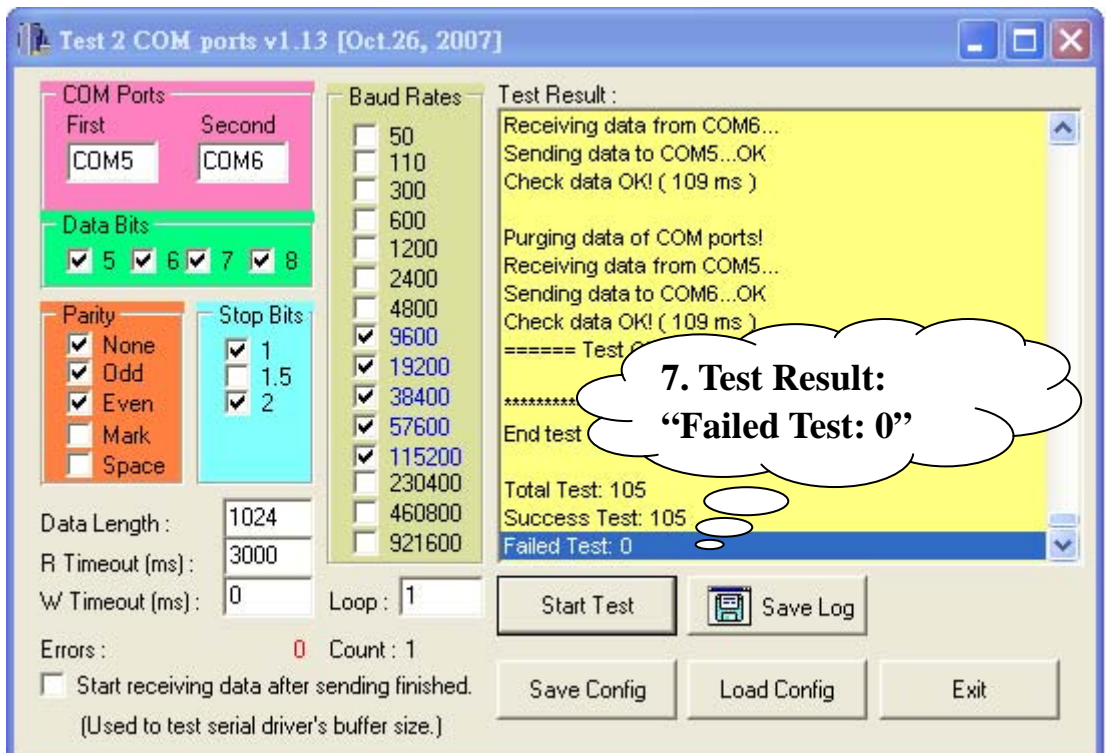
5. Check
Stop Bits
1/2

6. Check
Baud Rates
9600~115200

7. Click
"Start Test"



6. Test Success.



Additional Information

VXC Card Product Page:

http://www.icpdas.com/products/Industrial/multi_serial/multi_introductions.htm

Document:

CD: \Napdos\multiport>manual\

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

Software:

CD: \Napdos\multiport\

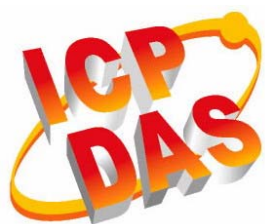
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/>

DN-09-2 (optional) Product Page:

http://www.icpdas.com/products/DAQ/screw_terminal/dn_09_2.htm

The ICP DAS Web Site

<http://www.icpdas.com/index.htm>



- ◆ Technical support
- ◆ Supplies and ordering information
- ◆ Ways to enhance your device
- ◆ FAQ
- ◆ Application story

Contact Us

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