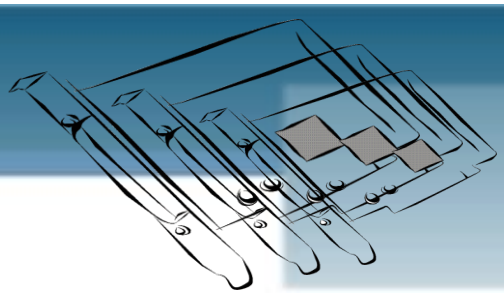
VXC CARD QUICK START GUIDE



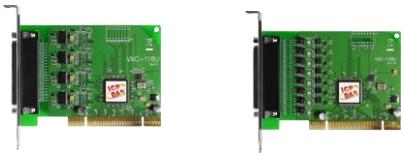
for VXC-118U/VXC-148U

English/Jan. 2014/Version 1.0

VXC Series Multi-port Cards

1 What's in the shipping package?

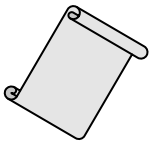
The package includes the following items:



VXC-118U or VXC-148U



Software CD
(V5.8 or later)



Quick Start Guide
(This Document)



CA-PC62M

2 Installing Windows Driver

Follow these steps:

1. Launch the **Windows 2000/XP/2003/Vista/7/8 (32-/64-bit) driver setup program**, which can be downloaded from:
   CD: \Napdos\multiport\windows\VXC_1x8_Win_Setup_xxxx.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. Click "**Continue Anyway**" button on "Hardware Installation" dialog box.

   Note: 1. In the Windows 2000/XP/2003, the **"Hardware Installation"** warning prompt will be serveral times. Click the "**Continue Anyway**" button each case.

   2. In the Windows Vista/7/8, the **"Windows Security"** warning prompt will be serveral times. Click the "**Install**" button each case.

5. Select the **"NO, I will restart the computer later"** and click the **"Finish"** button.

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3 Installing the Hardware

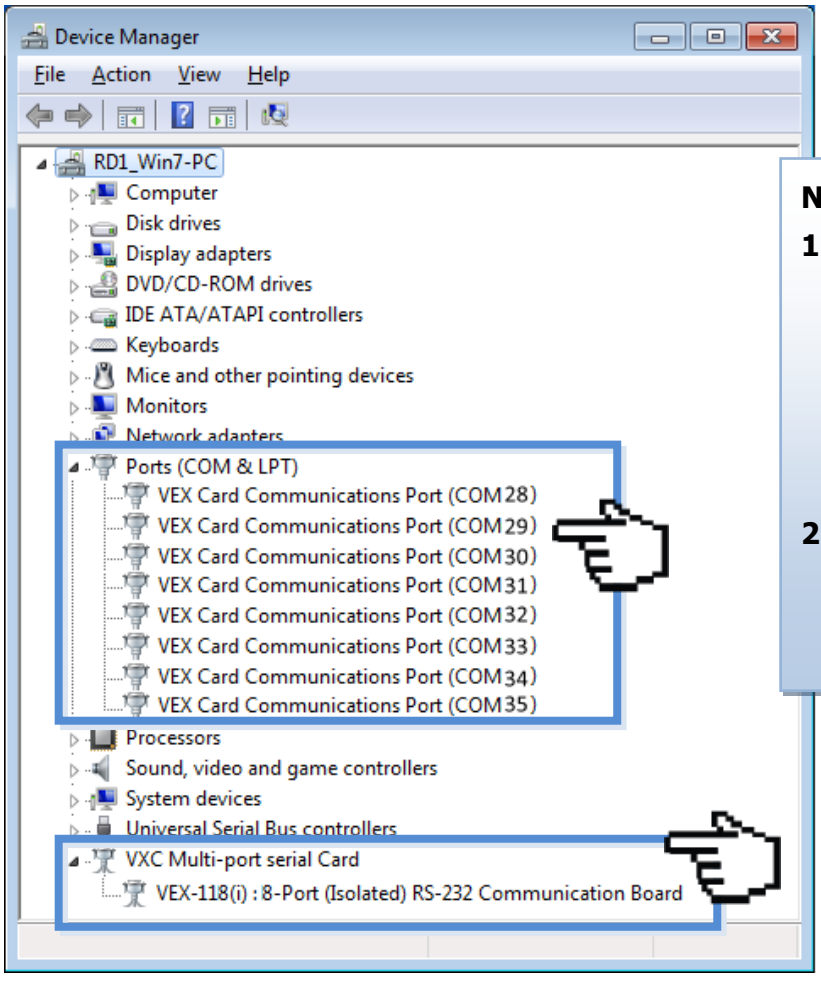
Follow these steps:

1. Shut down and power off your computer.
2. Remove the cover from the computer.
3. Select an unused PCI slot.
4. Carefully insert your VXC card into the PCI slot.
5. Replace the PC cover.
6. Power on the computer.
7. Follow the prompt message to finish the Plug&Play steps.
8. Please open the "Device Manager" to verify the COM port installation, as follows steps:

   8-1: In Windows XP, Click on **"Start→ Settings→ Control Panel"** and double-click the **"System"** icon.

   8-2: Click the **"Hardware"** tab and then click the **"Device Manager"** button.

   8-3: Verify that the COM ports of VXC-118U/148U card are listed correctly.



Note:

1. **For Device Manager on other systems, please refer to "Sec. 4-4 Verifying the Installation" of the VXC-1x8U user manual.**

2. **COM port mapping is automatically applied depending on the PC.**

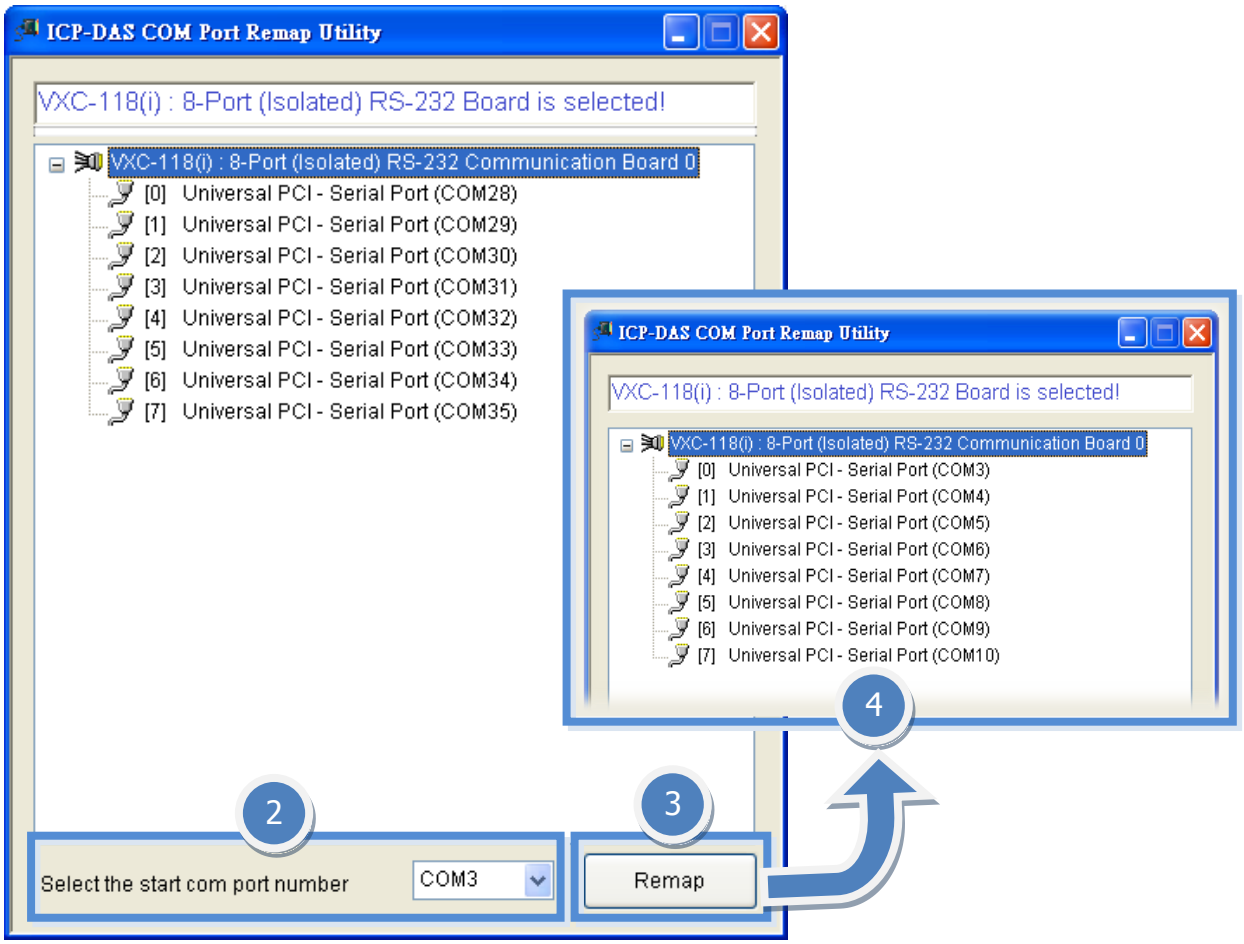
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4 Manual COM Port Configuration

If the auto-configuration for COM Port is messy or that is not you need, you can change the COM port mappings by settings the **"Select the start com port number"** drop down options on the **"ComPortRemap.exe"** program. For detailed configuration steps, please refer to the following:

1. Execute the **"ComPortRemap.exe"** program. The **"ComPortRemap.exe"** program which can be found on the installed path, like **C:\ICPDAS\VXC-1x8\Driver**.
2. Assign a start COM Port number (e.g. COM3).
3. Click the **"Remap"** button.
4. The COM port modification is completed.

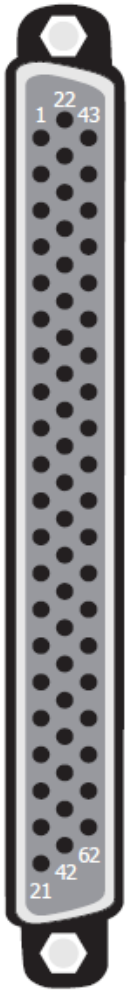




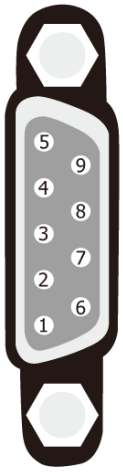
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5 Pin Assignments and Cable Wiring

VXC-118U card (RS-232 Cable Wiring):



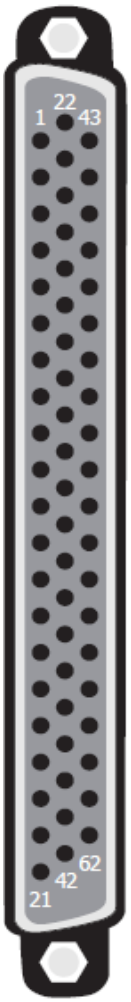
Terminal No.	Pin Assignment	Terminal No.	Pin Assignment	Terminal No.	Pin Assignment
01	TxD_0	22	RxD_0	43	CTS_0
02	DTR_0	23	DSR_0	44	RTS_0
03	RxD_1	24	DCD_0	45	GND
04	DSR_1	25	TxD_1	46	CTS_1
05	DCD_1	26	DTR_1	47	RTS_1
06	TxD_2	27	RxD_2	48	CTS_2
07	DTR_2	28	DSR_2	49	RTS_2
08	RxD_3	29	DCD_2	50	GND
09	DSR_3	30	TxD_3	51	CTS_3
10	DCD_3	31	DTR_3	52	RTS_3
11	RxD_4	32	GND	53	CTS_4
12	DSR_4	33	TxD_4	54	RTS_4
13	DCD_4	34	DTR_4	55	GND
14	TxD_5	35	RxD_5	56	CTS_5
15	DTR_5	36	DSR_5	57	RTS_5
16	RxD_6	37	DCD_5	58	GND
17	DSR_6	38	TxD_6	59	CTS_6
18	DCD_6	39	DTR_6	60	RTS_6
19	RxD_7	40	GND	61	CTS_7
20	DSR_7	41	TxD_7	62	RTS_7
21	DCD_7	42	DTR_7		
CON1					



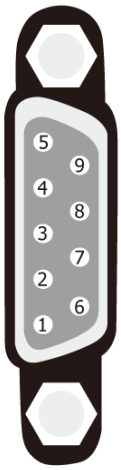
Terminal No.	Pin Assignment
01	DCD
02	RxD
03	TxD
04	DTR
05	GND
06	DSR
07	RTS
08	CTS
09	-
Female DB-62 to Male DB-9 Connector	

VXC/VEX Card		RS-232 Wiring	Device	
Signal	**PIN**		**PIN**	**Signal**
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

VXC-148U card (RS-422/485 Cable Wiring):



Terminal No.	Pin Assignment	Terminal No.	Pin Assignment	Terminal No.	Pin Assignment
01	RxD0+	22	TxD0+/Data0+	43	-
02	RxD0-	23	-	44	-
03	TxD1+/Data1+	24	TxD0-/Data0-	45	GND
04	-	25	RxD1+	46	-
05	TxD1-/Data1-	26	RxD1-	47	-
06	RxD2+	27	TxD2+/Data2+	48	-
07	RxD2-	28	-	49	-
08	TxD3+/Data3+	29	TxD2-/Data2-	50	GND
09	-	30	RxD3+	51	-
10	TxD3-/Data3-	31	RxD3-	52	-
11	TxD4+/Data4+	32	GND	53	-
12	-	33	RxD4+	54	-
13	TxD4-/Data4-	34	RxD4-	55	GND
14	RxD5+	35	TxD5+/Data5+	56	-
15	RxD5-	36	-	57	-
16	TxD6+/Data6+	37	TxD5-/Data5-	58	GND
17	-	38	RxD6+	59	-
18	TxD6-/Data6-	39	RxD6-	60	-
19	TxD7+/Data7+	40	GND	61	-
20	-	41	RxD7+	62	-
21	TxD7-/Data7-	42	RxD7-		
CON1					



Terminal No.	Pin Assignment
01	TxD-/Data-
02	TxD+/Data+
03	RxD+
04	RxD-
05	GND
06	-
07	-
08	-
09	-
Female DB-62 to Male DB-9 Connector	

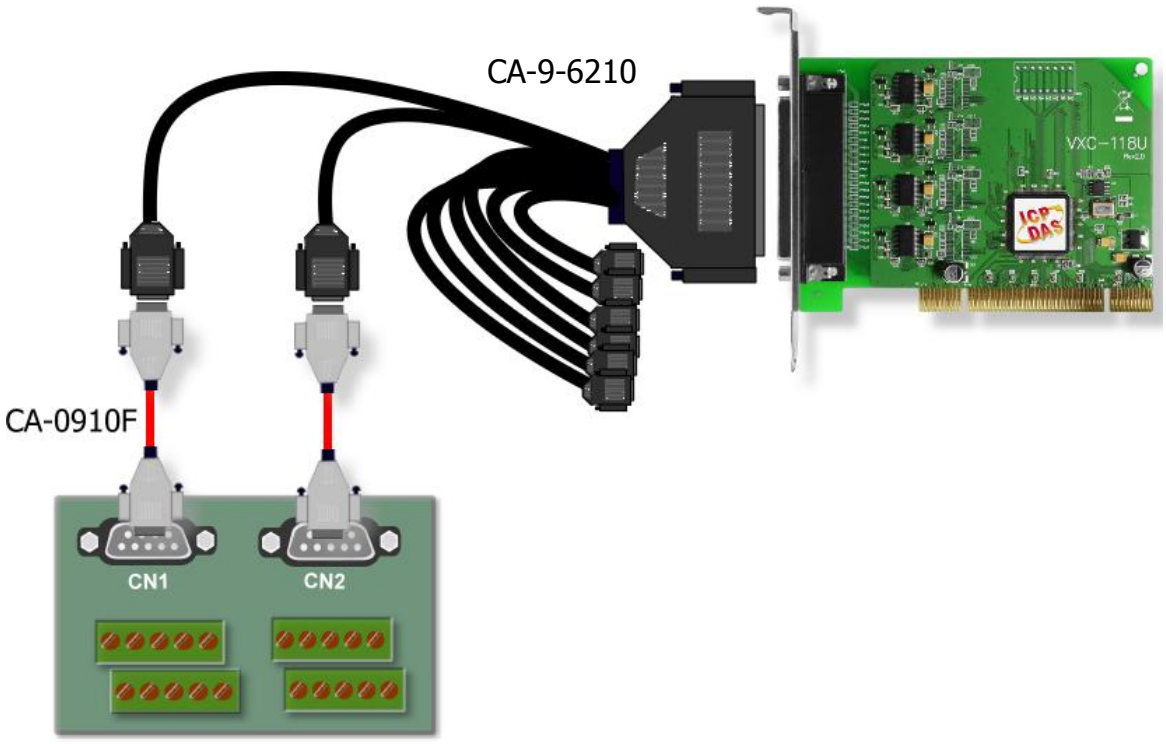
VXC/VEX Card		RS-485 Wiring	Device	
Signal	**PIN**		**PIN**	**Signal**
DATA-	1	↔	1	DATA-
DATA+	2	↔	2	DATA+

Note: 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/VEX Card		RS-422 Wiring	Device	
Signal	**PIN**		**PIN**	**Signal**
TxD-	1	→	4	RXD-
TxD+	2	→	3	RxD+
RxD+	3	←	2	TxD+
RxD-	4	←	1	TxD-
GND	5	↔	5	GND

6 Self-Test

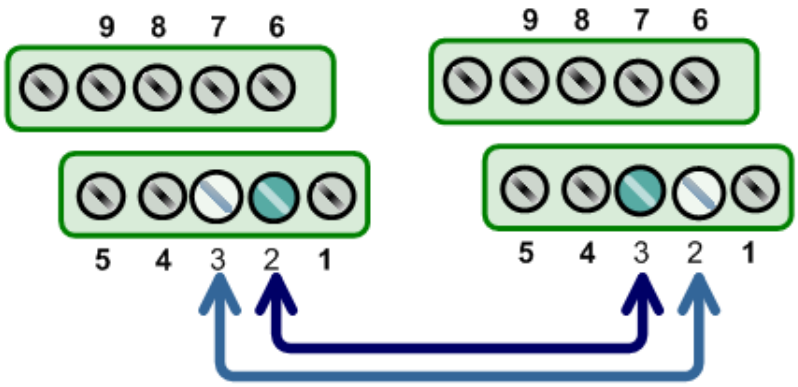
1. Use the DN-09-2 (optional) to connect the VXC-118U or VXC-148U card.



2. Wire the Port0 and Port1.

■ VXC-118U card (RS-232):

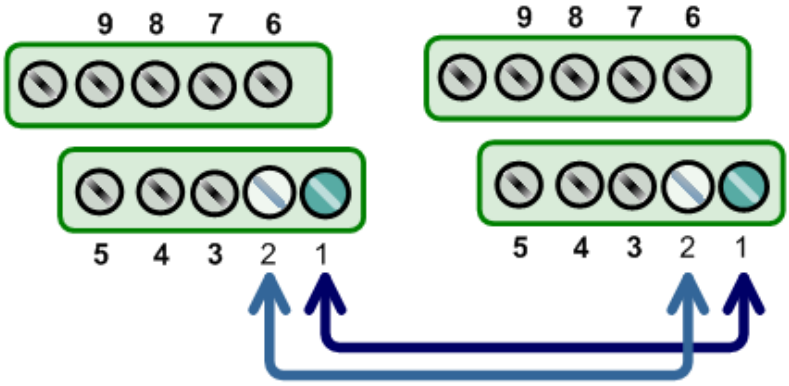
Port0 Signal	PIN		PIN	Port1 Signal
TxD0	3	⟷	2	RxD1
RxD0	2	⟷	3	TxD1



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■ VXC-148U card (RS-485):

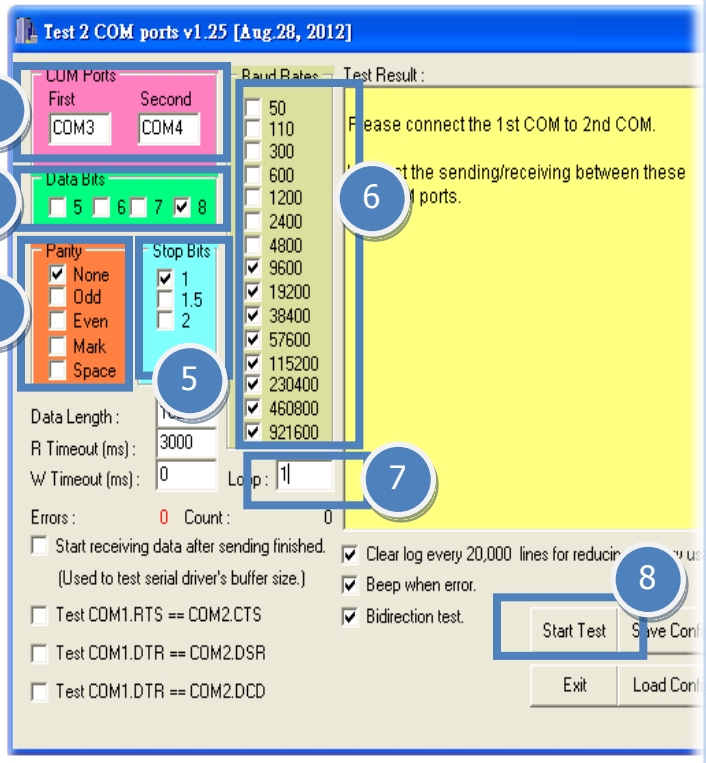
Port0 Signal	PIN		PIN	Port1 Signal
Data0-	1	⟷	1	Data1-
Data0+	2	⟷	2	Data1+



3. Execute the Test2COM.exe program, which can be downloaded from:
CD:\Napdos\multiport\utility
http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/multiport/utility/

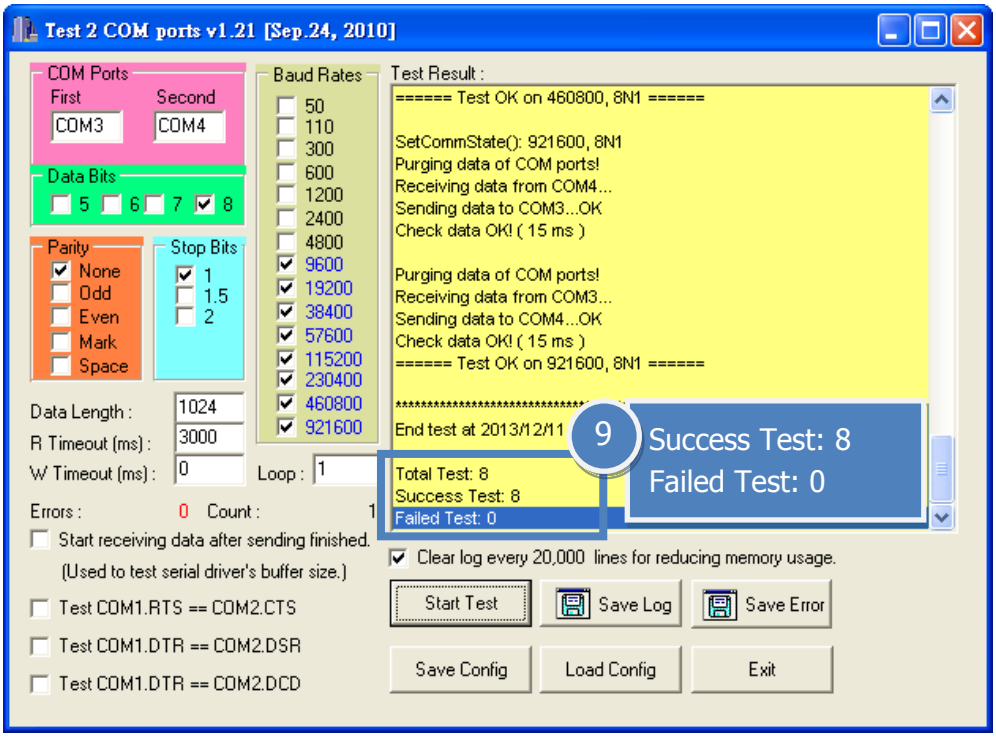


1. Double-Click the Test2COM.exe
2. COM Ports: Enter COM3 and COM4 in both fields.
3. Data Bits: 8
4. Parity: None
5. Stop Bits: 1
6. Baud Rates: check 9600 to 921600
7. Loop: 1
8. Click the "Stat Test" button to begin the test.



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4. Once the test is complete, verify the test results.
If the result indicates that the test was successful, the expanded COM Port is ready-to-use.





Related Information

- VXC-118U/148U Card Product page:
  http://www.icpdas.com/products/Industrial/multi_serial/multi_introductions.htm
- DN-09-2, CA-0910F and CA-9-6210 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
- 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/

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