

Quick Start Guide for

VXC-114U/144U/144iU Series

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What's on your package?

- 1. One VXC series card
- 2. One ICP DAS software CD
- 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").

This forces the VXC card to use COM5, COM6, COM7 and COM8.



SW1 setting table

SW1 DIP Switch	8	7	6	5	4	3	2	1
Board ID= 0x00 (Default) COM = Auto-defined	OFF							
Board ID= 0x03 COM = 3/4/5/6	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
Board ID= 0x05 COM = 5/6/7/8	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON
Board ID= 0x07 COM = 7/8/9/10	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
Board ID= 0x09 COM = 9/10/11/12	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
Board ID= 0x14 COM = 20/21/22/23	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
Board ID= 0x1E COM = 30/31/32/33	OFF	OFF	OFF	ON	ON	ON	ON	OFF
Board ID= 0x28 COM = 40/41/42/43	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
Board ID= 0x32 COM = 50/51/52/53	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
Board ID= 0x3C COM = 60/61/62/63	OFF	OFF	ON	ON	ON	ON	OFF	OFF
Board ID= 0x64 COM = 100/101/102/103	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
Board ID= 0x96 COM = 150/151/152/153	ON	OFF	OFF	ON	OFF	ON	ON	OFF
Board ID= 0xC8 COM = 200/201/202/203	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
Board ID= 0xFF COM = 255/256/x/x	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 "<u>Next></u>" button to start installation.
- 3. Click "<u>Next></u>" button to install driver into the default folder.
- 4. Check "Create a <u>desktop icon</u>" and click "<u>N</u>ext>" button.
- 5. Select "<u>N</u>o, I will restart the computer later" and click "Finish" button.

For installing driver on other systems, please refer to:

CD:\Napdos/multiport/manual/vxc_114u_144u_144iu_manual.pdf http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/manual/vxc_11 4u_144u_144iu_manual.pdf

4 Installing Your Hardware

- 1. Shut down 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/Settings/Control Panel " and double click the "system" icon.
- 2. Click the "Hardware" tab and then click the "Device Manager" button.
- 3. Check if the COM ports of VXC card are listed correctly.

🚊 💭 Ports (VxCard - RS-232/422/485)

- VXC Card Communications Port (COM5)
 VXC Card Communications Port (COM6)
 VXC Card Communications Port (COM7)
 VXC Card Communications Port (COM8)
 VXC Multi-port serial Card
 VXC-114U : 4-Port Isolated RS-232 Communication Board
 - 🔊 VXC-1X4Ext : Communication Board Extension

5 Pin Assignment

VXC-114U Pin Assignment and Wiring

Pin Assignment Name	Terminal No.		Pin Assignment Name	RS-232
N.C.	01	20	RI3	Syste
DCD3	02	21	DTR3	T>
GND	03	22	DSR3	R۷
CTS3	04	23	RTS3	RT
RxD3	05	24	TxD3	СТ
RI4	06	25	DCD4	GN
DTR4	07	26	GND	DS
DSR4	08	27	CTS4	DC
RTS4	09	28	RxD4	
TxD4	10	29	RI2	DT
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 Null Modem Cable Wiring

-		_
System 1		System 2
ΤX		RX
RX		ΤX
RTS		DCD
CTS		
GND	${\longleftarrow}$	GND
DSR		DTR
DCD		RTS
	L	CTS
DTR		DSR

VXC-144U/144iU Pin Assignment and V	Wiring
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Pin Assignment	Terminal No.		Pin Assignment	RS-485 C	able Wiri	ng
\N.C.	01	20	CTS3-(A)			-
TxD3-(A)/Data3-(A)	02	21	RxD3-(A)	System		System
GND/VEE3	03	22	RTS3-(A)	1		2
CTS3+(B)	04	23	RTS3+(B)	DATA –	\longleftrightarrow	DATA –
TxD3+(B)/Data3+(B)	05	24	RxD3+(B)	(A)		(A)
CTS4-(A)	06	25	TxD4-(A)/Data4-(A)	DATA +	\longleftrightarrow	DATA +
RxD4-(A)	07	26	GND/VEE4	(D)		(D)
RTS4-(A)	08	27	CTS4+(B)	RS-422 (Cable Wiri	ina
RTS+4(B)	09	28	TxD4+(B)/Data4+(B)			
RxD4+(B)	10	29	CTS2-(A)	System		System
TxD2-(A)/Data2-(A)	11	30	RxD2-(A)			
GND/VEE2	12	31	RTS2-(A)	TXD-		
CTS2+(B)	13	32	RTS2+(B)	TXD+		RXD+
TxD2+(B)/Data2-(B)	14	33	RxD2+(B)	RxD+		TxD+
CTS1-(A)	15	34	TxD1-(A)/Data1-(A)	RxD-		TxD-
RxD1-(A)	16	35	GND/VEE1	GND	${\longleftarrow}$	GND
RTS1-(A)	17	36	CTS1+(B)	RTS-		CTS-
RTS1+(B)	18	37	TxD1+(B)/Data1+(B)	RTS+		CTS+
RxD1+(B)	19			CTS+		RTS+
				CTS-		RTS-

6 Self-Test

1 : Connect DN-37 with VXC-114U/144U/144iU.





Wire Port3 and Port4 for VXC-144U/144iU (RS-485).

Pin Assignment Name	Pin NO.		Pin NO.	Pin Assignment Name
TxD3-(A)/Data3-(A)	02	\longleftrightarrow	25	TxD4-(A)/Data4-(A)
TxD3+(B)/Data3+(B)	05	\longleftrightarrow	28	TxD4+(B)/Data4+(B)

DN-37 wiring for self-test

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



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/



IL lest 2 CO.	
COM Ports P First Second 00 COM7 COM8 110 Data Bits 1200 2400 Stop Bits ✓ ✓ 9600 Parity Stop Bits ✓ 9600 ✓ 9600 ✓ Odd ✓ 1.5 ✓ 2 9600 ✓ 9600 ✓ 9600 ✓ 9600 ✓ 9600 ✓ 9600 ✓ 9200 ✓ 38400 ✓ 57600 ✓ 115200 ✓ 38400 ✓ 57600 ✓ 115200 ✓ 30400 ✓ 9216000 ✓ 460800 ✓ 921600	Please connect the 1st COM to 2nd COM. Will test the sending/receiving between these two COM ports. 3. Click "Start Test"
W Timeout (ms): 0 Loop : 1	Start Test 🔄 Save Log
Errors : 0 Count : 0 Start receiving data after sending finished. (Used to test serial driver's buffer size.)	Save Config Load Config Exit

4 : Test success.



Additional Information

VXC Card Product Page:

http://www.icpdas.com/products/Industrial/multi_serial/vxc-144.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-37 Product Page:

http://www.icpdas.com/products/DAQ/screw_terminal/dn_37.htm

The ICP DAS Web Site

http://www.icpdas.com

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



Application story

Contact Us

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