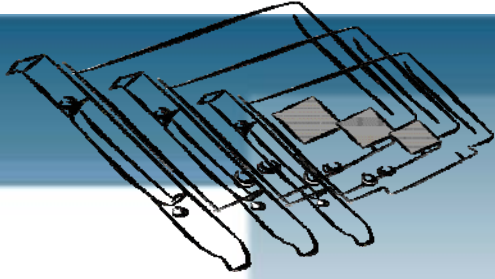


VXC CARD QUICK START GUIDE



for VXC-112(i)AU/142(i)AU/182iAU

VEX-112(i)/142(i)

English/ Mar 2011/ Version 1.2

1 What's in the shipping package?

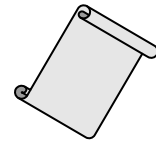
The package includes the following items:



VXC/VEX Series Card



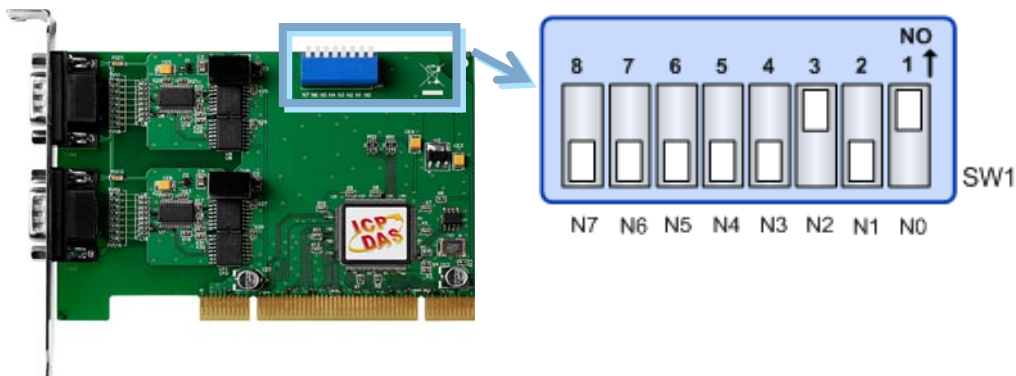
Software CD (V4.8 or later)



Quick Start Guide (This Document)

2 COM Port Mapping

Setting SW1 dip-switch (COM Selector) to 0x05 (1 and 3 "NO", others "OFF"). The setting forces the VXC/VEX card to use COM5 and COM6.



■ SW1 Setting Table:

SW1 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 2000/XP/2003/2008/Vista/7 (32/64 bit) driver setup program. It is located at :
CD: \Napdos\multiport\windows\VxCard_W7_Vx.xx.xx.exe
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/windows/>
2. Click the “Next>” button to start the installation.
3. Click the “Next>” button to install the driver into the default folder.
4. Check the “Create a desktop icon” and click the “Next>” button.
5. Select the “NO, I will restart the computer later” and click the “Finish” button.



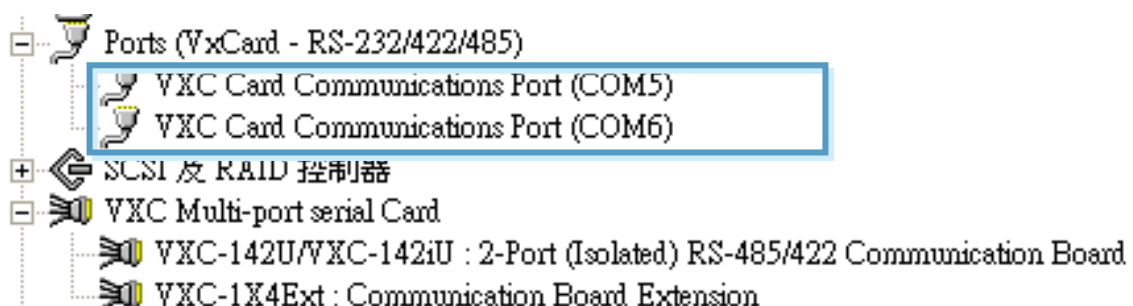
For installing driver on other systems, please refer to:
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/manual/>

4 Installing the Hardware

Follow these steps:

1. Shut down and power off your computer.
2. Remove the cover from the computer.
3. Select an unused PCI/PCI Express slot.
4. Carefully insert your VXC/VEX card into the PCI/PCI Express slot.
5. Replace the PC cover.
6. Power on the computer.
7. Follow the prompt message to finish the Plug&Play steps.
8. Make sure the com ports installed are correct as follows:

- i. Select “Start → Control Panel” and then double click the “system” icon.
- ii. Click the “Hardware” tab and then click the “Device Manager” button.
- iii. Check the COM ports of VXC/VEX card which listed correctly or not.




5

Pin Assignments and Cable Wiring

■ RS-422 Cable Wiring (VXC-142(i)AU, VXC-182iAU and VEX-142(i) CN1)

Pin Assignment	Terminal	No.	Pin Assignment
GND/VEE	05	09	CTS-(A)
RxD-(A)	04	08	CTS+(B)
RxD+(B)	03	07	RTS+(B)
TxD+(B)/Data+(B)	02	06	RTS-(A)
TxD-(A)/Data-(A)	01		




RS-422/485 Male DB-9 Connector

VXC Card CN1			Device	
PIN	Signal		PIN	Signal
1	TxD-	→	4	RXD-
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(i)AU, VXC-182iAU and VEX-142(i) CN1)

Pin Assignment	Terminal	No.	Pin Assignment
GND/VEE	05	09	CTS-(A)
RxD-(A)	04	08	CTS+(B)
RxD+(B)	03	07	RTS+(B)
TxD+(B)/Data+(B)	02	06	RTS-(A)
TxD-(A)/Data-(A)	01		



RS-422/485 Male DB-9 Connector


VXC Card CN1			Device	
PIN	Signal		PIN	Signal
1	DATA-	↔	1	DATA-
2	DATA+	↔	2	DATA+



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!

■ RS-232 Cable Wiring (VXC-112(i)AU, VXC-182iAU and VEX-112(i) CN2)

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

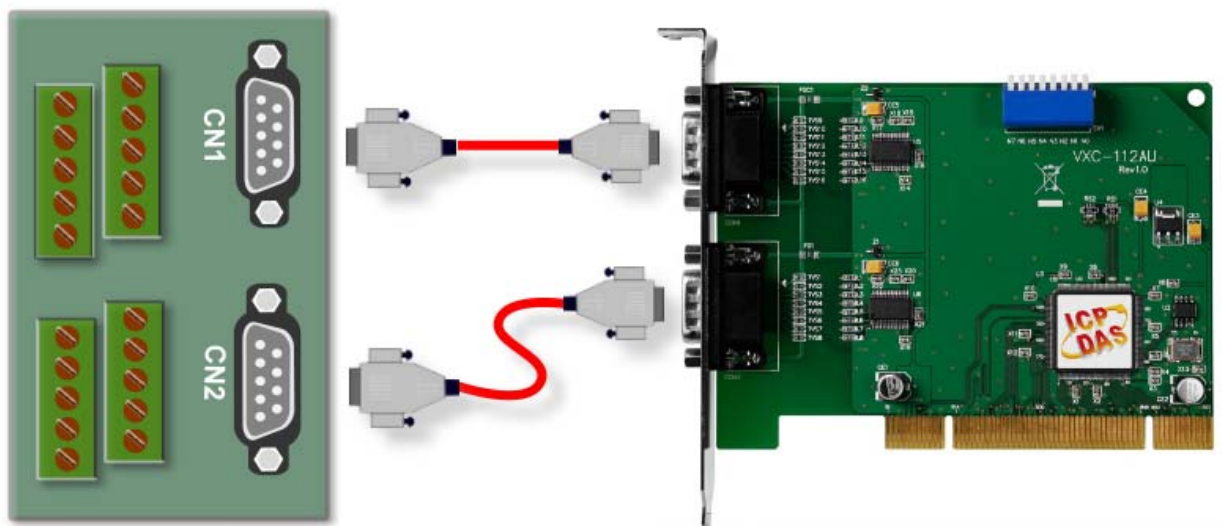


Male DB-9 Connector

System 1	PIN		PIN	System 2
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. Use the DN-09-2(optional) to connect the VXC-112(i)AU/142(i)AU/182iAU or VEX-112(i)/142(i).

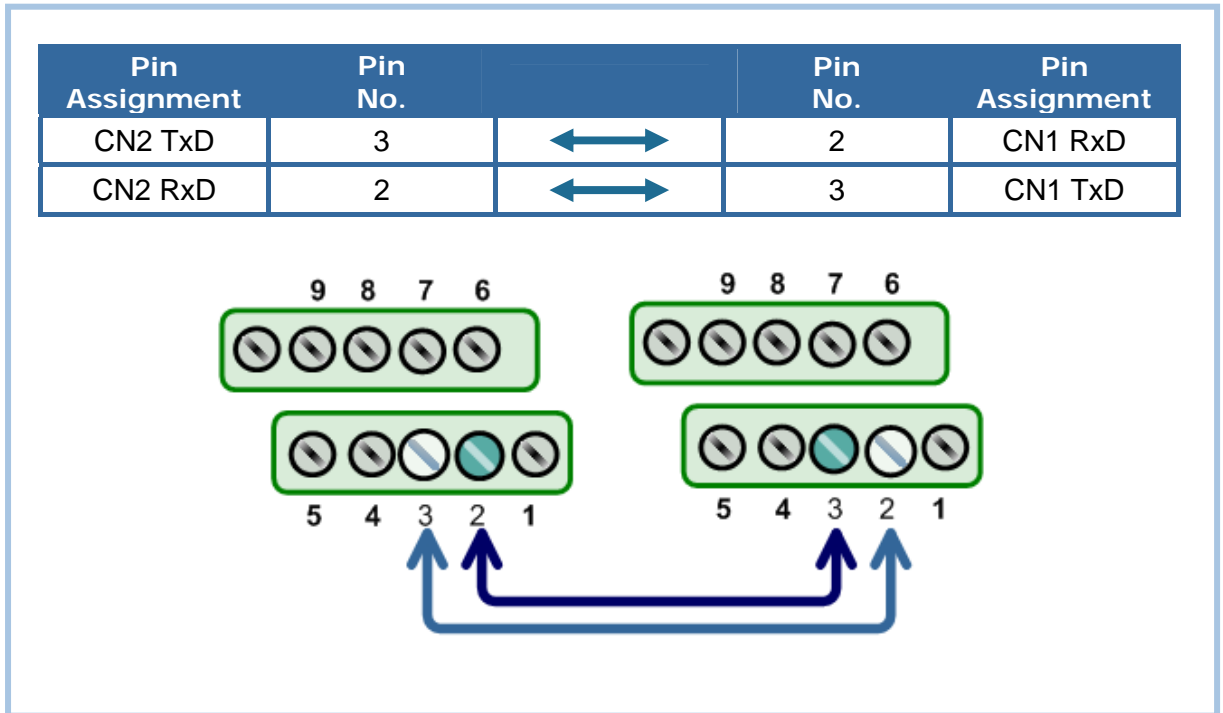


DN-09-2

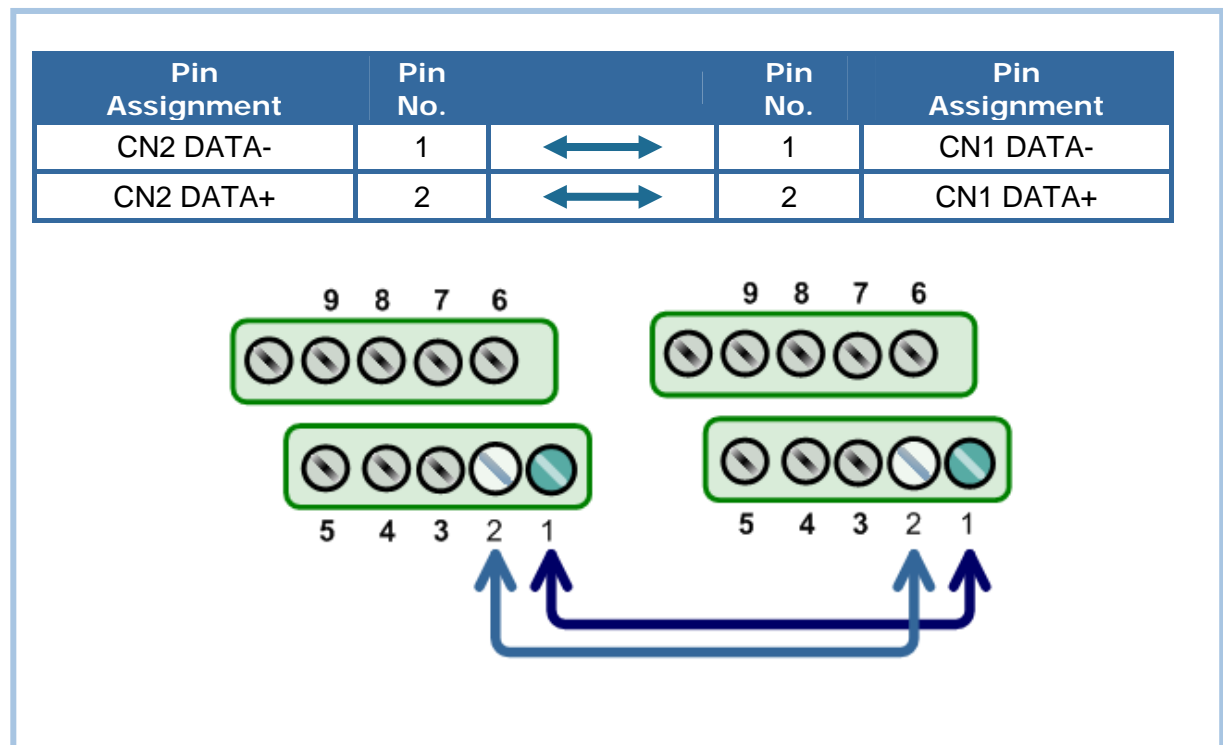
VXC-112(i)AU/142(i)AU/182iAU
VEX-112(i)/142(i)

2. Wire Port-1 and Port-2 :

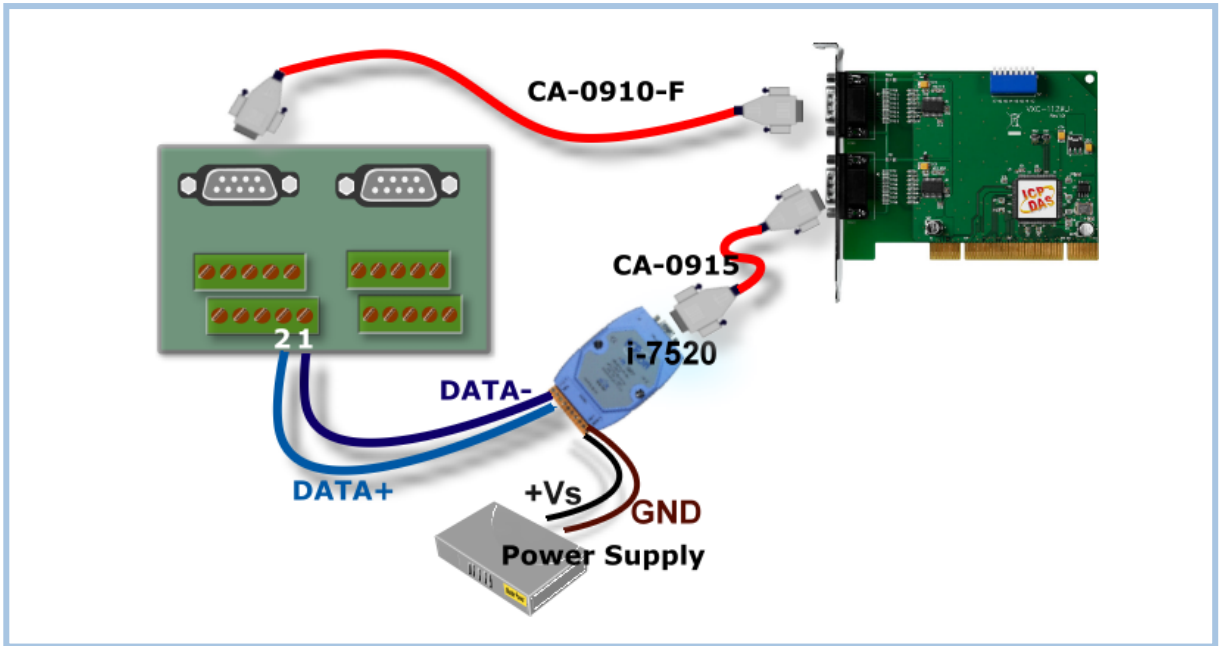
■ VXC-112(i)AU/VEX-112(i) (RS-232)



■ VXC-142(i)AU/VEX-142(i) (RS-422/485)



■ VXC-182iAU(RS-232 and RS-422/485)



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/>

1. Double-Click Test2COM.exe

2. Check COM5, COM6

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

4. Check Parity None/Odd/Even

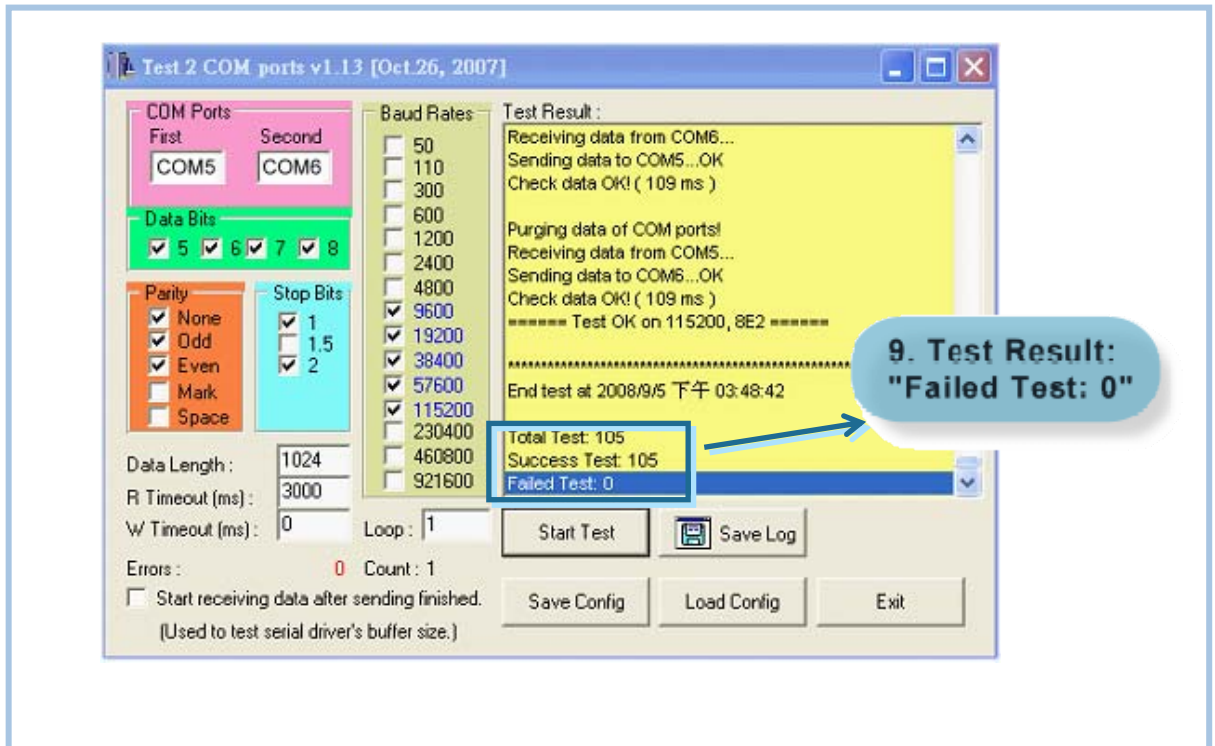
5. Check Stop Bits 1/2

6. Check Baud Rates 9600~115200

7. Loop:1

8. Click "Start Test"

4. Test Success.



Related Information

- **VXC Card Product page:**
http://www.icpdas.com/products/Industrial/multi_serial/multi_introductions.htm
- **DN-09-2,CA-0915 and CA-0910-F product page (optional):**
http://www.icpdas.com/products/DAQ/screw_terminal/dn_09_2.htm
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm
- **i-7520 product page (optional):**
http://www.icpdas.com/products/Remote_IO/i-7000/i-7520.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/>

