WR300N
Portable Wireless-N Repeater

Quick Start Guide

Minimum System Requirements

To configure your WR300N repeater your computer must meet the following minimum requirements.

Any operating system can be used

Web Browser

233MHz processor

Ethernet network adapter

Package Contents

WR300N

Ethernet cable

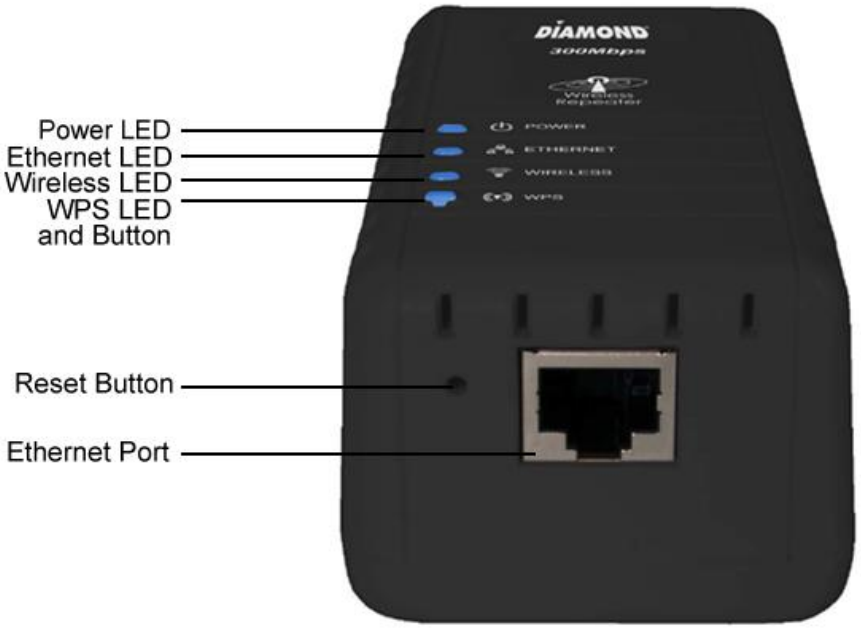
Easy Start Guide

Resource CD (documentation only)

Device Overview

Front Panel

LABEL	STATE	DESCRIPTION
POWER LED	On – Solid Blue Off	Device is powered ON Device is powered OFF
ETHERNET LED	On – Solid Blue On – Blinking Blue Off	Ethernet device is connected Indicates LAN activity No Ethernet device connected
WIRELESS LED	On – Solid Blue On – Blinking Blue Off	Wireless interface is UP Indicates wireless activity Wireless interface is DOWN
WPS LED and BUTTON	On – Solid Blue On – Blinking Blue Off	WPS association is successful WPS authentication on going WPS disabled



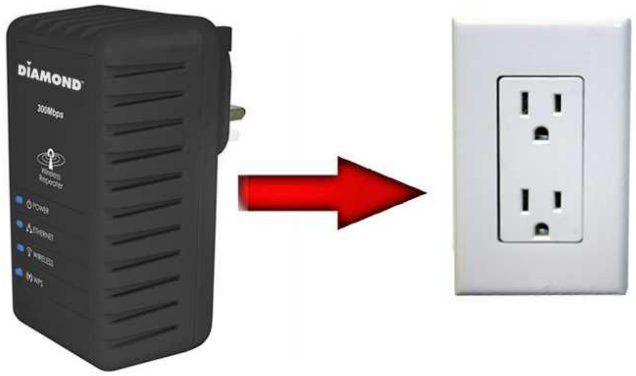
LABEL	DESCRIPTION
RESET	Press the Reset button for 5 seconds to restore the device to default factory settings
ETHERNET PORT	Connect to computers/Ethernet devices

Configuring the Repeater

Setting up the device is easy. Follow the steps below to configure the device for your current wireless router/AP. Ensure to disable the wireless connection on the PC or laptop used for configuring the WR300N. Once the configuration of the repeater is completed be sure to re enable your wireless connection. Please note the WR300N will automatically detect your existing wireless channel encryption and security type of your existing wireless router. Do not change these settings.

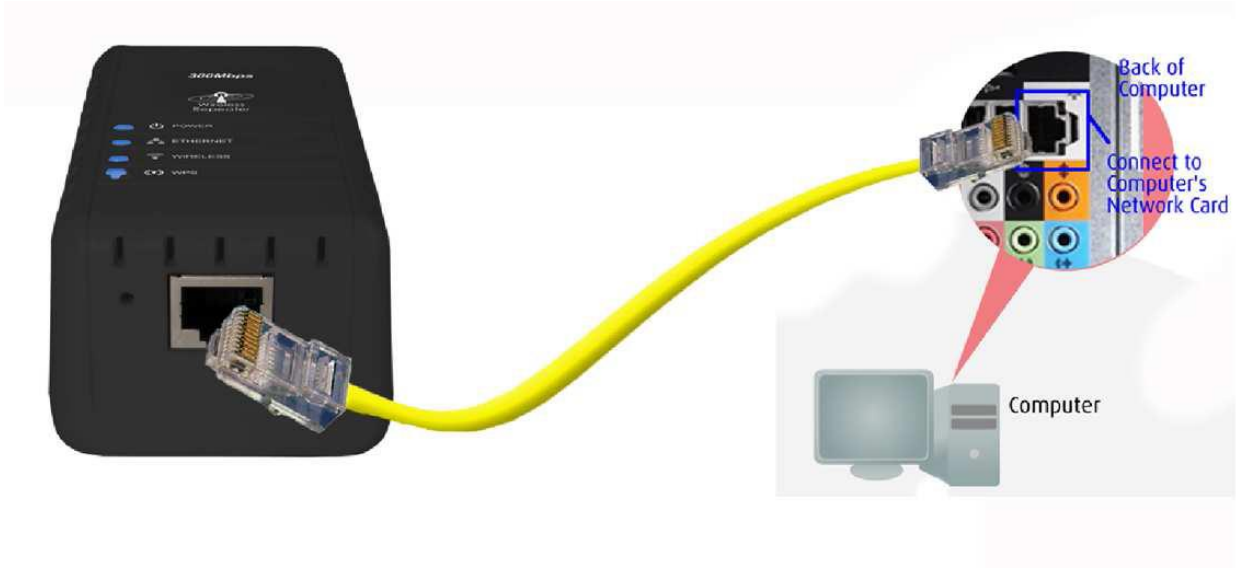
To configure your device via the Web GUI:

1. Connect the WR300N to a power outlet.



NOTE: For best performance do not plug the repeater into a power strip, extension cord or surge suppressor.

2. Connect an Ethernet cable from your PC's Ethernet port to the Ethernet port at the base of the WR300N.



3. Once a connection to the WR300N is established, your PC/laptop will receive an IP address and you can start the configuration using the web graphical user interface.

Note: you may be prompted with a message box stating “Additional Log On Information May be Required” click on the message to open the web browser. If not proceed to the next step below:

4. To access the web GUI, Launch your web browser and input 10.0.10.254 on the address bar.

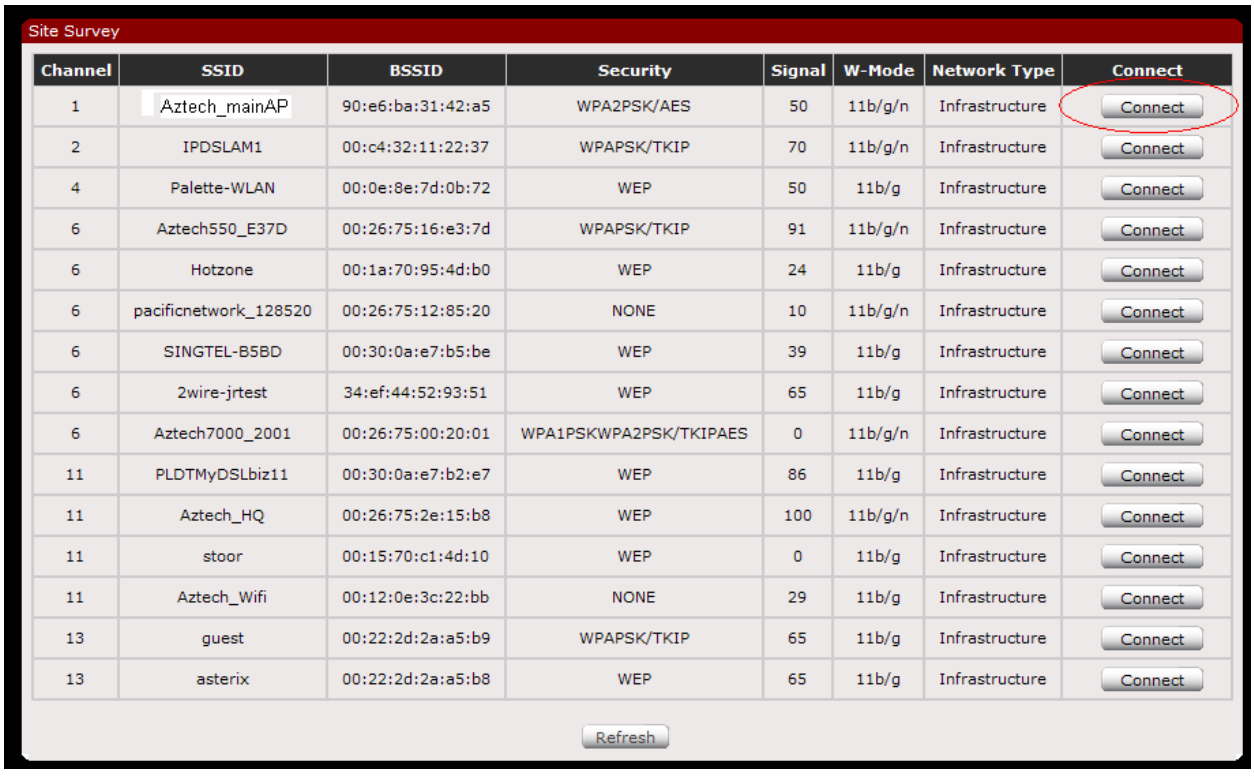
Note: You must enter the address in the browsers address bar and not the search box field.

5. Input **admin** for username and input **admin** for password. Click the OK button.

6. You will now see the following screen below, click on “Auto Setup”

NOTE: If you are connecting to a hidden wireless network, you need to go through the Manual Setup and key-in the information from your existing wireless router/AP manually. Uncheck the broadcast SSID option so that your wireless network will remain hidden.

7. Click the Connect button located on the right side of the wireless network you want to connect to. Click Refresh if you don't see your wireless SSID on the list.



8. Input the current wireless network key/passphrase. Click the Apply button to commit the changes. Note this is the same password you use to connect to your existing wireless router.

9. Close the web browser and power down the WR300N by unplugging the device from the wall plug.

Now, Plug the WR300N back to a power outlet at the best determined location.

Notes: it is always best to place the repeater half way between your dead spot and your original wireless router.

Under ideal conditions the wireless signal from the repeater will extend your signal approximately 90ft from the point you have placed your repeater.

10. You may now use your wireless devices such as laptops, smart phones, etc. with the Repeater. Note there will be no change for the SSID wireless network name. Your existing devices will automatically switch and connect to the device that has the strongest signal. Example if you wireless device is closer to the repeater the connection will be through the repeater. If the device is moved closer to your original wireless router it will automatically switch over.

NOTES:

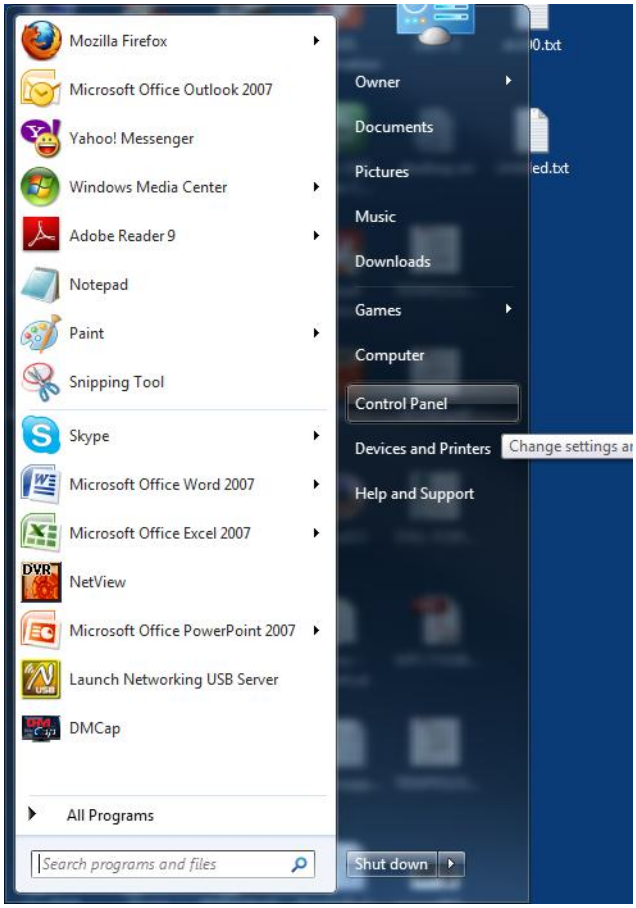
*You may need to reboot your laptop to connect to the WR300N

* To setup the WR300N as a wireless to Ethernet Bridge or stand alone wireless Access Point refer to the on line users guide provided on the CD included in the package

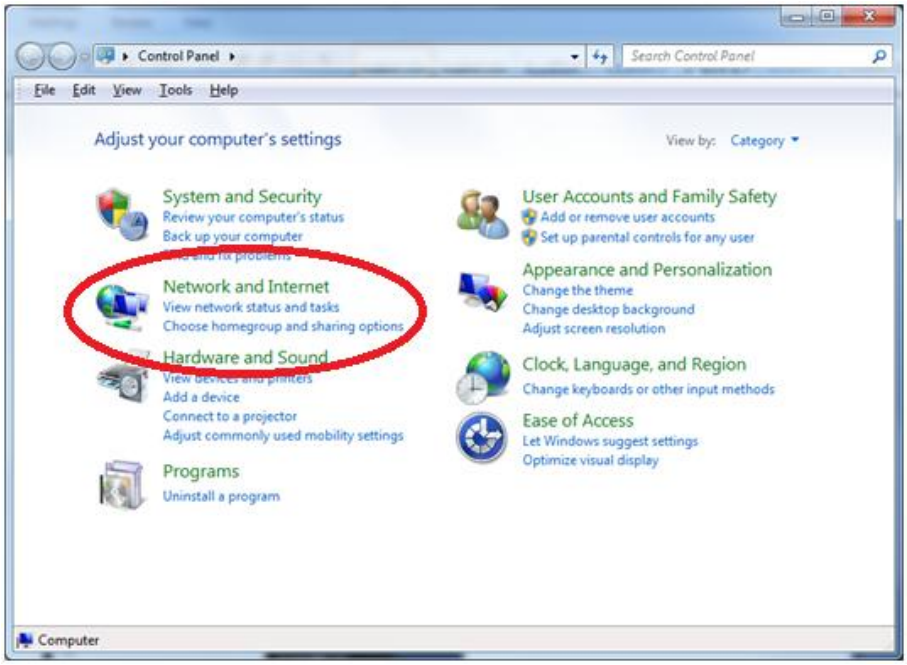
Trouble Shooting:

If you cannot open up the WR300N web configuration page after inputting 10.0.10.254 from your web browser's address check the following:

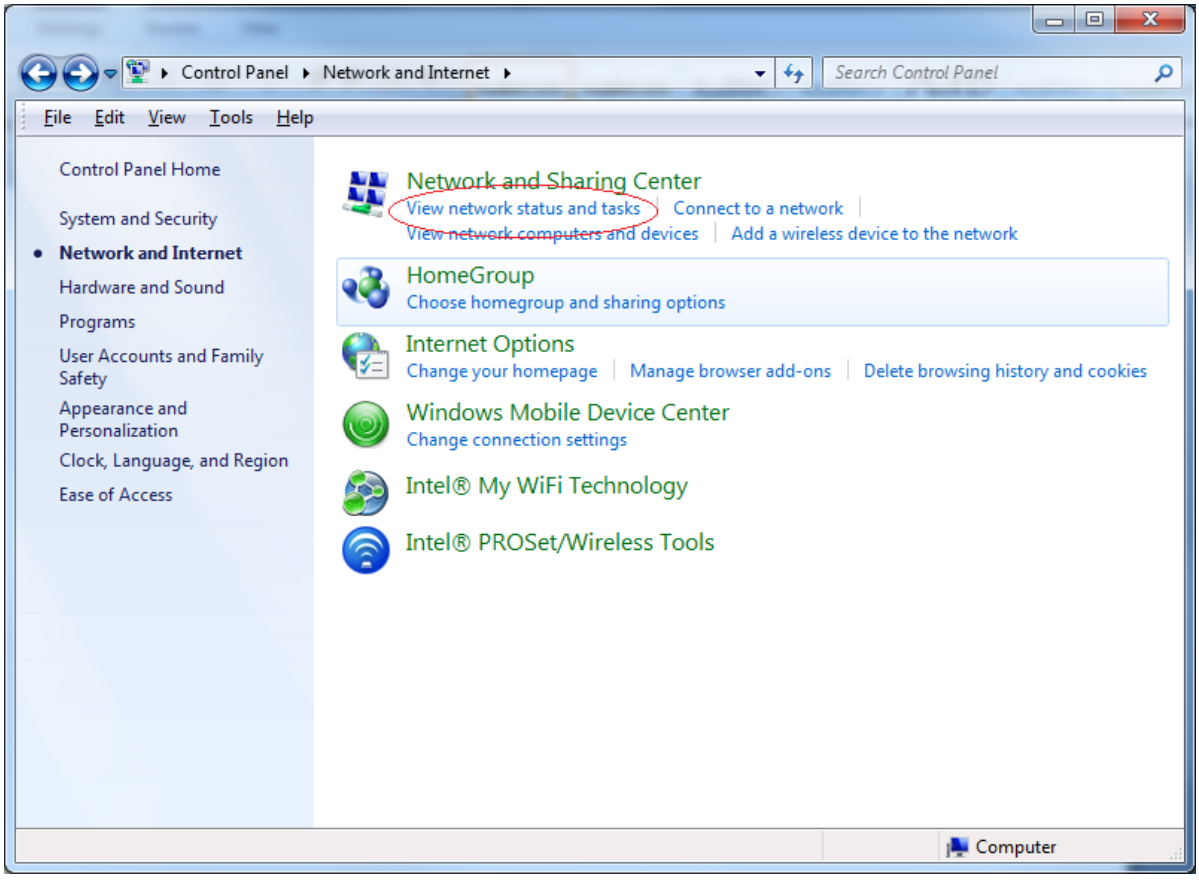
1. Make sure your computer received an IP address in the same range as the repeater. For windows 7 you can check your IP address by clicking on "Start" open the "Control Panel"



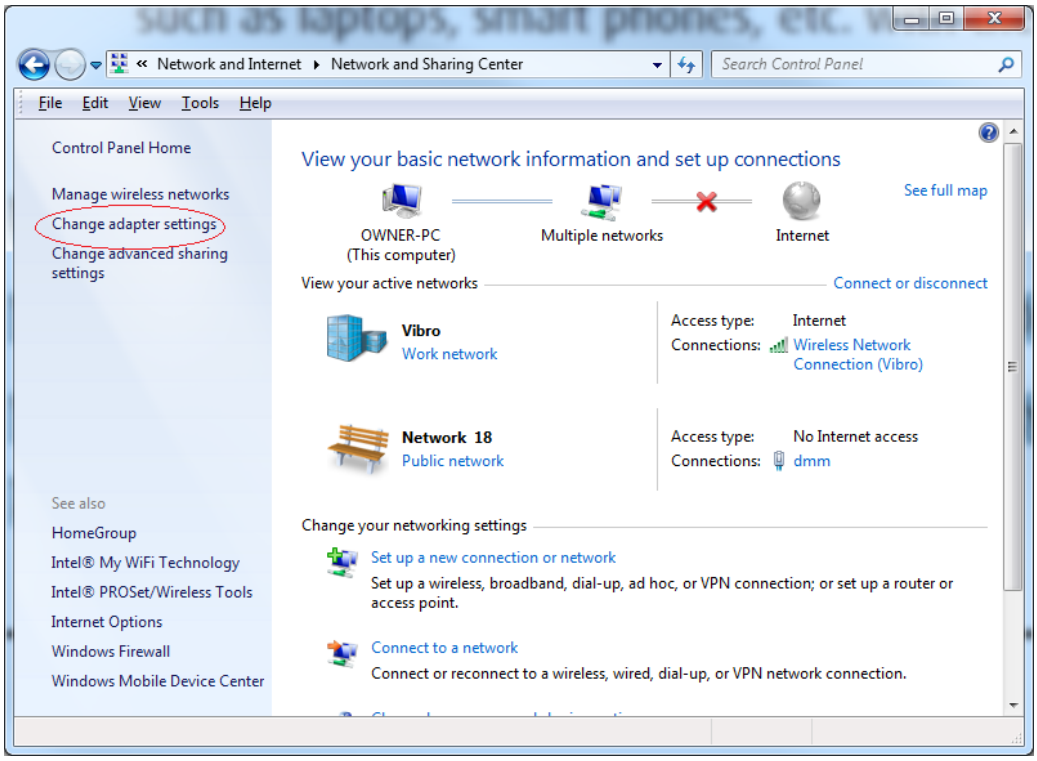
Click on “Network and Internet” as shown below:



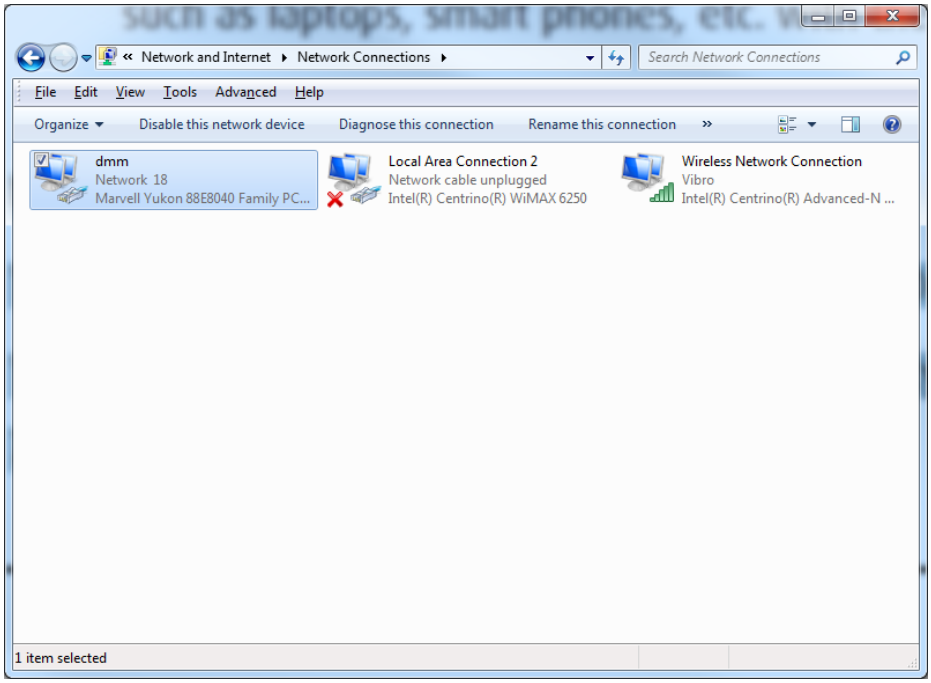
Click on “View network status and tasks” as shown below:



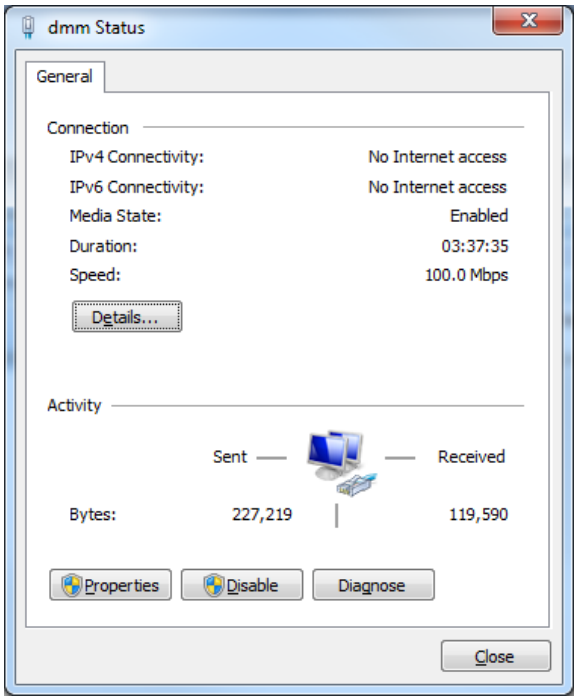
Click on “Change adapter settings” as shown below:



Double click on the Ethernet network name of your wired Ethernet port. See example below:

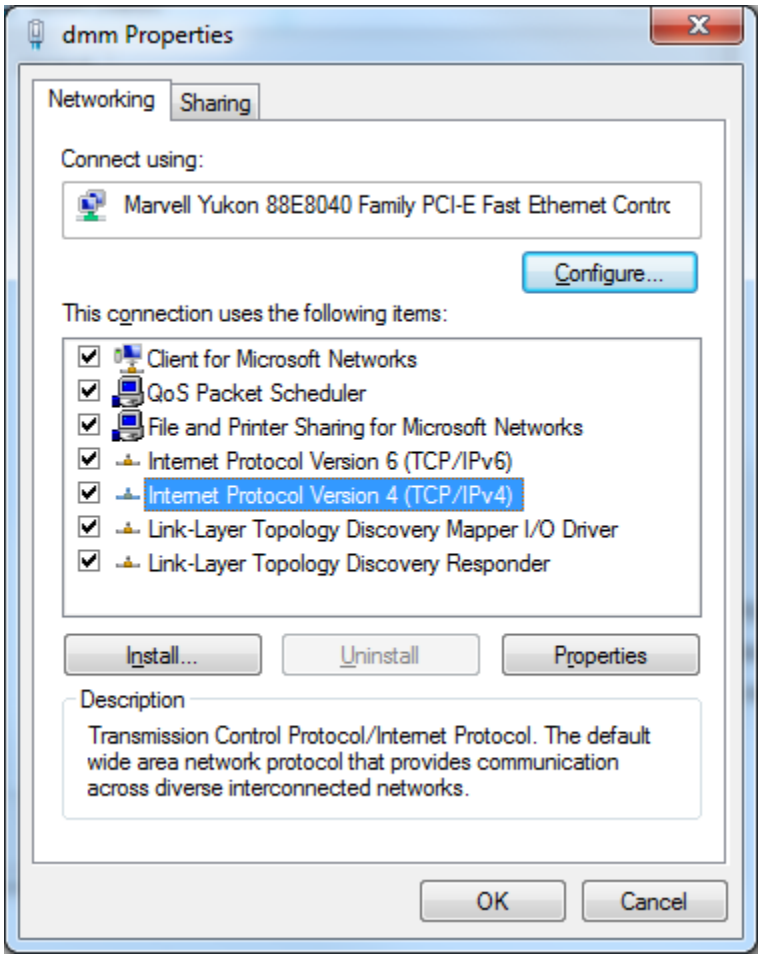


Click on the “Details” tab as shown below:



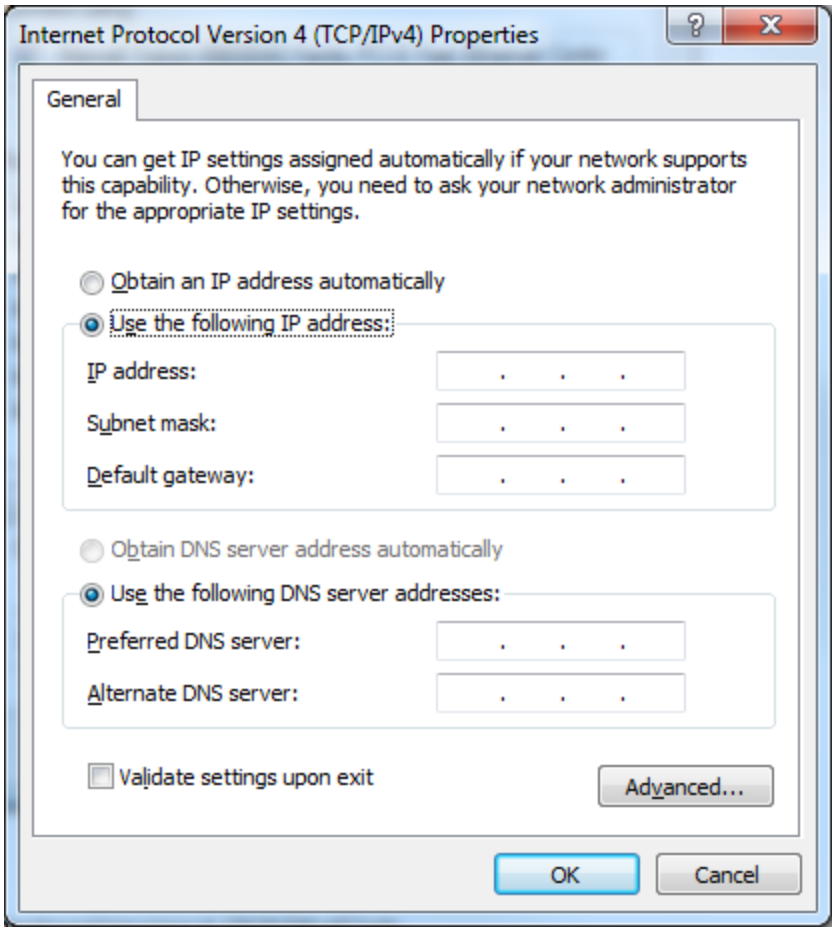
Notice the IPv4 Address is 10.0.10.1, this is correct. The IP address you receice may vary. Example you may get 10.0.10.2, 10.0.10.3, but notice the first three digits are always the same. If you have an IP address that is not in this range you must manually change it in order to configure the repeater.

To change it click on the properties tab on the bottom left hand corner. You will see the image below:



Double click on the “Internet Protocol Version 4 (TCP/IPv4” tab.

You will now see the following:



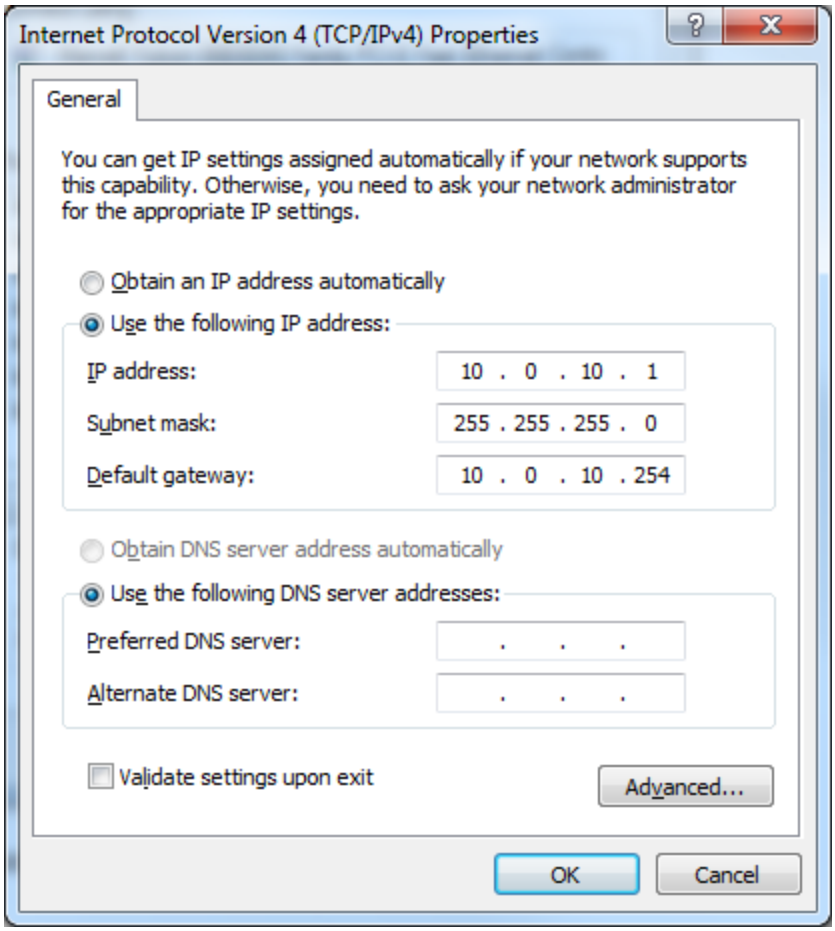
Make sure you select “Use the following IP address” option and enter

10.0.10.1 for the IP address.

Enter 255.255.255.0 for the Subnet mask.

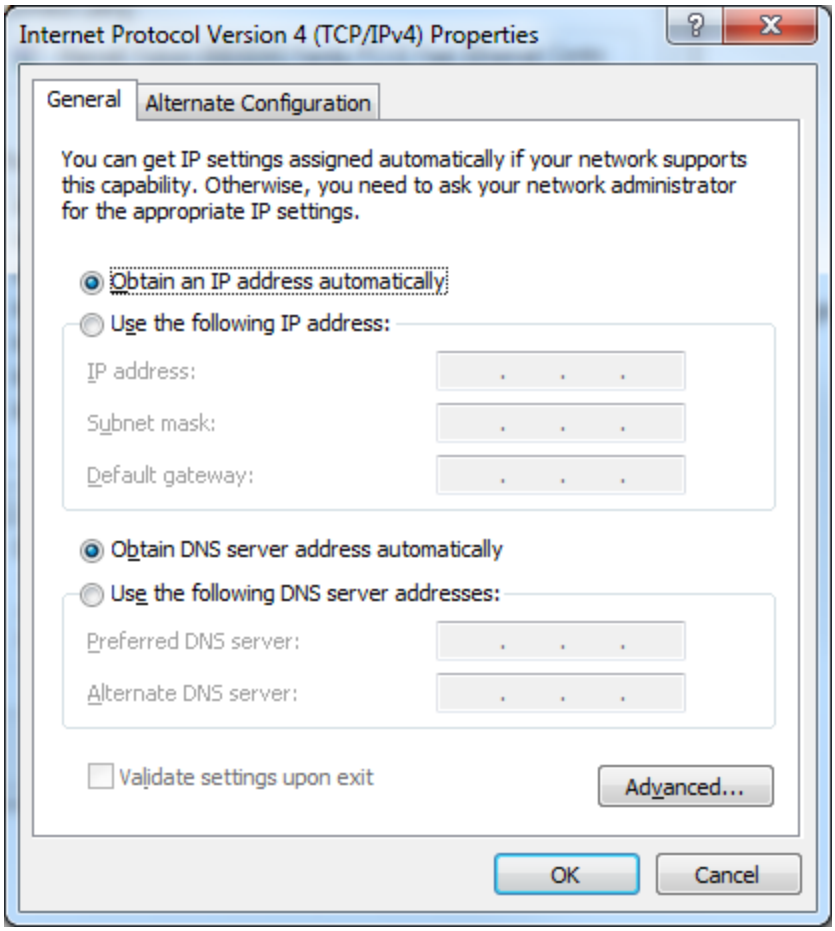
Enter 10.0.10.254 for the Default gateway.

When you are finished it should look like the image below:



Once completed proceed back to step 4 of this guide to complete the WR300N configuration.

Note: after you have finished setting up the repeater using manual TCP/IP settings you must go back to the TCP/IP settings and revert back to obtain IP automatically. See image below:


Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
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 automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

Technical Support

Diamond Technical Support staff is here to help resolve any issues that you may be experiencing. Prior to contacting technical support please make sure you have the following information available.

1. Model #: (Printed on the bar code, located on the box)

2. Installation CD Version: (printed on the CD label)

3. The version of Windows that your system is running.

4. The manufacturer and model # of your computer.

5. CPU type and speed (example: Intel Pentium4 2.4GHZ)

6. A complete description of the problem that you are experiencing including any steps that you have taken to try to resolve the issue.

Technical Support Options

Free Telephone Support

818-357-5165

(long distance rates may apply)

Mon - Fri, 8 - 4:30 PST

http://www.diamondmm.com