

# How do I assign an IP Address to an XPort or other CoBOS product?

## How can I assign an IP address to an XPort-01, XPort-03, XPort-04 or XPort-05 or other CoBos Product?

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XPort (or other CoBOS product) will accept both dynamic and static IP addresses. DHCP and Auto IP are enabled by default.

*“There are three ways to assign static IP Address. They are:”*

1. DeviceInstaller – the easiest method
2. ARP - recommended for those familiar with Address Resolution Protocol
3. Through a serial connection – this is the fastest method for those using the evaluation board and familiar with menu and hex configurations.

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*1. Using DeviceInstaller:”*

- Start the DeviceInstaller program
- Click on the **Assign IP** Icon
- Enter the hardware address of the XPort™ IE: 00-20-4A-xx-xx-xx in the hardware field and click **Next**
- Select **Assign a specific IP address** and click **Next**
- Enter the IP address, Subnet mask and Default gateway (the gateway parameter is optional) you want to assign the XPort™, then click **Next**
- Click **Assign**

*“2. Using ARP:”*

Hook up the Lantronix device with a crossover network cable between your PC and the Lantronix device. It is also recommended that you set your ethernet interface to obtain automatic so it gives itself an auto IP address in the 169.254.x.x range then use this same IP address scheme to use as the temporary IP address to give the Lantronix device until you have entered a telnet connection to the Lantronix then assign the IP address for the network the Lantronix device is to be connected to.

From a command prompt.

1. Arp -s (ip address) (MAC address with dashes) -N (ip address of your PC NIC), Enter

i.e. Arp -s xxx.xxx.xxx.xxx 00-20-4a-xx-xx-xx -N yyy.yyy.yyy.yyy (alternate MAC example 00-80-A3 or 00:80:A3)

xxx.= IP to assign (if using auto IP use a 169.254-x.x address)

xx-xx-xx = MAC Address of the Lantronix device (w/ARP you must use dashes when entering the MAC)

yyy. = IP address on the local area connection (Your NIC card)

NOTE: Use the -N option to specify the NIC you want to use on PCs with multiple NICs, e.g. a Laptop with both WiFi and Wired Ethernet NICs. It is recommended to DISABLE (not just turn off) your wireless interface.

If you get an error when you enter the above command substitute this command:

i.e. netsh interface IPV4 add neighbors "local area connection" xxx.xxx.xxx.xxx yyy.yyy.yyy.yyy

2. Telnet xxx.xxx.xxx.xxx 1 (where xxx is the IP from 1.), enter

i.e. Telnet xxx.xxx.xxx.xxx 1

This will time out almost immediately (within a second or two)

3. Telnet xxx.xxx.xxx.xxx 9999 (where xxx is the IP from 1.), enter

i.e Telnet 192.168.15.15 9999

You should see a banner that looks something like this (appearance will vary slightly by product):

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**“MAC address 00204A9B007D  
Software version V6.x.x.x (Date code)  
Press Enter for Setup Mode”**

*Press Enter within 3 seconds to go into Setup Mode.”*

4. Configure the unit as normal.

Summary of Command Syntax are the 3 following steps.

- 1) Arp -s<IP to assign><MAC xx-xx-xx-xx-xx-xx> -N <IP on NIC>
- 2) telnet <IP assigning> 1
- 3) telnet <IP assigning> 9999

Select 0 for server configuration.

- Manually enter the IP Address. This permanently assigns the IP address,
- Manually enter the gateway address (optional)
- Manually enter the host bits for the subnet mask (refer to XPort™ User Manual, section 4, Table 4.1 – Standard IP network Netmasks)
- Select 9 to save and exit

For further assistance click here for the Online Tutorial.

*“3. Using a serial connection from an evaluation board:”*

- A straight through modem cable is required to connect the DB9 serial port of the evaluation board from a comm port on a PC
  - Open a terminal emulation session with 9600 baud, 8-Bit character size, 1 stop bit, no parity (9600, 8N1) and no flow control.
  - Reboot the XPort power and hold the x key (lower case) down on your keyboard.
  - When you see the prompt "Press Enter to go into Setup Mode", hit the return key to access the configuration choices.
  - Select 0 for server configuration.
  - Manually enter the IP Address. This permanently assigns the IP address,
  - Manually enter the gateway address (optional)
  - Manually enter the host bits for the subnet mask (refer to XPort™ User Manual, section 4, Table 4.1 – Standard IP network Netmasks)
  - Select 9 to save and exit
- (More detailed information can be found in the XPort User Manual provided on your CD)

To view a tutorial on assigning an IP address to a product similar to the XPort, [Click Here](#)  
The Tutorial is for the UDS product which uses the same method as the XPort for assigning an IP address