Mx1053 UNI Installation Manual

(Ax2200 Board)

The Universal Network Interface (UNI) is connected to a CNC control. The UNI "virtualizes" the local serial port to an IP Address & TCP port for remote access by Ethernet enabled software. On the UNI, COM1 is reserved for the serial port to the control (also called Port D internally). All ports have pin 9 capable of bringing in power (12-24VDC) – see Jumper JP33.

The usual order of installation is as follows:

1. With the power off, install the UNI noting the power supply and cable connections. Usually a serial cable will be supplied, but in case it is not the DB9 on the UNI is like a standard PC serial port with pin 9 being a power input (or output).



Mx1053 Universal Network Interface - Rev 7

- 2. Connect the UNI RJ-45 Ethernet port up to a working CAT5 cable connected to the corporate LAN.
- 3. On your DNC server, load the supplied software:
 - a. Install the AxHDU Utility from the CD and configure the Ax2200 then install i. AxDNC

Connecting Power to the Mx1053

The Mx1053 UNI can be powered by three methods, as follows:

- +24 VDC from the COM1 CNC serial port on Pin 9 of the incoming female DB9 connector attached to the CNC data port of the control (COM1 CNC Connector) NOTE: Use this option for Fanuc Controls.
- External +18 24 VDC applied to the J7 Terminal Block Header located to the right of DB9 COM3 serial port.
- 3. External +5 VDC applied to the J7 Terminal Block Header located to the right of DB9 COM3 serial port. JP10, Reg ENBL, does not need to be jumpered if 5VDC is to be used for the main power supply.

Warning: Do not use both 5VDC and 18 to 24 VDC for external power. Only one type must be used to power the board.

Warning: Do not use both +24VDC from COM1 CNC serial port and external power. Only one type must be used to power the board.

To set the jumper settings on the Mx1053 upon which the Ax2200HS has been placed, follow the instructions 1 to 8 below.



Mx1053 Power and Jumper Setting

1. Jumper Setting JP31 and JP32: Set jumper setting to "B" position in order to route the com port of the Ethernet module to the COM1 – CNC port (see diagram below).



Mx1053 Jumper Setting for JP31 and JP32

- CNC COM1: A standard Fanuc DB9F to DB25M, with +24V routed through pin 9 on the DB9 and pin 25 on the DB25, can be supplied with the Mx1053. The DB9F of the cable is connected to the CNC port of the Mx1053 and the DB25M is connected to the DB25F RS232 serial port of a Fanuc CNC machine.
- 3. Jumper Setting P1, P3, P4 and P5: Reroutes the RJ12 Mx2000 HOI Terminal Signal to COM2 as well as COM3. Set jumper setting to "D" position (see diagram below).



Mx1053 RJ12 Jumper Setting for P1, P3, P4 and P5

- 4. Jumper Setting JP16 + 24 TR: Routes +24 VDC to provide Power to the Mx1053 if a tape reader is being used. Set jumper setting to OFF position.
- Jumper Setting JP33 COM3/RJ12 PWR: Routes +9 VDC to COM3 for the Mx2000 Terminal (9VDC @ 350 mA). Set jumper setting to OFF position. If an Mx2000 Terminal is to be used, set jumper setting to ON position.

Described below are the three power options. Please choose the option that best describes your scenario.

Option 1 - +24 VDC from the COM1 CNC serial port on Pin 9 of the incoming female DB9 connector attached to the CNC data port of the control (COM1 CNC Connector)

- 6. Jumper Setting JP10 REG ENBL: Enables the 5V DC Voltage Regulator to provide power to the Ethernet module. Set jumper setting to **ON** position.
- 7. Terminal Block for Power J7: Do not connect any POWER to this connector.



Mx1053 Terminal Block for =18-24 VDC or 5VDC Option J7

8. Jumper Setting JP1 PWR DB9-COM1: Routes +24 VDC from Pin 9 of COM1 DB9 connector to provide power to the board. Set jumper setting to **ON** position if routed through DB9 COM1 cable.

Note: The option to use +24V on the CNC COM1port is available if +24VDC has been routed through the cable from the Control's RS232 connector.

Option 2 - External +18 – 24 VDC applied to the J7 Terminal Block Header located to the right of DB9 COM3 serial port.

- 6. Jumper Setting JP10 REG ENBL: Enables the 5V DC Voltage Regulator to provide power to the Ethernet module. Set jumper setting to **ON** position.
- 7. Terminal Block for Power J7: Route external power to provide power to the Mx1053. +18 to 24 VDC and GND on Pin 3 (see Item 3, below).



Mx1053 Terminal Block for =18-24 VDC or 5VDC Option J7

- Jumper Setting JP1 PWR DB9-COM1: Routes +24 VDC from Pin 9 of COM1 DB9 connector to provide power to the board. Set jumper setting to OFF position if +24VDC is not being routed through DB9 Connector.
- 9.
- Note: The option to use +24V on the CNC COM1port is available if +24VDC has been routed through the cable from the Control's RS232 connector.

Option 3 - External +5 VDC applied to the J7 Terminal Block Header located to the right of DB9 COM3 serial port. JP10, Reg ENBL, does not need to be jumpered if 5VDC is to be used for the main power supply.

- 6. Jumper Setting JP10 REG ENBL: Enables the 5V DC Voltage Regulator to provide power to the Ethernet module. Set jumper setting to **OFF** position.
- 7. Terminal Block for Power J7: Route external power to provide power to the Mx1053. +5 VDC on Pin 2 (see Item 2, below) and GND on Pin 3 (see Item 3, below).



Mx1053 Terminal Block for =18-24 VDC or 5VDC Option J7

 Jumper Setting JP1 PWR DB9-COM1: Routes +24 VDC from Pin 9 of COM1 DB9 connector to provide power to the board. Set jumper setting to OFF position if +24VDC is not being routed through DB9 Connector.

Note: The option to use +24V on the CNC COM1port is available if +24VDC has been routed through the cable from the Control's RS232 connector.

Use AxHDU To Configure The UNIs Over the LAN

Mx1053 - Ax2200HS - Configuration Summary

- 1. At a PC station, if the AxHDU (High Speed Deployment Utility) software is not already installed, please install it now.
- 2. Launch the AxHDU software.
- 3. Click on the Search button to search for any Mx1053s on the Network. The Mx1053 is shipped using **DHCP** mode.
- 4. Click on the Device with the appropriate MAC address to highlight it and click on setup. This will bring up a window that will provide information on the serial configuration of the Mx1053 and the Network information of the Ax2200HS device.

To change the IP address to a Static IP address, uncheck Enable DHCP and insert the IP Address, Subnet Mask and Gateway Address. (Note: It is advisable to change the IP address from DHCP to a static IP address once it is seen on the network.)

For the Serial port settings, the CNC setting for the Ax2200HS is the **only** section that needs to be modified. It needs to match the control that the Mx1053 is attached to.

- a. Serial Baud Rate.
- b. Data Bits.
- c. Parity Bits.
- d. Stop Bits.
- e. Flow Control.
- f. Wait for XON.

After the Serial and Network Settings has been updated, write the configuration to the Mx1053 by going to the top left of the configuration menu and clicking on **Config** \rightarrow **Write** \rightarrow **All.** Click on Exit to leave the configuration menu.

5. The serial and network configuration has now been completed.

Using the AxHDU Utility

Go to Start > Programs > AxHDU and click on the menu item.

AxDNC AxHDU AxHDU Uninstaller AxHDU AxOEE Manager BarTender 9.3 BerBible Folder Bomgar	Ŧ
Back Search programs and files	

况 UMI HS Deployment U	Itility (Version 1.0.4	4)			_ D X
Exit Tools					
Network Options		D	evice List		
Search	MAC Address 00-20-4A-9F-42-FF 00-20-4A-9F-45-B4	Hostname JJR4 MACSIM00	IP Address 10.10.1.251 10.10.1.244	Subnet 255.255.255.0 255.255.255.0	IP Port # 4444 4444
Reset	00-20-44-9F-C8-76 00-20-4A-9F-FE-32 00-20-4A-B3-68-56	MACSIM01 WAC 205ip 248	10.10.1.39 10.10.1.242 10.10.1.248	1DHCP1 255.255.255.0 255.255.255.0	4444 4444 4444
Clear Search Options					
Time out: 5					
IP Scan Settings					
10.10.1.57					
00-1F-3C-A3-24-49	<u> </u>		-		
Status:		Search	n Time:	Devices	Found: 5

The UMI HS Deployment utility's search window will appear.

Click on "Search" to poll the network for Ax2200 network modules attached to the Mx1053 UNI and display a list of devices found.

Identify the device to be configured on the Device list by comparing the MAC address display to the one printed on the Mx1053 (Silver Lantronix module). Click on the device on the list and click on 'Setup' button to open its configuration window.



The Setup utility window appears.

Communication	ns Setup Utility	0 20 1	1	100	— ×
Exit File Config	g		Carial	Canfinantia	
ſ			Selial	Configuratio	'n
Lantronix Netv	work Identification	Lantronix S	erial Port Settings —		
Host Name:	YOUR CHOICE	COM Port:	PACE	Default	DNC - Host Default
		BAUD:	9600 👻	9600	115200 - 230000
MAC Address:	00-20-4A-9F-C8-76	Format:	8,None,1 👻	8,None,1	8,None,1 V 8,None,1
- Lantronix Netv	work Settings	Flow Control:	🔽 HW 🔲 SW	ΗW	📝 HW 📄 SW 🛛 HW
IP Address:		IP Port#:	1234 🚔	1234	4444 🚔 4444
Net Mask: 2	55 0 25		Serial Port Settings		
Gateway:		COM Port:	WAND		CNC
	C Enable DHCP	BAUD:	9600 🔻		38400 -
		Format:	8,None,1 🔹		8,None,1 💌
AxHS2200: Attemp AxHS2200: Reque Timeout occured!	oting to connect to 10.10.1.39 A esting setting #: 1	Flow Control:	🗖 HW 🔲 SW		HW SW Xon Wait
			ial Ports Settings —		
		COM Port:	CNC	DNC	WAND
		BAUD:	9600 🔻	9600	▼ 9600 ▼
		Format:	8,None,1 💌	8,None,1	▼ 8,None,1 ▼
•	▼ 4	Flow Control:	🔲 HW 🔲 SW	HW [SW HW SW
Current File:		Sta	tus: Timeout occu	ured!	



Click Config > Read > All

The status window will refresh and the device will respond in the list.

Note: This will fail to connect to the AxHS2200 if other application is currently connected to this machine's 4444 port, such as AxDNC. You must disconnect or turn off the other application in order to configure the board.

税 Communications Setup Utility	5 1 m	×
Exit File Config		
Lantronix Configuration	- Serial Configuration	
Lantronix Network Identification	- Lantronix Serial Port Settings	
	COM Port: PACE Default	DNC - Host Default
Host Name: YOUR_CHOICE	BAUD: 9600 - 9600 11	15200 - 230000
MAC Address: 00-20-4A-9F-C8-76	Format: 8,None,1 - 8,None,1 8,	None,1 - 8,None,1
Lastropix Network Settings	Flow Control: 📝 HW 📄 SW 🛛 HW 📝	HW 🔳 SW HW
P Address: 10 - 10 1 1 39 -	IP Port#: 1234 🚔 1234	4444 🚔 4444
Net Mask: 255 255 255 255	AxHS2200 Serial Port Settings	
	COM Port: WAND	CNC
V Enable DHCP	BAUD: 9600 -	500 🔻
	Format: 8,None,1 🔻 7,	Even,1 💌
Lantronix: Sending request for record #: 3	Flow Control: 📃 HW 🔄 SW 🛛 💟	HW SW Xon Wait
Lantronix configuration received AxHS2200: Requesting setting #: 1	Ax9150 Serial Ports Settings (Unavailable)	
AxHS2200: Requesting setting #: 2 AxHS2200: Requesting setting #: 3	COM Port: CNC DNC	WAND
AxHS2200 configuration received ≡ Ax9150: Bequesting setting #: 1	BAUD: 9600 - 9600	▼ 9600 ▼
Ax9150 not available Configuration received	Format: 8,None,1	▼ 8,None,1 ▼
	Flow Control: 🔲 HW 📄 SW 👘 HW 📄 S	W 🖪 HW 🗖 SW
Current File:	Status: Configuration received	

The IP address is now displayed for the device to be setup. Note the IP address for setup in AxDNC.

AxHS2200 Seria	al Port Settings —	
COM Port:	WAND	CNC
BAUD:) 600 ▼	9600 -
Format:	},None,1 ▼	7,Even,1 -
Flow Control:	HW 🔲 SW	W HW SW Wai

Configure the settings shown above to set the serial port settings for this Mx1053.

Use "Config-> Write All" to save any changes to the Mx1053.

Click exit when finished to disconnect to the board.

Installing AxDNC

Locate the AxDNC installer file

Core Local Disk	(C:) ► Users ► Downloads ►		128	- 4 ∳ Se
File Edit View Tools Help				
Organize 👻 📷 Open Share with	▼ Burn New folder			
☆ Favorites	Name	Date modified	Туре	Size
Recently Changed	AxDNC_Setup_1.1.0.6.exe	12/10/2010 9:47 AM	Application	6,948 KB
Public .	📜 i¥ 1 22 zin	12/10/2010 Q-02 AM	WinRAR 71D archive	172 177 KR

Double Click on the file, AxDNC_Setup_x.x.x.exe

If prompted by your security



Click "Run"



Select the preferred language and click OK

The Welcome setup screen will appear



Click Next.

The software license agreement window will appear



Please review the End-User License Agreement content. To continue, click "I Agree" button. You will be presented with the file location window.

AxDNC Setup	
Choose Install Location Choose the folder in which to install AxDNC.	
Setup will install AxDNC in the following folder. To install in a different folder, select another folder. Click Install to start the installation.	, dick Browse and
Destination Folder C:\Program Files (x86)\AxDNC	Browse
Space required: 17.7MB Space available: 30.1GB Astrix Networks Inc. Installer	
< Back Install	Cancel

The Destination Folder contains the Default file location. This can be changed by clicking on the Browse button and selecting a new file location/ creating a new folder, if desired and clicking OK



Once you have selected the location of chosen the default location, click "Install"

A	AxDNC Setup	- - X
ŀ	Installing Please wait while AxDNC is being installed.	
	Registering: C:\Program Files (x86)\AxDNC\GenLib.dll	
	Extract: NetDNCMsg.dll 100%	
	Extract: AxDNCConfig.ini 100%	
	Extract: Protocols.ini 100%	
	Extract: Messages.INI 100%	
	Extract: AXDNC.dat 100%	
	Extract: Ax-DNC.exe 100%	
	Extract: AxUpdate.exe 100%	
	Extract: AxDNCUpdate.ris 100%	=
	Registering: C:\Program Files (x86)\AxDNC\DNCServer.dll	
	Registering: C:\Program Files (x86)\AxDNC\GenLib.dll	+
	L	
Ast	trix Networks Inc. Installer ———————————————————————————————————	
	< Back Next >	Cancel

You are presented with an installation progress window which displays the files being installed. Once complete you will be presented with the following window:



Click "Finish" to close the installer and run the AxDNC application for the first time. Uncheck mark the "Run AxDNC" radio button if you do not want to run AxDNC at this time.

Running AxDNC for the first time

To run AxDNC click on the AxDNC icon created on your desktop



Or, click the Start button and select AxDNC from the programs list.



The AxDNC application will start and the AxDNC Machine window will appear.

Ľ	Ax-DNC V1.1.0.6 [Unregiste	red Version	-Days used are 1/30)] (1 Port License)	1	
	File Edit Event Lo	gs Mac	hine Conne	ction Operation	Help		
		Mdd	Delete				
	CNC Machine Name	State	Operation	Port Settings	File Send Progress	File Receive Progress	Machine Type
	Sample1	Off Line	None	COM1, 9600, N, 8, 1	0%	0 Bytes Received	Mill
	<u> </u>						J
							11.

Menu Bar

File Edit Event Logs Machine Connection Operation Help

File:



Edit:



Event Logs:

Ax-DNC	V1.1.0.6 [l	Unregiste	red Version	n-Day
<u>F</u> ile <u>E</u> dit	Event Lo	gs <u>M</u> ac	hine Conne	ection
	Tra	ce Logs		
EXIT	Data Logs			
	Erro			
CNC Mach	ine Name	State	Operation	

Machine Connection:



Operation:



Help:



Navigation Bar



Machine List window

CNC Machine Name	State	Operation	Port Settings	File Send Progress	File Receive Progress	Machine Type
Sample1	Off Line	None	COM1, 9600, N, 8, 1	0%	0 Bytes Received	Mill

The default machine (Sample 1) is listed and is shown as "offline". When machines are setup on AxDNC you will see:

- 1. CNC Machine Name
- 2. Current state (On Line or Off Line)
- 3. Operation
- 4. Port Settings
- 5. File Send Progress
- 6. File Receive Progress
- 7. Machine Type

Adding a Machine

Before you can add a machine to which you can connect you must first install the machine. AxDNC will support direct serial connected machines. However, the purpose of this Quick Start Manual is to connect AxDNC to the Mx1053 universal network interface via TCP/IP. Once you have installed the Mx1053 UNI and confirmed that the interface is set up and visible on the network, you can add the Mx1053 equipped machine tool to AxDNC. NOTE: If you are running the unregistered evaluation copy of AxDNC, a sample machine already exists. The sample cannot be deleted in this mode. Therefore you will modify the existing "Sample" machine record. If you have a multiport license then you can create a new machine. For this quick start manual you will modify the "Sample" Click the "Machine Connection" menu item and then click "Edit"



The machine Properties window will appear.

Machine Properties for Sample1
Serial Port Files Send Receive Delay Timers TCP/IP Options Commands Messages
Serial port 3 Machine protocols No Protocol Image: Constraint of the protocol series of th
Connection parameters Baud rate 9600 Data bits 8 Bits Parity None Stop bits 1 Stop Bit Software control Buffer Size 1024 Special Protocol: No Protocol Send Type Line XON / XOFF DC1/DC3 V Wait for XON
Serial data flow control
Apply Cancel OK

A	Machine Properties for Sample1
1	Serial Port Files Send Receive Delay Timers TCP/IP Options Commands Messages
	TCP / IP Address 0.0.0 1 Port 4444 2 5 Use TCP 1 6 Use TCP Poll / Keep Alive Poll Interval 3 Reconnect Interval 10 (secs) 4
	Apply <u>Cancel</u>

Select the TCP/IP tab displayed across the top of the Properties Window.

There are 6 parameters which are available on the TCP/IP tab view.

- 1. TCP/IP address
- 2. Port assignment (Default port is 4444)
- 3. Poll interval in milliseconds (1/1000th of a second- Default is 2000 ms which is 2 seconds)
- 4. Reconnect Interval in seconds (Default 10 seconds)
- 5. Use TCP
- 6. Use TCP Poll/ Keep Alive

Machine Properties for Sample1
Serial Port Files Send Receive Delay Timers TCP/IP Options Commands Messages
TCP/IP Information TCP / IP Address Port 90rt 4444 IV Use TCP Use TCP Poll / Keep Alive Poil Interval 2000 (ms) Reconnect Interval 10 (secs)
Apply Cancel OK

The 6 parameters can now be populated on the TCP/IP tab view.

- 1. TCP/IP address the address reported in the UMI deployment utility which in this case was 10.10.1.39
- 2. Port assignment (Default port is 4444)
- 3. Poll interval in milliseconds (1/1000th of a second- Default is 2000 ms which is 2 seconds)
- 4. Reconnect Interval in seconds (Default 10 seconds)
- 5. Use TCP check marked
- 6. Use TCP Poll/ Keep Alive- unchecked unless network timeouts are a problem

Before the machine setup is complete the following tabs need to be populated.

Machine Properties for Sample1
Serial Port Elles Send Receive Delay Timers TCP/IP Options Commands Messages
Directories
(Secondary send) Folders for files to be sent to the machine
(Primary receive) Folder for received files from the machine
(Secondary receive) Folder for received files from the machine
Default File Extension NC (IE. NC CNC NWD- leave blank for no EXT)

If there is only one send folder used then set both the primary and secondary send folder to the same folder.

If there is only one receive folder used then set both the primary and secondary receive folder to the same folder.

Set the default file extension used for NC part program files.

Machine Properties for Sample1
Serial Port Elles Send Receive Delay Timers TCP/IP Options Commands Messages Set EOB on send CR/LF CR/LF CF CR CR/LF CR CR/CR CRCR/LF None Skip lines that start with Skip % Transmit before sending file: Skip lines that contain Transmit after sending file: ASCII Chart Translations

Set the correct delimiters used in the existing NC part program files.

Machine Properties for Sample1	×
Serial Port Files Send Receive Delay 1	Timers TCP/IP Options Commands Messages
Remote Commands Start End File Send (SEND) File Reveive (RECV- Reset (RESET)) Autoname Vise Auto Naming	UMI Send Commands Start End Enable (Before Send) (MXCLEAR)
	Apply Cancel OK

The remote call and remote request commands used on the target control must be duplicated in the fields indicated above on the Commands tab.

Remote Com	mands	
	Start	End
File Send	(SEND-	
File Receive	(RECV-)
Reset	(RESET)
Autoname	🔽 Use Au	uto Naming

Proper syntax is required for the DNC software to process a file punched from the control. Click the OK button on the Machine Properties window.

Ax-DNC V1.1.0.6 [Unregistere	d Version-D)ays used are 1/3	0] (1 Port License)		
<u>File Edit</u> Event Lo	gs <u>M</u> achi	ne Connect	ion <u>O</u> peration	<u>H</u> elp		
	hdd-				тор 🛃	
CNC Machine Name	State	Operation	Port Settings	File Send Progress	File Receive Progress	Machine Type
Sample1	In Remote	Idle	10.10.1.39, 4444	3%	0 Bytes Received	Mill
		\mathbf{i}				
		2				
					1	
<u></u>)
						//.

You will be returned to the AxDNC main window. Click on the icon indicated by #1. This is the "connect to machine" icon. It will grey out and the "disconnect machine" icon will become visible. The machine will now change it's state from "off line" to "In Remote". The machine is now online. To rename the listed machine from "Sample" to a name more relevant, click on the "Disconnect machine" icon to take it offline.

Then click on Machine Connection > Rename



Rename the machine to whatever you want. Do not use spaces or special characters such as underlines.

Click OK

Current machine name	
Sample1	
New machine name	
Fanuc15T	
Machine Type (Mill,Lathe,Etc.)	
Mill	

Ax-DNC \	V1.1.0.6 [Un	registered	d Version-D	ays used are 1/3	0] (1 Port License)		
<u>F</u> ile <u>E</u> dit	Event Logs	<u>M</u> achir	ne Connecti	on <u>O</u> peration	<u>H</u> elp		
EXIT		Add					
CNC Machi	ine Name	State	Operation	Port Settings	File Send Progress	File Receive Progress	Machine Type
FANUC1	15T In	Remote	Idle	10.10.1.39, 4444	0%	0 Bytes Received	MILL
]

The new name is now displayed.

You have now setup a machine using a Mx1053 UNI connecting to AxDNC software. Details of settings can be found in the full user manuals for the respective software or devices.

This completes the installation and basic configuration of AxDNC.

Troubleshooting

- Q. Why can't I find the Ax2200HS on the network when I do a Search using Broadcast?
- A. Use IP Scan to scan for a particular IP Range and identify the Lantronix device on the Ax2200HS.
 - 1. Open AxHDU.

Search MAC Address Hostname IP Address Subnet IP Port 00-20-4A-96-4A-BC 9150HSW2 10.10.1.240 (DHCP) 4444 00-20-4A-9F-42-FF JJR3 10.10.1.251 255.255.0 4444 Reset 00-20-4A-B3-68-56 10.10.1.248 255.255.0 4444 Clear Image: Clea	1		Device List					
Stearch 00-20-4A-96-4A-BC 9150HSW2 10.10.1.240 (DHCP) 4444 Setup 00-20-4A-9F-42-FF JJR3 10.10.1.251 255.255.255.0 4444 Reset 00-20-4A-B3-68-56 10.10.1.248 255.255.255.0 4444 Clear Image: Clear	Control	MAC Address	Hostname	IP Address	Subnet	IP Port #		
Setup 00-20-4A-9F-42-FF JJR3 10.10.1.251 255.255.0 4444 Reset 00-20-4A-B3-68-56 10.10.1.248 255.255.0 4444 Reset Clear 10.10.1.248 255.255.0 4444 Search Options Image: Clear Image: Clear <td>Search</td> <td>00-20-4A-96-4A-BC</td> <td>9150HSW2</td> <td>10.10.1.240</td> <td>(DHCP)</td> <td>4444</td>	Search	00-20-4A-96-4A-BC	9150HSW2	10.10.1.240	(DHCP)	4444		
Setup 00-20-4A-83-68-56 10.10.1.248 255.255.0 4444 Reset Clear Image: Clear	Cabur	00-20-4A-9F-42-FF	JJR3	10.10.1.251	255.255.255.0	4444		
Reset Clear Search Options Time out: 5 Jse Broadcasts: Clear In the out: 5 Jse IP Scan: Image: Clear Image: Clear Image	Setup	00-20-4A-B3-68-56		10.10.1.248	255.255.255.0	4444		
Clear Search Options Time out: 5 Jse Broadcasts: Clear In the out: 5 Image: Starting Address: 1 Image: Starting Address: 1 .	Beut							
Clear Search Options Time out: 5 ÷ Jse Broadcasts: C Jse IP Scan: • 10 ÷ 1 ÷ 10 ÷ 1 ÷ 3	Heset							
Search Options Time out: 5 ÷ Use Broadcasts: O Starting Address: 10 ÷	Char							
Search Options Time out: 5 ÷ Use Broadcasts: O Jse IP Scan:	Liear							
Search Uptions Time out: 5 ÷ Use Broadcasts: O Jse IP Scan: • 10 ÷ <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
IP Address Scan Range Use Broadcasts: Jse IP Scan:	Search Uptions	Re IP Scann	ner Settings		×			
Use Broadcasts: C Jse IP Scan: C Jse Jse Jse Jse Jse Jse Jse Jse Jse Jse	Time out 5			-				
Use Broadcasts: C Starting Address: Use IP Scan: It I I I I I I I I I I I I I I I I I I			ddress Sca	n Range				
Use IP Scan: • 10 ÷ 10 ÷ 1 ÷ 58 ÷ ← 3	Use Broadcasts: C	Starting A/	ddress:					
		10 -		1 - 58 -	3			
Ending Address	Use IP Scan: 🙃				·			
IP Scan Settings	Use IP Scan: 📀	Ending Ad	1					
	Use IP Scan: (* IP Scan Settings	Ending Ad	ldress:					
	Use IP Scan: IP Scan Settings	Ending Ac	Idress:	ि 🗄 िह्य 🗄	← 4			
10.10.1.58 Set Exit	Use IP Scan: IP Scan Settings Network Adaptor:	Ending Ac		न् नि	! ← [4]			
	Use IP Scan: IP Scan Settings Network Adaptor: 10.10.1.58	Ending Ac	Idress: 10 🛨 🗖 Get	Ĩ <u>⇒</u> [65] <u>⇒</u> Exit				

Diagram H.1 – AxHDU Using IP Scan

- Default search configuration is to Use Broadcast. Select Use IP Scan (see Item 1, Diagram H.1, above). The IP Scan Setting can now be selected. Click on IP Scan Setting (see Item 2, Diagram H.1, above).
- 3. The IP range can then be set to a particular range to search for a Lantronix device (see Item 3 and 4, Diagram H.1, above). For example, if the local PC IP is set to 10.10.1.5, a Lantronix device could have been provided by the DHCP server for a range between 10.10.1.1 up to 10.10.1.255. The search can be expanded by modifying the start and end IP addresses.
- 4. Click on **Set** (see Item 5 Diagram H.1 above) to accept the settings and click on Exit (see Item 6 Diagram K.1 above) to return to the main AxHDU window.
- 5. At this point, click on **Search** to initiate a poll of the Lantronix devices on the network based on the IP address provided in IP Scan Settings. Once the search has been completed, a list of the Lantronix devices will be shown under the Device List. Choose the appropriate device by referring back to either the MAC address of the device or the unique Hostname given to the device.



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