

## Broadband Modem SETUP with Linksys Router

First of all you have to connect the broadband modem to the computer and set that up so that you're getting connected to the internet via the modem plugged into your computer.

Then you connect the router to the computer either using an ethernet cable or using wireless such as with the wireless card built into your laptop or a wireless adapter. No cable needed from the laptop to the router when using wireless, but you will need to connect an ethernet cable to an old computer since it most likely does not have a wireless card. Of course, you could install a wireless adapter and use it wireless also.

The Linksys router comes with 4 ethernet ports so that you can connect 4 computers to it using ethernet cables plus you can connect wireless computers which need no ethernet cable to connect. The newer Linksys comes also with a Printer Port. I suggest you get the one with the Printer port.

Your broadband service provider will provide you with an install, setup disk to set up the modem or they will install it for you for a charge. Any problems during install, call your broadband tech support. You want to get your computer connected to the internet via the modem BEFORE setting up the router. Once you're connect to the internet via the broadband modem then you setup the Linksys Router, connect it to the computer and connect your modem and all your computers to the Router.

Note: in future use, if you find you can't get to the internet, unplug the modem cable from the Wlan port on the router and plug it directly to your computer's Ethernet port to see if you can connect to the internet. IF you can, then the broadband server is up and running and you've got a problem somewhere between your computer and the router. IF after plugging the modem to the computer you still can't get online, call your broadband service provider to see if it's server is down.

Now to connect your computers to the internet using broadband Modem and Linksys router.

### Shut down the computer

Connecting Your Cable or DSL Modem to the Linksys Router

1. Plug your Linksys Router power adapter into a power outlet. Check that your Router is successfully powered up by confirming that the **Power** LED on the Router lights up. Now unplug the power until the modem is up in next step.
2. Use the network cable(usually yellow or blue) that came with the modem to connect the modem to your Router's WAN Port Plug one end of the cable into the **ethernet port** of your modem, and the other end into the **WAN** port on your Router.
3. Plug the modem's power adapter into a power outlet. Power on your modem using the on/off button on the modem. Plug the telephone cord to the modem if using DSL and plug into the wall telephone jack or plug the Cable if using broadband cable into the modem. Wait until the you see lights go on the modem.(When an ethernet cable is plugged into a computer that is not wireless, you will also see light on ethernet)

4. Next, plug the power cable of the router into Power jack. Check to see that the Router's front panel **WAN Link** LED is on to confirm a successful connection.

5. Power up your computer. Click the big E to bring up Microsoft Internet Explorer. It should immediately go to your home page if you've setup a home page. IF no home page, then just type in any address such as [www.hp.com](http://www.hp.com) and click GO. IT should connect you to that web site, confirming you're connected to the internet via the router and the modem. If it doesn't connect, give a call to Linksys and let them walk you through the setup process.

What happens is that the modem will assign an IP address to your Router (to your computer if no router is used) and then the Router will assign different IP addresses to each computer attached to it by either ethernet cable or by wireless connection. The router also acts as a firewall in that anyone reaching your computer will only see the IP address of the router but will NOT see the IP addresses the router assigns to individual computers. But it is still very important that in setting up the Router that you create a WEP or WPA passcode for that wireless computer. WPA encryption is more secure but some routers are not compatible with WPA in which case you set up WEP passcode. This will be done during the setup of the wireless security connection.

## Connecting PCs to Your Linksys Router

Now that your Router and your DSL modem are connected and powered on, it's time to get your PCs connected. You'll need one network cable for each PC, unless you've installed wireless adapters to each computer or your laptop has a built in wireless card.

You may connect your Router to just one PC, or you may connect the Router to multiple PCs.

- To connect your Router to just one PC, Plug one end of the ethernet cable into the ethernet port on the computer(looks like a telephone jack but larger).

Plug the other end of the network cable into one of the 4 **standard RJ-45 ports** on the Router.

Check to see that the LEDs on your Router for your **WAN** port and your **LAN** ports light up. For the 4-Port Router, your **LAN** ports LEDs are labeled **1**, **2**, **3**, and **4**. Each LED represents the port to which a computer is connected by ethernet cable. For instance, if only 1 computer is connected using ethernet cable to LAN port #3 on the router, then only #3 LED will be lighted. No lights show the wireless connections as it is not connected to a port.

You should see the power light, the WLAN (connection to modem) and one LED for each computer connected via ethernet cable showing on the router. You are now ready to power up your computer or computers and connect to the internet. Using DSL, you may have all the computers, including the wireless laptop online and still be able to talk on the phone with no problem.

Note: you rarely have to reset the modem...never push that reset button on the back to do this as it erases the settings originally setup by DSL. Instead

following this little procedure to Power-Cycle the modem to reassign the IP Addresses.

1. Shut down the computer.
2. Unplug the router power.
3. Turn off the modem in that order. Wait 1-2 minutes.
4. Turn on the modem, wait for the lights.
5. power up the router. Wait for lights.
6. Turn on Computer. Let it load completely.
7. Open IE and your home page should appear. If it doesn't it may be that your broadband service may be down in your area. Call them. If you go changing settings, etc before calling them, you may cause more problems and mask the real problem.

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