



WiPort™ Development Kit Quick Start Guide

Part Number 900-340
Revision A 3/04

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Introduction

Thank you for your decision to purchase the WiPort™ Developer Kit from Lantronix. Use this Quick Start as a handy reference for the initial setup of the WiPort. It takes you step by step through hardware setup and the initial configuration.

Developer Kit Contents

Part #	Component Description
WP2001000-01	WiPort option with 2Mbyte Flash
080-310	WiPort Evaluation Board
520-072	3.3V wall-mount Power Supply AC/DC, 1A
500-xxx	RS-232, DB9F/F, 10ft, null modem cable
500-107	CAT5e UTP RJ45M/M Ethernet cable
CD-WPT-01	CD with software utilities and documentation (in PDF format)

What You Need to Know

Hardware Address

You need to know the unit's hardware address (also known as MAC address). It is on the product label, in the format: 00-20-4a-XX-XX-XX, where the XXs are unique numbers assigned to the product.

Hardware Address: 00-20-4a-_____ - _____ - _____

IP Address

Your WiPort must have a unique IP address on your network. By default, the device is DHCP-enabled and automatically assigned an IP address (on DHCP-enabled networks). If assigning a static IP address, make note of it. The systems administrator generally provides the IP address, subnet mask, and gateway. The IP address must be within a valid range, unique to your network, and in the same subnet as your PC.

IP Address: _____ . _____ . _____ . _____

Subnet Mask: _____

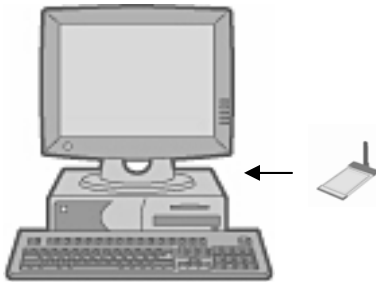
Gateway: _____

If the network is not DHCP-enabled or a static IP address is preferred, there are several options for assigning an IP to your unit. We recommend that you connect the WiPort to the network and assign the IP address using DeviceInstaller software, which is on the product CD. For information on other methods, see the *WiPort User Guide*.

Connecting the WiPort – Wireless Method

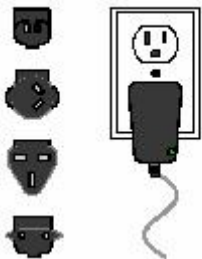
To get started, establish a wireless connection between a desktop or laptop with a wireless card to the WiPort Evaluation Board. This permits the configuration of the WiPort to work on your network.

1. Verify the wireless card is inserted correctly in the PC or laptop. Ensure the wireless card's drivers and utilities are installed. Change and save the client manager to the following settings:

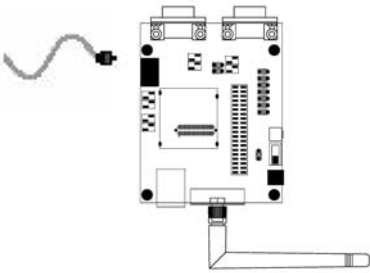


- ◆ Channel 11
- ◆ Disable encryption
- ◆ Disable authentication
- ◆ Ad-Hoc network
- ◆ Network name set to: LTRX_IBSS
- ◆ Open association (if option is available)
- ◆ DHCP-enabled

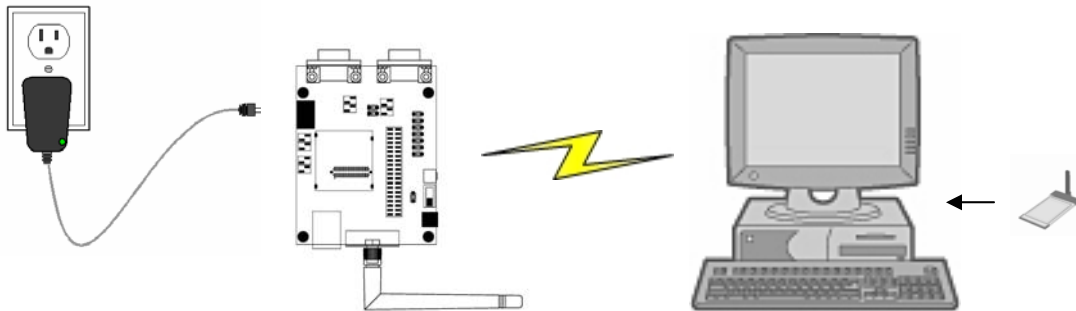
2. Select the appropriate power plug adaptor for your geographical location. Insert it into the slot on the Universal Power Supply; then plug the power supply into an outlet.



3. Connect the Universal Power Supply to the WiPort Evaluation Board.



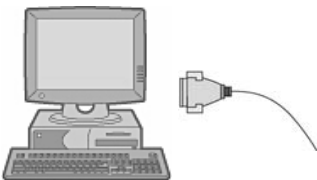
4. The WiPort is ready for configuration using DeviceInstaller. The final setup should look like this:



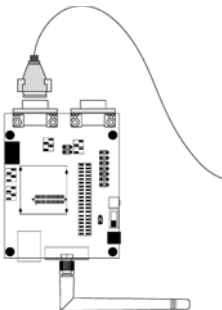
Connecting the WiPort – Serial Method

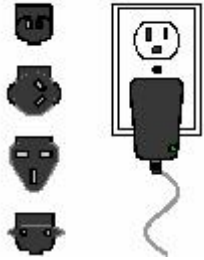
In the event that your laptop or desktop is not equipped with a wireless card, begin the initial configuration of the WiPort using the serial method. After configuring the WiPort for wireless network access, disconnect the desktop's serial connection to the device.

1. Connect one end of the supplied DB9F/F serial cable to the serial port on the laptop or desktop.

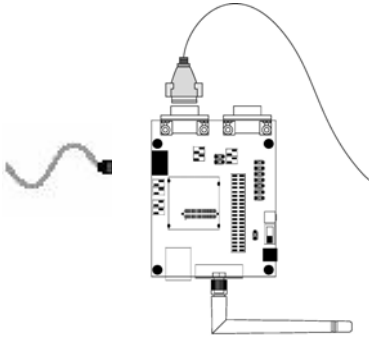


2. Connect the other end of the supplied DB9F/F serial cable to Port 0 on the WiPort.



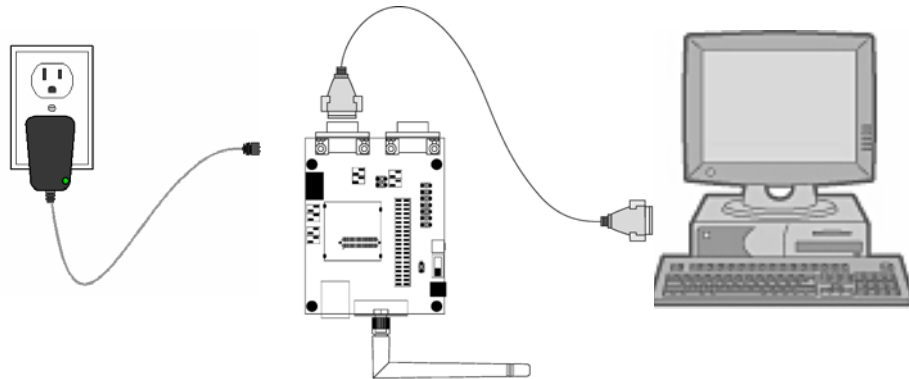


3. Select the appropriate power plug adaptor for your geographical location. Insert it into the slot on the Universal Power Supply; then plug the power supply into an outlet.



4. Connect the Universal Power Supply to the WiPort Evaluation Board.

5. The WiPort is ready for configuration using Serial Mode. Refer to the [WiPort User Guide](#) for information on configuring the WiPort using this method. The final setup should look like this:



Install DeviceInstaller

Use DeviceInstaller to configure the IP address and other network parameters when a wireless connection is established between the WiPort and a laptop or desktop equipped with a wireless card.

1. Open DeviceInstaller on the CD-ROM.
If the CD does not launch automatically:
 - a. Click the **Start** button on the Task Bar and select **Run**.
 - b. Enter your CD drive letter, colon, backslash, **Launch.exe** (e.g., D:\Launch.exe).

2. Respond to the installation wizard prompts.


Note: For more information about DeviceInstaller, see the DeviceInstaller [User Guide](#) on the product CD.

Assign IP

The unit's IP address is normally set for DHCP at the factory. The hardware address is on the product label. The unit is DHCP enabled as the default. Change the IP address if you do not want the network to automatically assign an IP address to the WiPort.

1. Click **Start**→**Programs** → **Lantronix**→**DeviceInstaller**→**DeviceInstaller**. If your PC has more than one network adapter, a message displays. Select an adapter and click **OK**.

Note: If the unit already has an IP address (e.g., DHCP has assigned an IP address), click the **Search** icon and select the unit from the list of Lantronix device servers on the local network.

2. Click the **Assign IP** icon .
3. If prompted, enter the hardware address (on the product label) in the format 00-20-4a-XX-XX-XX, where the XXs are unique numbers assigned to the product. Click **Next**.

Device Identification

Enter the hardware address of the device. This is typically printed on the back panel of the device in the form "12-34-56-78-9A-BC".

4. Select **Assign a specific IP address** and click **Next**.

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

5. Enter the **IP address**. The **Subnet mask** displays automatically based on the IP address; if desired, you may change it. On a local network, you can leave the **Default gateway** blank (all zeros). Click **Next**.

IP Settings

Please fill in the IP address, subnet, and gateway to assign the device. The subnet will be filled in automatically as you type, but please verify it for accuracy. Incorrect values in any of the below fields can make it impossible for your device to communicate, and can cause network disruption.

IP address:

Subnet mask:

Default gateway:

6. Click the **Assign** pushbutton and wait several seconds until a confirmation message displays. Click **Finish**.
7. Select the WiPort from the main window list and click **Tools→Ping**. The results display in the Status area. Click the **Clear Status** button to clear the window to ping the device again.

IP Address:

Status:

```
Reply from 172.19.238.20:0: bytes=60 time=0ms TTL=64
Reply from 172.19.238.20:0: bytes=60 time=0ms TTL=64
Reply from 172.19.238.20:0: bytes=60 time=0ms TTL=64
Reply from 172.19.238.20:0: bytes=60 time=0ms TTL=64
```

Note: If you do not receive “Reply” messages, ensure the WiPort is visible on the network created by the laptop or desktop PC’s wireless card. Also ensure the IP address assigned is valid for the particular network segment you are working with.

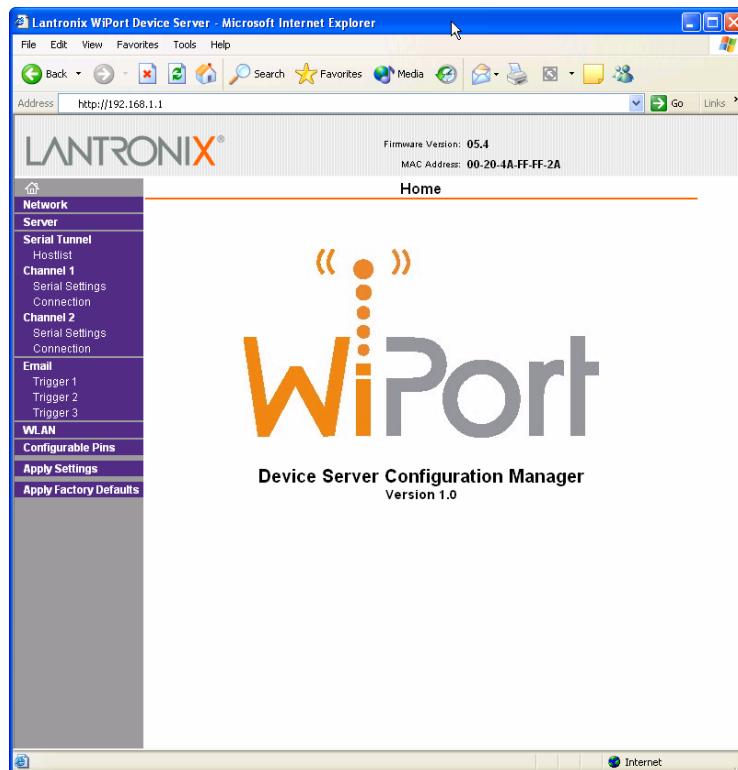
8. Click the **Close** button.

Configure

In this quick start, we briefly describe how to configure the WiPort using Web-Manager, Lantronix's browser-based configuration tool. For detailed information on Web-Manager configuration and on other methods, please see the *WiPort User Guide*.

1. Select the unit and click the **Web** icon . The Lantronix Web-Manager window displays in your browser.

Note: You can also open your JAVA-enabled web browser and enter the IP address of the WiPort to open Web-Manager.



2. Use the Menu buttons on the left to navigate to sub-pages where you can configure the WiPort.
3. When you are finished, click the **Apply Settings** button to save and apply your settings.