

KRAMER ELECTRONICS LTD.

USER GUIDE

Ethernet Configuration Guide (Lantronix)

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1 Connecting to the Kramer Device via the Ethernet Port

You can connect the Kramer machine via the Ethernet in the following ways:

- For direct connection to the PC, use a crossover cable (see <u>Section 1.1</u>)
- For connection via a network hub or network router, use a straight-through cable (see <u>Section 1.2</u>)

1.1 Connecting the Ethernet Port Directly to a PC (Crossover Cable)

You can connect the Ethernet port of the Kramer machine to the Ethernet port on your PC, via a crossover cable with RJ-45 connectors.



This type of connection is recommended for identification of the factory default IP address of the Kramer machine during the initial configuration.

After connecting the Ethernet port, configure your PC as follows:

- 1. Right-click the My Network Places icon on your desktop.
- 2. Select Properties.
- 3. Right-click the relevant Local Area Connection Properties.
- 4. Select Properties.

The Local Area Connection Properties window appears.

 Select the Internet Protocol (TCP/IP) and click Properties (see Figure 1).

🕹 Local Area Connection Properties 🛛 🔹 🏹				
General Advanced				
Connect using:				
Intel(R) PR0/100 VE Network Conne Configure				
This connection uses the following items:				
Install Uninstall Properties				
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
 ✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity 				
OK Cancel				

Figure 1: Local Area Connection Properties Window

 $\mbox{6. Select Use the following IP address, and fill in the details as shown in } \label{eq:eq:entropy}$

Figure 2.

You can use any IP address in the range 192.168.1.1 to 192.168.1.255 (excluding 192.168.1.39) that is provided by your IT department.

7. Click OK.

Internet Protocol (TCP/IP) Prope	erties 🔹 🤶 🔀			
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatical	ly l			
Our of the following IP address: −−				
IP address:	192.168.1.2			
Subnet mask:	255 . 255 . 255 . 0			
Default gateway:	· · ·			
Obtain DNS server address automatically				
Use the following DNS server add	dresses:			
Preferred DNS server:				
Alternate DNS server:				
Advanced				
OK Cancel				

Figure 2: Internet Protocol (TCP/IP) Properties Window

1.2 Connecting via a Straight-through Cable

You can connect the Ethernet port of the Kramer machine to the Ethernet port on a network hub or network router, via a straight-through cable with RJ-45 connectors.

1.3 Default Ethernet Communication Parameters

- IP Address 192.168.1.39
- Subnet Mask 255.255.255.0
- TCP Port 5000 (in some earlier batches TCP Port is set to 10001)

2 Installing and Running DeviceInstaller[™]

To configure your Kramer machine via the Ethernet, install the DeviceInstaller™ configuration software and configure your Ethernet port, and then install the COM Port Redirector to control the Kramer machine.

To configure the Ethernet port you must install and run the DeviceInstaller™ configuration software.

It is important to consider the following points before logging into and configuring the Ethernet port:

- The Kramer machine IP address must be configured before a network connection is available (if you encounter problems, see <u>Section 1.1</u>)
- Only one person at a time may be logged into the network port. This
 eliminates the possibility of several people simultaneously attempting to
 configure the device server
- Network port logins can be disabled. The system manager will not be able to access the unit. This port can also be password protected

2.1 Installing DeviceInstaller™

To install the DeviceInstaller™ Installer, do the following:

- 1. Insert the product CD into your CD-ROM drive.
- 2. Run the DeviceInstaller[™] installer setup.
- 3. Respond to the installation wizard prompts.
- 4. Restart your system.

2.2 Running DeviceInstaller™

Click **Start** on the Task Bar and select **Programs\Lantronix\DeviceInstaller**. The DeviceInstaller™ main dialog box is displayed (Figure 3).

😂 Lantronix DeviceInstaller 4.3.0.1						
File Edit View Device Tools Help PSearch 😑 Exclude 🗞 Assign IP						
Search Coulder Assign the As	Туре	Name	Group	IP Address	Hardware Address	Status
🔽 Ready						.:

Figure 3: DeviceInstaller Main Dialog Box

To search for devices, click the **Search** icon or select **Search** from the Device menu.

2.3 Assigning an IP Address

Figure 4 shows a device found on the network, with the IP addresses assigned at the factory. The hardware address is an individual permanent address assigned to a particular device on the network. The hardware address is found on the product label inside the unit.



Note: Click on a device to view its attributes (see Figure 4).

le Edit View Device Tools Help Search 🤤 Exclude 📚 Assign IP 🤯 Upgrai	de		
🚛 Lantronix Devices - 1 device(s)	Device Details W	eb Configuration Telnet Configuration	
😑 💑 Local Area Connection (172.17.9.7)	Reload Details		
😑 🧰 XPort	Reload Decails		
😑 🦇 XPort-03/04 - firmware v6.5.0.3		Property	Value
372.17.8.10	in non	Name	FC-3ETH
	KOU	DHCP Device Name	
		Group	
	1 BAV	Comments	
		Device Family	×Port
		Туре	XPort-03/04
		ID	×5
		Hardware Address	00-20-4A-8C-09-A7
		Firmware Version	6.5
		Extended Firmware Version	6.5.0.3
		Online Status	Unreachable
		IP Address	172.17.8.10
		IP Address was Obtained	Statically
		Subnet Mask	255.255.0.0
		Gateway	0.0.0.0
		Number of COB partitions supported Number of Ports	6
		TCP Keepalive	0
		Telnet Enabled	True
		Teinet Enabled	9999
		Web Enabled	True
		Web Port	80
		Maximum Baud Rate Supported	921600
		Firmware Upgradable	True
		Supports Configurable Pins	True
		Supports Email Triggers	True
		Supports AES Data Stream	False
		Supports 485	True
		Supports 920K Baud Rate	True
		Supports HTTP Server	True
		Supports HTTP Setup	True
		Supports 230K Baud Rate	True
		Supports GPI0	True

Figure 4: Device Details

Note: The Web Configuration option is recommended.

To change the IP address:

- Select the device from the list (see <u>Figure 4</u>), then click the Assign IP button or select Assign IP Address from the Device menu.
- 2. Select the assignment method and click Next.

S Assign IP Address	
	Assignment Method Would you like to specify the IP address or should the unit get its settings from a server out on the network? Obtain an IP address automatically Assign a specific IP address TCP/IP Tutorial
	<back next=""> Cancel Help</back>

Figure 5: Selecting the Assignment Method

 Fill-in the IP address, Subnet mask and Default gateway to assign to the device and click Next.



Figure 6: Fill in IP Settings

4. If the Address Unreachable window appears, click Yes.



Figure 7: Address Unreachable Window

5. Click Assign to complete the process.

S Assign IP Address		\mathbf{X}
	Assignment Click the Assign button to complete the IP address assignment. Assign	
	< Back Finish Cancel Help	

Figure 8: Assign IP Address

The assignment progress bar is displayed.

S Assign IP Address	
	Assignment Click the Assign button to complete the IP address assignment.
÷	Finish Help

Figure 9: IP Address Assignment Process

2.3.1 Testing the IP Address

To test the IP Address, do the following:

- 1. Select the device from the main window list.
- 2. Click **Ping** from the Tools menu. The Ping Device dialog box shows the IP

Address of the selected device.

The Ping program verifies that the IP address of the selected device exists on the network

🖉 Ping Device		
IP Address: 192.168.1.39	Ping	Clear Status
Status:		
		<u> </u>
<		>
		Close

Figure 10: Ping Device Window

 Click Ping. The results will be displayed in the Status window. Click Clear Status to clear the window so you can ping the device again.

🖉 Ping Device	X
IP Address:	
192.168.1.39	Ping Clear Status
Status:	
Reply from 192.168.1.39 bytes=60 time=0ms TTL=64 Reply from 192.168.1.39 bytes=60 time=0ms TTL=64 Reply from 192.168.1.39 bytes=60 time=0ms TTL=64 Reply from 192.168.1.39 bytes=60 time=0ms TTL=64	
	>
	Close
	//



4. Click **Close** to close the dialog box and return to the main window.



Note: If you do not receive "Reply" messages, make sure the unit is properly attached to the network and that the IP address assigned is valid for the particular network segment you are working with. If you are not sure, check with your systems administrator.

2.4 Configuring the Ethernet Port Using DeviceInstaller™

You must configure the Ethernet port so that it can communicate on a network with your serial device. For example, you must set the way the unit responds to serial and network traffic, how it handles serial packets, and when to start or close a connection. You can configure your unit locally or remotely using the following procedures:

- Use the DeviceInstaller[™] to configure the unit. Some features are only available through the DeviceInstaller[™] Installer menus
- Use a standard Web browser to access the unit's internal Web pages and configure the unit over the network (see <u>Section 2.5</u>). This is the easiest and preferred method

 Make sure that the Java[™] 2 Runtime Environment (Standard Edition, Version 1.4.1 or higher) software is installed on your PC. If not, download it from <u>http://java.sun.com</u>

The unit's configuration is stored in non-volatile memory and is retained without power. The unit performs a reset after the configuration has been changed and stored.

2.5 Configuring the Ethernet Port Using the Web Manager Page

To configure the Ethernet Port via a Web browser:

1. Select the Web Configuration tab (see Figure 12).

😂 Lantronix DeviceInstaller 4.3.0.1		
File Edit View Device Tools Help Search 🔿 Exclude 🗞 Assign IP 🙆 Upgrade		
Eartonix Devices 1 device(1) Eartonix Devices 1 device(1) Eartonix Devices 1 device(1) Eartonix Connection (172.17.3.7) E Areat Areat	Device Detals [Web Configuration] Takes Configuration	- D 2 0 9 4
	Please press the Go button to navigate to the device.	
🖸 Ready		.::

Figure 12: The Web Configuration Tab

- 2. Select either the internal Web browser (GO) or the External Browser.
- After clicking GO (for the internal browser), the "Connect to..." window appears.

Connect to 172.1	7.9.200		(? 🗙
			AP	
The server 172.17.9. password. Warning: This server password be sent in a without a secure com	is requesting an insecure m	that your (username -	and
User name: Password:	£			~
	Remembe	er my passv	word	
		ок	Cano	el

Figure 13: The Connect to...Window

4. Click OK.

The Web Manager window is displayed.



Figure 14: The Web Manager Window

Device Details Web Config	guration Telnet Configuration	
< 🔁 🋞 Address: 🔣	p://172.17.9.200/secure/ltx_conf.htm	- 🔁 😌 🚫 💬 🖾
	Firmware Version: V6.5.0.3 MAC Address: 00-20-4A-8C-09-A7	7
츕	Network Settings	
Network		
Server	IP Configuration	
Serial Tunnel	-	
Hostlist Channel 1	 Obtain IP address automatically 	
Serial Settings	Auto Configuration Methods	
Connection	BOOTP: Enable Disable 	
Email	DHCP: Enable Disable 	
Trigger 1	AutoIP: Enable Disable 	
Trigger 2 Trigger 3		
Configurable Pins	DHCP Host Name:	
Apply Settings	Use the following IP configuration:	
Apply Defaults	IP Address: 172.17.9.200	
	Subnet Mask: 255.255.255.0	
	Default Gateway: 172.17.9.254	
	Ethernet Configuration	
	Auto Negotiate	
	Speed: 10 Mbps 10 Mbps	
	Duplex:	
	ОК	

Figure 15 shows the Network Settings window.

Figure 15: Network Settings Window

Birmware Version: V6.5.0.3 McC Address: 00-20-4A-8C-09-A7 Act Address: 0-20-4A-8C-09-A7 Metwork Server Server Retry Settings Retry Counter: 3 Retry Timeout 250 Host Information No. Host Address Port No. Host Address Port Trigger 1 Trigger 3 0.0.0.0 0 4 0.0.0.0 0 7 0.0.0.0 0 8 0.0.0.0 0 9 0.0.0.0 0 1 0.0.0.0 0 9 0.0.0.0 0 1 0.0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0 0 1 0.0.0	MAC Address 00-20-4/ Metwork Server Serial Tunnel Hostlisi Retry Settings Retry Counter: 3 Retry Timeout 250 Host Information Connection No. Host Address Port No. Host Address	A-8C-09-A7
Motivork Hostlist Settings Network Server Server <th>Hostlist Settings Hostlisi Server Serial Tunnel Hostlisi Channel 1 Senal Settings Connection Mo. Host Address Port No. Host Address Port No. Host Address</th> <th></th>	Hostlist Settings Hostlisi Server Serial Tunnel Hostlisi Channel 1 Senal Settings Connection Mo. Host Address Port No. Host Address Port No. Host Address	
No. Host Information Trigger 1 Trigger 3 Opfingurable Pins opply Settings 0.0.0 upply Defaults 0.0.0	letwork serial Tunnel Hostliaf thannel 1 Serial Settings Connection mail	ess Port
No. Host Isi Retry Settings Channel 1 Retry Counter: 3 Retry Timeout: 250 Serial Settings No. Host Information Connection I 172:16.8.11 10001 2 0.0.0 0 Trigger 3 0.0.0 0 4 0.0.0 0 5 0.0.0 0 7 0.0.0 0 8 0.0.0 0	Server Serial Tunnel Hostling Retry Settings Retry Counter: 3 Retry Timeout. 250 Host Information No. Host Address Port No. Host Address	ess Port
No. Host Information Serial Settings Retry Counter: 3 Retry Timeout: 250 Channel 1 Serial Settings Host Information 50 0.0.0.0 0 1 172.16.8.11 10001 2 0.0.0.0 0 1 172.16.8.11 10001 2 0.0.0.0 0 3 0.0.0.0 0 4 0.0.0.0 0 7 0.0.0.0 0 6 0.0.0.0 0 7 0.0.0.0 0 8 0.0.0.0 0	Serial Tunnet Retry Settings Hostlisis Retry Counter: 3 Retry Timeout: 250 Connection Host Information Mo. Host Address Moil Host Address Port No. Host Address	ess Port
No. Host Lig Port No. Host Address Port Serial Settings Host Information 1 172.16.8.11 10001 2 0.0.0.0 0 Trigger 1 Trigger 3 3 0.0.0.0 0 4 0.0.0.0 0 Strings vply Defaults 7 0.0.0.0 0 8 0.0.0.0 0	Host ling: Channel 1 Serial Settings Connection mail	ess Port
No. Host Information Final 1 172.16.8.11 10001 2 0.0.0.0 0 Trigger 3 3 0.0.0.0 0 4 0.0.0.0 0 2 Configurable Pins Apply Defaults 7 0.0.0 0 8 0.0.0.0 0 0	Channel 1 Senal Settings Connection Email No. Host Address Port No. Host Address	ess Port
No. Host Information Trigger 1 Trigger 2 Trigger 3 0.0.0.0 Configurable Pins Apply Defaults	Serial Settings Connection Mo. Host Address Port No. Host Address	ess Port
Connection No. Host Address Port No. Host Address Port Imail Trigger 1 1 172.16.8.11 10001 2 0.0.0.0 0 Trigger 3 3 0.0.0.0 0 4 0.0.0.0 0 Oply Settings 5 0.0.0.0 0 6 0.0.0.0 0 Apply Defaults 7 0.0.0.0 0 8 0.0.0.0 0	Connection No. Host Address Port No. Host Address	ess Port
mail 1 172 16.8.11 10001 2 0.0.0 0 Trigger 2 3 0.0.0 0 4 0.0.0 0 onfigurable Pins 5 0.0.0 0 6 0.0.0 0 yply Settings 7 0.0.0 0 8 0.0.0 0	mail	
Trigger 2 3 0.0.0.0 0 4 0.0.0.0 0 Apply Settings 5 0.0.0.0 0 6 0.0.0.0 0 Apply Defaults 7 0.0.0.0 0 8 0.0.0.0 0		
Trigger 3 3 0.0.0 0 4 0.0.0 0 Configurable Pins 5 0.0.0 0 6 0.0.0 0 Apply Settings 7 0.0.0 0 8 0.0.0 0	nigger i	0
Configurable Pins 5 0.0.0 0 6 0.0.0 0 Apply Settings 7 0.0.0.0 0 8 0.0.0.0 0		0
pply Defaults 7 0.0.0.0 0 8 0.0.0.0 0	and annelle Disc	0
	7 0000 0 8 0000	0
	Apply Defaults 9 0.0.0 0 10 0.0.0	
	0.0.0.0	
	ОК	
ОК		
ОК		

Figure 16 Shows the Hostlist Settings window.

Figure 16: Hostlist Settings Window



Note: In order to work in the active mode, you must add the remote host IP address and port number to the Hostlist Settings table.

Device Details Web Config	uration Telnet Configuration
C 🕞 🛞 Address: 🔣	v://172.17.9.200/secure/ltx_conf.htm 🔤 🔁 🥲 🕴 💬 🖼
	Firmware Version: V6.5.0.3
	MAC Address: 00-20-4A-8C-09-A7
쇼	Connection Settings
Network	Connection octaings
Server	Channel 1
Serial Tunnel	Connect Protocol
Hostlist	
Channel 1 Serial Settings	Protocol: TCP Connect Mode
Connection	Passive Connection: Active Connection:
Email	
Trigger 1	Accept Incoming: No Active Connect: With Any Character
Trigger 2	Password Required: O Yes O No Start Character: 0x 0D (in Hex)
Trigger 3	
Configurable Pins	Password: Modern Mode: None
Apply Settings	Modern Escape Sequence Pass Through:
Apply Defaults	No No
	Endpoint Configuration:
	Local Port 10001 Auto increment for active connect
	Remote Port 10001 Remote Host 172.16.8.167
	Common Options:
	Telnet Mode: Disable 🗸 Connect Response: None 🗸
	Terminal Name: Use Hostlist: O Yes O No
	Disconnect Mode
	On Mdm_Ctrl_In Drop: O Yes O No Hard Disconnect: Yes O No
	Check EOT(Ctrl-D): Yes No Inactivity Timeout: 0 : 0 (mins : secs)
	OK

Figure 17 Shows the Connection Settings window.

Figure 17: Connection Settings Window

Figure 18 shows the Serial Settings window.

|--|

	M	AC Address: 00-20-4A-8C-09-A7				
命	Seria	I Settings				
Network		i ootango				
Server	Channel 1					
Serial Tunnel Hostlist	Disable Serial Port					
Channel 1	Port Settings					
Serial Settings Connection	Protocol: RS232	Flow Control: None				
Email	Baud Rate: 9600 💌 🛛 Data Bits: 8 💌	Parity: None 💌 Stop Bits: 1 💌				
Trigger 1						
Trigger 2	Pack Control					
Trigger 3 Configurable Pins	Enable Packing					
Apply Settings	Idle Gap Time: 12 msec 🕑					
Apply Defaults	Match 2 Byte Sequence: Yes No	Send Frame Only: Ores No				
	Match Bytes: 0x00 0x00 (Hex)	Send Trailing Bytes: None One Two 				
	Flush Mode					
	Flush Input Buffer	Flush Output Buffer				
	With Active Connect. O Yes No	With Active Connect: O Yes No				
	With Passive Connect: O Yes No 	With Passive Connect: O Yes No				
	At Time of Disconnect: O Yes 💿 No	At Time of Disconnect: O Yes 💿 No				
		OK				

Figure 18: Serial Connection Settings Window

3 Installing and Configuring Com Port Redirector Software

The Com Port Redirector allows any PC running Windows to use ports on a Kramer device as if they were connected directly to the PC. The Redirector creates a virtual COM port within Windows that acts just like the selected serial port on the Kramer device.

CPR supports Windows XP, Windows 2000 and 2003 server, and Windows Vista, including Terminal Services.

Com Port Redirector consists of the following modules:

- CPR Manager enables you to map com ports to device servers, configure and test comports
- CPR Monitor enables you to identify and troubleshoot problems

Find detailed instructions for using the modules in the Com Port Redirector online Help.

Overall Procedure

The following procedure summarizes the steps for using Com Port Redirector:

- Install Com Port Redirector on each PC that communicates with the device server.
- 2. Review the general usage guidelines for the device server.
- 3. Configure the device server and Com Port Redirector.
- 4. Verify the connectivity between Com Port Redirector and the device server.

3.1 Installing the Com Port Redirector Software

To install Com Port Redirector:

- 1. Perform the appropriate step to start the installation:
 - If Com Port Redirector is on a CD-ROM, insert the CD-ROM into the computer's CDROM drive and click the Redirector button,

—or—

 If you downloaded Com Port Redirector, double-click the downloaded file.

The Lantronix CPR Welcome window is displayed.



Figure 19: Lantronix CPR Welcome Window

2. Click the Next button. The Select Installation Folder window is displayed.



Figure 20: Select Installation Folder Window

- Browse to the folder where you want to install the CPR. We recommend you select the default.
- 4. To view available disk space on your drives, click the Disk Cost button.
- 5. Click the Next button. The Confirm Installation window is displayed.





6. Click the Next button.

The installation begins; then a warning message is displayed indicating that CPR has not passed Windows Logo testing.

Software	Installation
1	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why</u> <u>this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

Figure 22: Security Confirmation Window

7. Click the Continue Anyway button.

The installation continues and the warning is displayed again.

 Click the Continue Anyway button again. The installation continues until the Installation Complete window is displayed.



Figure 23: Installation Complete Window

9. Click the Close button.

3.2 Configuring the Com Port Redirector

Note: Observe the following general guidelines when preparing the device server for use with Com Port Redirector:

- Do not run the Com Port Redirector with other software that installs a virtual com port
- Do not run the Com Port Redirector with other Com Port Redirection software on the same PC
- The device server to which Com Port Redirector will connect must have an
 IP address
- The PC running Com Port Redirector must have a good network connection
 to the device server
- Do not use com ports 1, 2, 3 or 4
- If redirecting over a Wide Area Network (WAN), both the PC and the device server must have a correct gateway address configured in their TCP/IP settings

Serial settings on the Kramer device must match the settings of the serial device.

Serial settings include:

- Baud rate
- Parity
- Stop bits
- Flow control
- Interface mode (RS-232 or RS-422/485)
 Consult your device server documentation for information about configuring these serial settings for your device server
- Connect/Disconnect and Access Modes—You must configure the way the device server accepts a connection appropriately for the device server to accept a network connection from Com Port Redirector
- Serial cabling between the managed serial device and the device server must be correct.
 Consult your documentation for the pinouts of your device server

For specific instructions, refer to your Kramer device user manual (see the "Controlling via Ethernet" section), the latest version of which can be downloaded from our Web site at <u>http://www.kramerelectronics.com</u>.

To configure the Com Port Redirector:

 From your Windows desktop click Start > All Programs > Lantronix > CPR.

The Lantronix Com Port Redirector program starts and the main window is displayed.

	Device Tools															
			arch For Devices 🤤 E	xclude												
iom Ports			ort List General Tests													
😑 📫 🗚 Com Po	ats [1]		Port	IP Address		TCP Port	Com Status	Network Status	2217	BfiWr	SviRec	NoCls	CntTO	TORec	KpAlv	
😑 🗀 Com 1 -		- ta	Com 1 (Inaccessible)													
- 🄯 Com	n 1 (Inaccessible															
evice List															Col	lapse
evice List IP Address	# Ports	TCP Port	Product		ID	HW Address		Network Interface	Device	Name		Port	Name		Col	lapse
	# Ports	TCP Port	Product		ID	Hw Address	:	Network Interface	Device	Name		Port	Name		Col	lapse
	# Ports	TCP Port	Product		ID	Hw Address	: []	Network Interface	Device	Name		Port	Name		Col	lapse
	E Porte	TCP Port	Product		ID	Hw Address		Network Interface	Device	Name		Port	Name		Col	lapse
	E Ports	TCP Port	Product		ID	Hw/ Address		Network Interface	Device	Name		Port	Name		Col	lapse
	# Ports	TCP Port	Product		ID	HW Address		Network Interface	Device	Name		Port	Name		Col	lapse

Figure 24: Com Port Redirector Main Window

2. Click Add/Remove to add com ports.

The Com Ports window is displayed.

Com Ports						
✓ Com1	Com21	Com41	🔄 Com61	Com81	Com101	Com121
Com2	Com22	Com42	Com62	Com82	Com102	Com122
Com3	Com23	Com43	Com63	Com83	Com103	Com123
Com4	Com24	Com44	Com64	Com84	Com104	Com124
Com5	Com25	Com45	Com65	Com85	Com105	Com125
Com6	Com26	Com46	Com66	Com86	Com106	Com126
Com7	Com27	Com47	🔄 Com67	Com87	Com107	Com127
Com8	Com28	Com48	Com68	Com88	Com108	Com128
Com9	Com29	Com49	Com69	Com89	Com109	Com129
Com10	Com30	Com50	🔄 Com70	Com90	Com110	Com130
Com11	Com31	Com51	🔄 Com71	Com91	🔄 Com111	Com131
Com12	Com32	Com52	🔄 Com72	Com92	Com112	Com132
Com13	Com33	Com53	🜅 Com73	Com93	🔄 Com113	Com133
Com14	Com34	Com54	🔄 Com74	Com94	Com114	Com134
Com15	Com35	Com55	🔄 Com75	Com95	🔄 Com115	Com135
Com16	Com36	Com56	🔄 Com76	Com96	Com116	Com136
Com17	Com37	Com57	🔄 Com77	Com97	Com117	🔄 Com137
Com18	Com38	Com58	🔄 Com78	Com98	Com118	Com138
Com19	Com39	Com59	🔄 Com79	Com99	Com119	Com139
Com20	Com40	Com60	🔄 Com80	Com100	Com120	Com140
<						>
ОК	Cance		heck (Range)] 1 😂 ta	256 😂	
			neek (nange)		200 💌	
Select All	I Select N	one] [Un	check (Range)) 1 🛟 ta	o 256 🤤	

Figure 25: Com Ports Window

3. Using the check boxes, select the com port(s) to install.

You can select/deselect multiple com ports by using the **Check (Range)** and **Uncheck (Range)** options.

4. Click OK.

The selected com port(s) are displayed in the Com Port Redirector main window.

🔷 CPR Manager 4.	3.0.0													
File Com Port D	evice Tools	Help												
🏷 Add/Remove 🛛 🖓 S	Save 💽 Refre	ish 🔑 Sei	arch For Devices	🖨 Exclude										
Com Ports				Hide 🖨	Com Port L	ist								
🖃 📫 All Com Ports	: (2)				Com Port		IP Address	TCP Port	Com Status	Network Status	2217	BfrWr	SvrRec	Nol
- Com 1 - 5	fInaccessible	1			Cor	n 1 (Inaccessible)								_
- 🧊 Com 5	(Inaccessible i (New)					in o (iron)								
					1									
Device List		_											Collaps	ie 🔽
IP Address	# Ports	TCP Port	Product		ID	HW Address	Network I	interface	Device Name	P	ort Name			
Complete!											Modifie	I		:

Figure 26: Com Ports Window Showing New Port

- 5. Click Save.
- 6. A confirmation dialog box is displayed. Click **Yes**.
- 7. The Windows security warning is displayed. Click Continue Anyway.
- 8. The Windows security warning is displayed again. Click Continue Anyway.
- 9. Click **Search for Devices** to scan the network for devices.

After a few seconds, any devices that are discovered are displayed in the device list pane.

Elle Com Port Dev	vice Tools	Help												
Add/Remove 🛛 🕞 Sar	-		arch For Device:	s 🤤 Exclude										
Com Ports				Hide 🤤	Com Port	List General Tests								
■ ♣ All Com Ports (■ ♣ Com 1 - 5 ↓ ♥ Com 1 (↓ ♥ Com 1 (↓ ♥ Com 5		•]			Com Po	om 1 (Inaccessible)	IP Address	TCP Port	Com Status	Network Status	2217	BfiWr	SwRec	
Device List													Collaps	æ
IP Address	# Ports	TCP Port 10001	Product XPort-03/04		ID ×5	HW Address 00:20:44:80:09:47	Network 172.17.9.		Device Name		Port Name			-
172.17.3.200		10001	AP011-03/04		70	00.20:44:80:03:47	172.17.3.	ſ						

Figure 27: Devices Found on the Network

Installing and Configuring Com Port Redirector Software

10. In the Com Ports pane, select the required com port.

The com port properties are displayed in the settings tab in the right hand pane.

CPR Manager 4.3.0.0										
File Com Port Device Tool	Help									
Add/Remove 🛛 🔚 Save 💽 Rel	resh 🔑 S	Search For D	evices 🤤 E	xclude						
m Ports Hide	😑 Settir	gs Com 5	Tests							
All Com Ports (2)	Cor									
Com 1 (Inaccessib	Ϋ́ν	/indow's Po /indow's De /indow's Se	vice Name:	Lantronix CPR \Device\CprD CprDrvr				Com Status: Network Status:	Closed Disconnected	
	0	Reset to ()efaults	Cancel E	dits					
		Buffer Wi Server Re No Net C		necked for bet	ter wri	e perform	ance)	7 🛟 C Timeout Recon	connection Timeout (in nect 0 🛟 Rec	seconds) connect Limit (0 = forever)
		Listen Mo	de	Normal - p	ort clos	ed after d	isconnect	<u>v</u> TC	P Port	Add To Firewall
		TCP Keep	Alive	7200000	🗘 Ke	epAlive Ti	ne (msec)	1000 💲 KeepA	live Interval (msec)	
		RFC 2213 (TruPort) Service F 1 2		Tie DTR b			WARNIN firewall, I added to	then UDP ports 307	718, 43282 and 43 usion list. You may	f a router or a remote 283 may need to be experience trouble tot excluded.
		3 4 5 6					are unab Firewall o button to 'Remove	le to connect to a on this machine is l add this port to th	device server, one blocking this port. e Firewall. If the l bort has already be	UDP port 43283. If you possible cause is the Press the 'Add Rx Port' button caption reads en added and can be
		7 8					lemoreu	Remove Rx Port	The Firewall is tu	medOFF
					_					
vice List										Collaps
P Address # Port					ID	HW Ac		Network Interface	Device Name	Port Name
- <u>\$</u> 172.17.9.200 1	10001	XPort-03	/04		×5	00:20:4	A:8C:09:A7	172.17.9.7		

Figure 28: Highlighting a Com Port

11. In the Device List pane, right-click the device to associate it with the com port.

S CPR Manager 4.3.0.0	
	Help
🖉 Add/Remove 🛛 🙀 Save 💽 Refrest	P Search For Devices 😄 Exclude
iom Ports Hide 🤤	Settings Com 5 Tests
All Com Ports (2)	Com 5
Com 1 (Inaccessible)	Vindovi/ Pot Name: Latitorii CPR Pot (CDM5) Vindovi Device Name: Oevice(CpDevice5 Can Statu: Closed Windovi Streve Name: CpU-vindovi Statu: Disconnected
	Reset to Defaults Cancel Edits
	Buffer Writes (Keep checked for better write performance) 7 Connection Timeout (in seconds)
	Server Reconnect No Net Close Reconnect Limit (0 = forever)
	Listen Mode Normal - pott closed after disconnect v TCP Port Add To Firewal
	CP KeepAlive 7200000 C KeepAlive Time (msec) 1000 KeepAlive Interval (msec)
	BFC 2217 DTR (n) Implifie DDR Inclosed States active Service: Host 1 TCP Port WARNINGI If the Host is on the other side of a router or a remote inferval, then UDP ports 30718, 43282 and 43283 may need to be added to the firewall's accutation sitt. You may experiment brouble on the other main three UDP ports and end excluded.
	3 Alto, some logacy device servers respond on UDP port 4203. If you are unable to connect to a device server, no possible cause it he fixewall on this machine is blocking this port. Press the Yadd Ris Port but to a dd this part to the Fixewall. The button caption reads 5 button to add this part to the Fixewall. It he button caption reads 6 Tennove Ris Part then the port has already been added and can be removed by pressing this button.
	8 Remove Bx Port The Firewallis turned OFF
evice List	Colapse
IP Address # Ports	TCP Port Product ID HW Address Network Interface Device Name Port Name
2 172.17.9.200 1 ···	0001 XPoxe03/04 Add 5 Setting
	Launch Web Interface to Device

Figure 29: Assigning a Device to a Com Port

12. In the drop-down menu, click Add to Settings.

The device is added in the Host column on the Settings tab.

Service	Host	TCP Port	1
1	172.17.9.200	10001	
2			
3			
4			
5			
6			
7			
8			

Figure 30: Device Added to Com Port

- 13. Optional—If your PC is behind a firewall, click **Add Rx Port** to open the port on the firewall.
- 14. Click Save.