Use Test Terminal to Test Winsock Connections

IPV PortVision DX _ 🗆 🕳 🗙 <u>F</u>ile <u>M</u>anage <u>V</u>iew <u>T</u>ools <u>H</u>elp 2 Ξ R \swarrow * ٨ 0 4 e Refresh All Properties Save Load Webpage Notes Help About Exit Scan Upload Reboot 📻 Scan Results [1 / 1] PORTVISION Name : Scan Results Use menu or toolbar to add notes in this area. IP Address MAC Address Software Version Status - III Device Name Model List Pane For Help, press F1 Scan Results 1 Ready

Open PortVision DX and high-light the DeviceMaster in the List Pane

Click the "Webpage" icon on the launch bar.

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Comtrol*						DE	VICEM	IASTER	^
Server Status Network Secu	rity E	EMail	RFC1006						
Server Status @									-
Software: SocketServer 10.02	IP	v4 Confid	: Static			IPv6 Con	fig: Statio	с	
Host Name:		Address	: 192.16	3.2.82		Address: 1922::8:0:2a/64			
		Netmas	c: 255.25	5.0.0		Gateway: ::			
		Gateway	/: 192.168	3.0.253			-		
Connection Status	\frown								
	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	
Port Name:									
TCP Connection Status	\smile								
Enabled:	No	No	No	No	No	No	No	No	
Local:	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	
Remote:	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	
Rx bytes:	0	0	0	0	0	0	0	0	
Tx bytes:	0	0	0	0	0	0	0	0	
Serial Status									
Mode:	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	\sim
	0.000	0.000	0000	0.000	0000	0000	0000	0.000	

In the web page click on Port 1

(←) → Ø http://192.168.2.82/editPort.asp?portNum=0	P → C Comtrol Corporation - Devi×
<u> </u>	
Comtrol	DEVICE MASTER
Edit Port 1 Configuration	
Serial Configuration 🖤	DS 222 M
Mode:	
Baud:	9600
Parity:	none V
Data Bits:	
Stop Bits:	
Flow:	none V

Set the serial port parameters.

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<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp					
Rx FIFO Disable:					~
Tx Complete After Close:					
TCP Connection Configuration 🕖					
Enable:					
Listen:	\checkmark		Port: 800	0	
Connect To:		To P	ort: 0 F	rom Port: 0	
Connect On:	🗌 Always	🗌 Data	DSR		
Disconnect On:	🗌 Idle	□ No DSR	No CD		
Idle Timer:	300				
Telnet Com Port Control Option (RFC 2217):					
UDP Connection Configuration 🚱					
Enable Serial To Ethernet					~

Scroll down to the TCP Connection Configuration section

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<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp					
Rx FIFO Disable:					~
Tx Complete After Close:					
TCP Connection Configuration 🔮					
Enable:					
Listen:			Port: 80	00	
Connect To:		То	Port: 0	From Port: 0	
Connect On:	🗌 Always	🗌 Data	DSR		
Disconnect On:	🗌 Idle	🗆 No DSR	🗌 No CD		
Idle Timer:	300				
Telnet Com Port Control Option (RFC 2217):					
UDP Connection Configuration					
Enable Serial To Ethernet					~

Place a checkmark in the "Enable:" option and scroll to the bottom of the page.

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<u>File Edit View Favorites Tools H</u> elp			
Target IP Address	Target Port (serial->eth)	Source Port (serial->eth)	~
	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	
UDP Listen Port:	7000		
Clone Port	Undo Changes Save Help		~

Click the "Save" button

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<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>F</u>	lelp	
COMTROL *		DEVICE MASTER
DEV CE-MASTER	Port Configuration Updated	

On the confirmation page, click the "OK" button.

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<u> </u>									
COMTROL [®]						DE	VICEM	IASTER	^
Server Status Network Secu	urity I	EMail	RFC1006						1
Server Status ø									
Software: SocketServer 10.02 Host Name:	IP	v4 Confi <u>o</u> Address Netmasl Gateway	g: Static 5: 192.168 6: 255.259 7: 192.168	3.2.82 5.0.0 3.0.253		IPv6 Con Addre Gatew	fig: Stations: 1922 Tay: 1:	c ::8:0:2a/64	ţ
Connection Status									
	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	
Port Name:									
TCP Connection Status									
Enabled:	Yes	No	No	No	No	No	No	No	
Local:	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	
Remote:	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	
Rx bytes:	0	0	0	0	0	0	0	0	
Tx bytes:	0	0	0	0	0	0	0	0	
Serial Status									
Mode:	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	~

Now you can see that the port is enabled for Socket Mode connections. Attach the Comtrol supplied Loopback Plug on physical serial port #1 of the DeviceMaster.

IPV PortVision DX		
File Manage View	Tools Help	
Scan Refresh All	Refresh All Scan Network Check for Updates	Image: second
	Log File	•
	Applications	Customize
PORIVI	Options	Test Terminal (WCom2)
Name : Scan Results Use menu or toolbar to a this area.	dd notes in	Port Monitor (PMon2) Putty WireShark Driver Mgmt Console Hercules ComSniff TFTP Updater Prog32 (wcom) Debugger via Putty Hyperterminal Team
		Name Model IP Address MAC Address Software Version Status vice 08:00:2A RTS-8P (DB9) 192.168.2.82 00:C0:4E:08:00:2A SocketServer 10:02 ON-LINE (Remote)

Back to PortVision DX and go to the "Tools" drop down menu. Select Applications and then Test Terminal.



Test Terminal will open as seen here.



From the "File" drop down menu select "Open Port"

Open Ports	×
C Select Ports	OK
COM1 COM2 COM3	Cancel
COM4 COM5 COM6	Settings
O Select Range	
© TCP/IP Sockets	
IP Address	
From Port To Port	
🗖 Secure Data (SSL) Certificate	BS

Select the option for the TCP/IP Sockets

Open Ports	×
O Select Ports	OK
COM1 COM2 COM3	Cancel
COM4 COM5 COM6	Settings
COM7 COM8 COM9 COM10	
C Select Range	
For example: 3-15,21,45,51-56,74	
TCP/IP Sockets	
IP Address 192.168.2.82	
From ort 8000 To Port	
🗖 Secure Data (SSL) Certificati	BS

Enter the IP address of the DeviceMaster. (192.168.2.82 in the example)

Your window may look slightly different, but you will enter the port number of 8000 in the Port or From Port option as seen here. (Your version may not show a "To Port" field) Click "OK"



The Socket window will show the IP address and the Socket Number and the status bar should show OPEN and "Receiving..."



Open the "Port" drop down menu and select "Send and Receive Test Data"

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<u>File Port Settings View Window H</u> elp	
D 🖽 😹 🖽 😹 🖉 🏙 🚥 🎞 🤗	
192.168.2.82:8000	- • ×
ABCDEFGHIJKLMNOPQ ABCDEFGHIJKLMNOPQR ABCDEFGHIJKLMNOPQRS ABCDEFGHIJKLMNOPQRST ABCDEFGHIJKLMNOPQRSTU	*
ABCDEF	+
OPEN [[[[[[[Sending & Receiving	1.
Ready	NUM //

You should then see the data actively scrolling in the window.

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<u>File Edit View Favorites Tools H</u> elp									
Comtrol						DEVI	CE MA	STER	^
Server Status Network	Security EMail	RFC100)6						
Server Status 🛛									
Software: SocketServer 10.02 Host Name:	IPv4 Confi Addres Netmas Gatewa	g: Static s: 192.1 k: 255.2	68.2.82 55.0.0	8	IPv(5 Config Address Gateway	Static 1922:: :::	8:0:2a/64	
Connection Status	Gutewa	y. 192.1		,					1
	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8	
Port Name: TCP Connection Status									
Enabled:	Yes	No	No	No	No	No	No	No	
Local:	[0.0.0.0]:8000	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	
Remote:	[192.168.2.10]:1116	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	
Rx bytes:	42942	0	0	0	0	0	0	0	
Tx bytes:	38558	0	0	0	0	0	0	0	
Serial Status Mode:	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	~

Back to the web page of the DeviceMaster.

Refresh the web page and you will see the connection information of the Local and Remote IP address information. Local does not display the local IP address only the socket port that has been opened. The Remote IP address in this case is the IP address of the PC that is running the Test Terminal application. You should also see the total amount of data transmitted and received. In this case, the RX bytes and TX bytes are what is being transmitted or received on the Ethernet port, NOT the serial port. This example current shows that 42942 bytes have been RECEIVED FROM Test Terminal and the 38558 bytes have been Transmitted TO Test Terminal.

🖳 WCom2 - Test Terminal										
File Po	ort Settings View Window Help									
P	Log To File									
	Show CR/LF/BS									
AB	Send line ends with line feeds									
AB	PnP ID Test									
AB	Loopback Test									
AB	Send Immediate Char									
AB	Send ASCII / HEX String	-								
JOP V	/ Send and Receive Test Data									
Start s	Control >	e NUM //								

Back to the Test Terminal.

Return to the "Port" drop down menu and remove the checkmark on "Send and Receive Test Data" The data should then stop. Close Test Terminal.

								_ _ X			
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<u>File Edit View Favorites Tools H</u> elp											
COMTROL ®						DE	VICEM	ASTER			
Server Status Network Security EMail RFC1006											
Server Status @											
Software: SocketServer 10.02 Host Name:	IPv4 Config: Static Address: 192.168.2.82 Netmask: 255.255.0.0					IPv6 Config: Static Address: 1922::8:0:2a/64 Gateway: ::					
Gateway: 192.168.0.253 Connection Status											
	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8			
Port Name:	_										
TCP Connection Status	\frown										
Enabled:	Yes	No	No	No	No	No	No	No			
Local:	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0			
Remote:	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0	[]:0			
Rx bytes:	64480	0	0	0	0	0	0	0			
Tx bytes:	64480	0	0	0	0	0	0	0			
Serial Status		0.0.000	D.C. 000	D.C. 000	DC 222	D.C. 000	D.C. 000	DC 222 H			
Mode:	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232			

Back to the web page.

Refresh the web page.

Now the connection information will be gone and the Transmit and Receive values should be equal.

That successfully concludes this test.

The Transmit and Receive values will only be reset when the DeviceMaster is rebooted.