

# LINKSYS E2500 Advanced Simultaneous Dual-Band Wireless-N Router User Guide

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# LINKSYS®

## User Guide

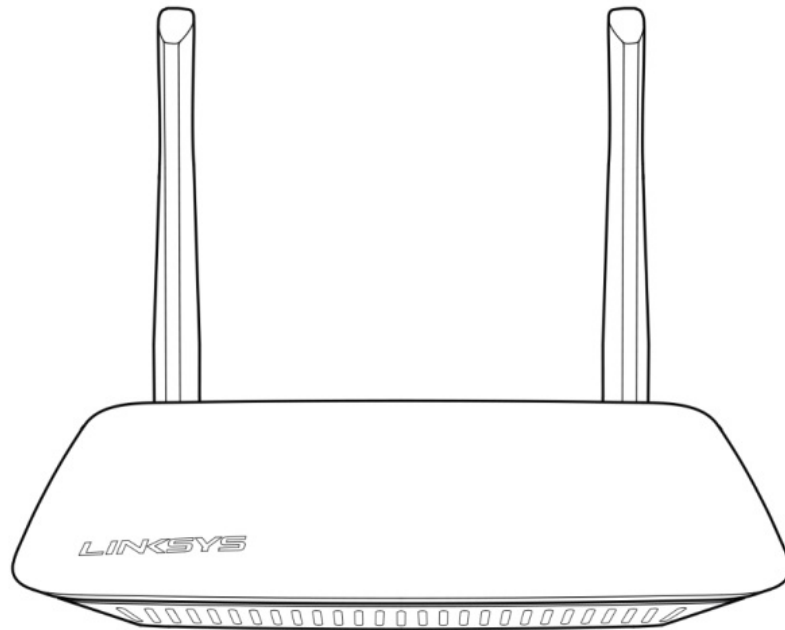
N600 / AC1,000 / AC1,200 DUAL-BAND ROUTER  
Model it E2500 / E5350 / E5400

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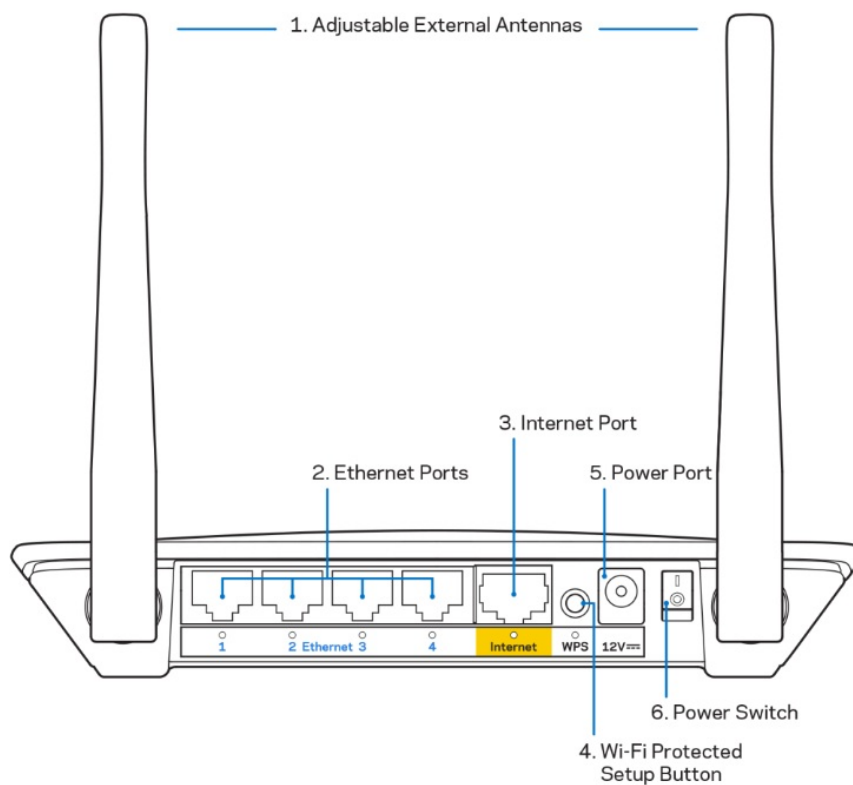
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## Product Overview

### Top view



## Back view



1. **Adjustable external antennas**—This router ships with 2 external antennas that should be connected to the router.

**Note**—For best performance, position the antennas vertically as shown in the picture.

2. **Ethernet ports**—Connect Ethernet cables (also called network or internet cables) to these Fast Ethernet (10/100) ports and to other wired devices on your network.

3. **Internet port**—Connect an Ethernet cable to this port and to your modem.

4. **Wi-Fi Protected Setup™ (WPS) button**—Press to easily configure wireless security on Wi-Fi Protected

Setup-enabled network devices.

5. **Power port**—Connect the included AC power adapter to this port.
6. **Power switch (not applicable in the US and Canada)** —Press I (on) to power on the router.

## Setting Up: Basics

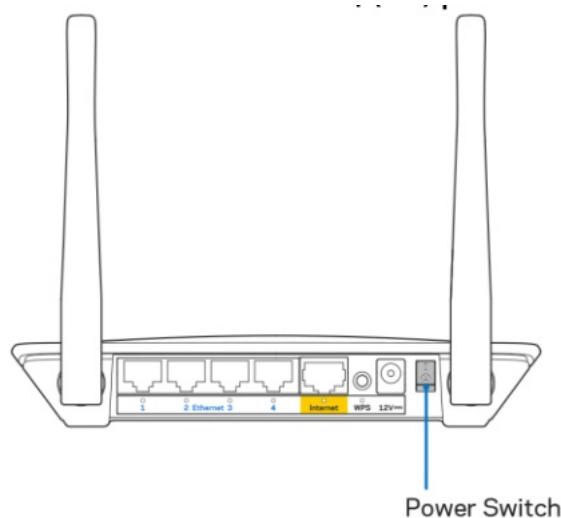
### Where to find more help

In addition to this user guide, you can find help at [Linksys.com/support/E2500](http://Linksys.com/support/E2500) or [Linksys.com/support/E5350](http://Linksys.com/support/E5350) or [Linksys.com/support/E5400](http://Linksys.com/support/E5400) (documentation, downloads, FAQs, technical support, live chat, forums)

Note—Licenses and notices for third-party software used in this product may be viewed on <http://support.linksys.com/en-us/license>. Please contact <http://fisupport.linksys.com/en-us/golcodecenter> for questions or GPL source code requests.

### How to install your router

1. If replacing an existing router, disconnect that router first.
2. Connect the antennas and plug in the router to a power source. If you have a power switch, make sure it's in the I (on) position.

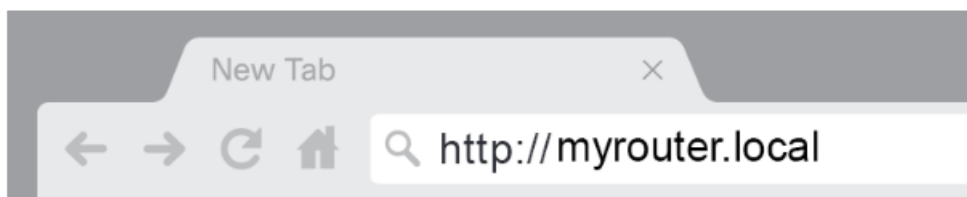


<p><b>A</b> Modem</p> Diagram A shows a router connected to a modem. A blue arrow points from the yellow Internet port on the router to the Ethernet (LAN) port on the modem. A power cable is also shown connected to the router.	<p><b>B</b> Modem-Router</p> Diagram B shows a router connected to a modem-router. A blue arrow points from the yellow Internet port on the router to one of the Ethernet ports on the modem-router. A power cable is also shown connected to the router.
<p>Plug one end of the included ethernet cable into the yellow Internet port on your new router. If you have a modem, plug the other end into the Ethernet (LAN) port on the modem.</p>	<p>OR</p> <p>Plug one end of the included ethernet cable to the yellow Internet port on your new router. If you have a modem router, plug the other end into any available port.</p>

4. Connect to the network name shown in the Quick Start Guide that came with your router. (You can change the network name and password later.) Select the option to automatically connect to this network in the future. If you need help connecting to the network refer to your device documentation on the provided CD. Note—You will not

have internet access until the router setup is complete.

5. Enter <http://myrouter.local> in a web browser. Follow the on-screen instructions to complete the setup. You also can enter 192.168.1.1 in a browser to start setup. <http://myrouter.local>



6. Once you are finished with the setup, please be sure to register your router so we can keep you informed of security updates, product recalls, and other things that will improve your experience.

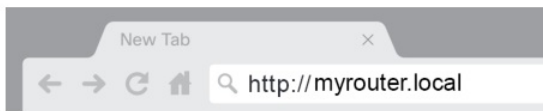
A screenshot of the Linksys registration page. The header is blue with the Linksys logo and the text 'Next-Gen AC Wireless Range Extender'. The main heading is 'Register your product'. Below it, a paragraph explains the benefits of registration. There is an 'Email Address' input field. A checkbox option allows users to receive special offers and information. At the bottom right, there are 'Skip' and 'Next' buttons. A copyright notice for Belkin International is at the very bottom.

## Advanced Configuration

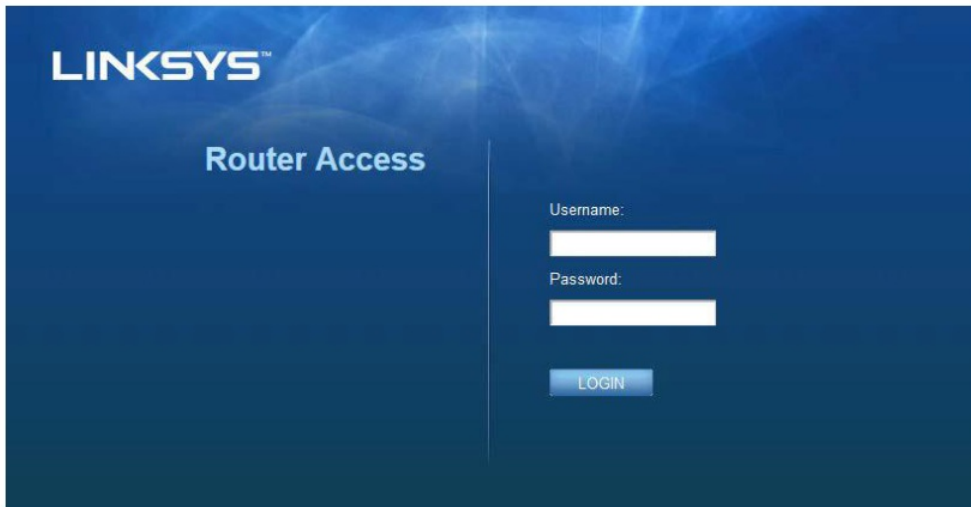
### How to open the browser-based utility

To access some advanced settings, you need to open the browser-based utility. Make sure you are connected to the router, open a web browser and enter <http://myrouter.local> in a web browser or go to

192.168.1.1. <http://myrouter.local>



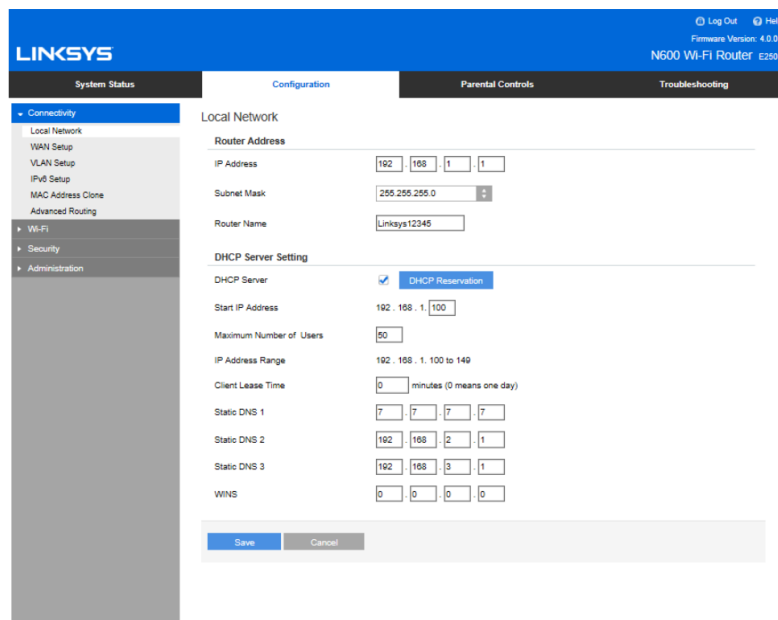
The router will prompt you for a username and password.



If you changed the password during setup, enter-admin\* in the Username field and the new password. Click LOGIN. If you didn't change the password or skipped setup altogether, the default username and password are admin" and "admin\*.

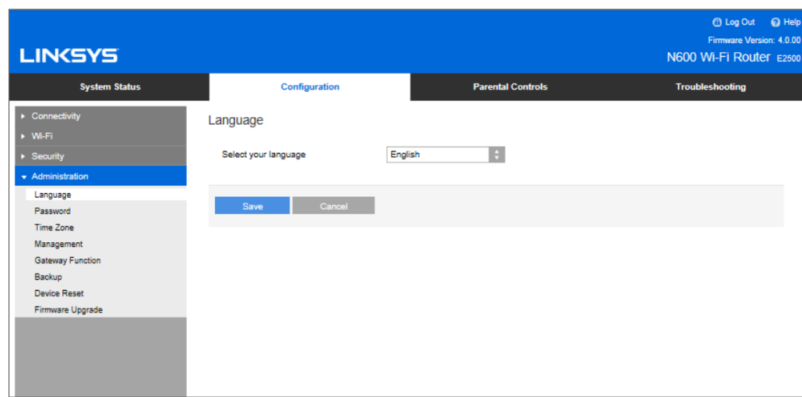
## Basic Router Settings

This screen allows changing the router's basic configuration.



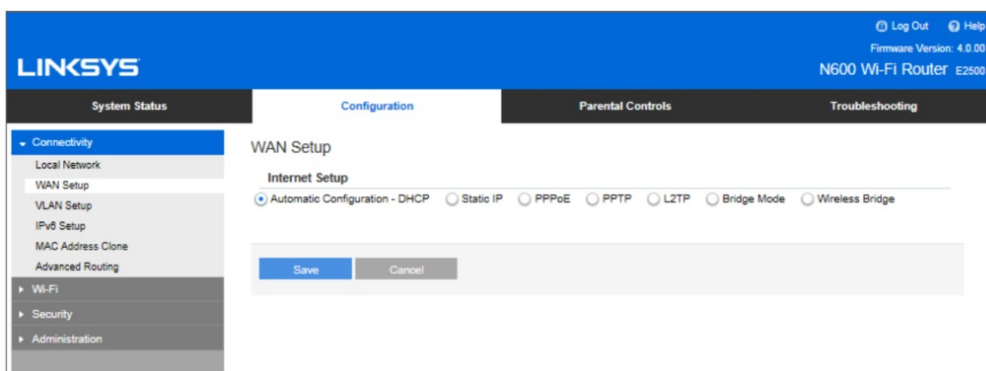
## Language

Select your language—To change language, select one from the drop-down menu. The language of the browser-based utility will change within five seconds.



## Internet Setup

The Internet Setup section configures the router to your internet connection. This information can be provided by your Internet Service Provider (ISP). Internet Connection **Type Select the type**— of internet connection your ISP provides from the drop-down menu.



- Automatic Configuration – DHCP (default)

Keep the default only if your ISP supports DHCP or if you connect using a dynamic IP address. (This option usually applies to cable connections.)

- Static IP Select if you are required to use a fixed IP address to connect to the internet.

- **PPPoE**

Select if you have a DSL connection and your ISP uses Point-to-Point Protocol over Ethernet (PPPoE).

- **PPTP**

Point-to-Point Tunneling Protocol (PPTP) is a service that generally applies to connections in Europe. If your PPTP connection supports DHCP or a dynamic IP address, select Obtain an IP Address Automatically. If you are required to use a fixed IP address to connect to the internet, select Specify an IP Address and configure the options that appear.

- **L2TP**

Layer 2 Tunneling Protocol (L2TP) is a service that generally applies to connections in Israel. Note-Connect on Demand or Keep Alive are options when choosing PPPoE, PPTP, and L2TP. They let you choose whether the router connects to the internet only as needed (useful if your ISP charges for connect time), or if the router should always be connected. Select the appropriate option.

- **Bridge Mode**

Bridge Mode disables all router capabilities and turns the router into an access point. The router will cease to act as a DHCP server and its built-in firewall, as well as the NAT features, will no longer be in effect.

- **Wireless Bridge**

A wireless bridge wirelessly connects to your main router and can share the internet connection with devices

connected to the bridge's Ethernet ports.

## Basic Wireless Settings

The screenshot shows the Linksys N600 Wi-Fi Router configuration page. The top navigation bar includes 'System Status', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The 'Configuration' tab is active, and the 'Basic Wireless Settings' page is displayed. The left sidebar shows a tree view with 'Connectivity' expanded, containing 'Wi-Fi', 'Basic Wireless Settings', 'Wi-Fi Protected Setup', 'Wireless Security', 'Guest Access', and 'Wireless MAC Filter'. The 'Wi-Fi' option is selected. The main content area is titled 'Basic Wireless Settings' and is divided into two sections: '5 GHz Wireless Settings' and '2.4 GHz Wireless Settings'. Each section has fields for 'Network Mode', 'Network Name (SSID)', 'Channel Width', 'Channel', and 'SSID Broadcast'. The '5 GHz' section shows 'Network Mode' as 'Mixed', 'Network Name (SSID)' as 'RTDEV\_AP', 'Channel Width' as 'Auto (20 MHz or 40 MHz)', 'Channel' as 'Auto (DFS)', and 'SSID Broadcast' as checked. The '2.4 GHz' section shows 'Network Mode' as 'Mixed', 'Network Name (SSID)' as 'Linksys09000', 'Channel Width' as 'Auto (20 MHz or 40 MHz)', 'Channel' as 'Auto', and 'SSID Broadcast' as checked. At the bottom of the form are 'Save' and 'Cancel' buttons.

Network Mode—Select the wireless standards your network will support.

- **Mixed (default)**

Keep the default if you have Wireless-N (2.4 GHz), Wireless-G, and Wireless-B devices in your network.

- **Wireless-A Only**

Select if you have only Wireless-A devices.

- **Wireless-N Only**

Select if you have only Wireless-N (2.4 GHz) devices.

- **Disabled**

Select if you have no Wireless-B, Wireless-G, and Wireless-N (2.4 GHz) devices in your network.

**Note—You** may select Mixed, Wireless-A/N Only or Disabled for the 5 GHz band. If you are not sure which model to select, keep the default, Mixed.

### Network Name (SSID)

The Service Set Identifier (SSID) is a name used by devices to connect to a wireless network. SSIDs are case-sensitive and must not exceed 32 characters. The default SSIDs for the 2.4 GHz and 5 GHz networks are LinksysXXXXX and LinksysXXXXX\_5GHz, respectively. The Xs represent the last five digits of the router's serial number, which can be found on the bottom of the router. If you changed the SSID, both bands have the new SSIDs. You may give them different names through the browser-based utility.

**Note**—If you restore the router's factory default settings (by pressing the Reset button or using the Administration > Factory Defaults screen), the Network Name will return to its default value. Change the Network Name back to its original name, or you will have to reconnect all devices on your wireless network to the new network name.

**Channel Width** Keep the default, Auto (20 MHz or 40 MHz), for best performance in a 2.4 GHz network using Wireless-B, Wireless-G and Wireless-N (2.4 GHz) devices. For a channel width of 20 MHz, select 20 MHz only. For the best performance in a 5 GHz network, keep the default 20, 40 or 80 MHz.

**Channel** Select the channel from the drop-down list. Keep the default, Auto, if you are not sure which channel to select.

### SSID Broadcast

Keep the default, Enabled, to broadcast the router's SSID. When wireless clients survey the local area for wireless networks to associate with they will detect the SSID broadcast by the router. Attempting to hide your Wi-Fi name does not make your Wi-Fi more secure. Anyone truly interested in accessing your network can find it even if you turn off this feature. If you still do not want to broadcast the router's SSID, select Disabled.

## Wireless Security

The router offers the following wireless security options: WPA2 Personal / WPA2 Enterprise (WPA stands for Wi-Fi Protected Access.)

Security Option	Strength
WPA2 Personal	Strongest
WPA2 Enterprise	

### Security Option Settings

#### WPA2 Personal

If you select WPA2 Personal, each device in your wireless network **MUST** use WPA2 Personal and the same passphrase.

Passphrase—Enter a passphrase of 8-63 characters. This is the Wi-Fi password that provides access to the network. It can be the same as entered in setup.


#### Disabled

If you choose to disable wireless security, you will be informed that wireless security is disabled when you first attempt to access the internet. You will be given the option to enable wireless security or confirm that you understand the risks but still wish to proceed without wireless security.

### Security Option Settings

#### WPA2 Personal

If you select WPA2 Personal, each device in your wireless network **MUST** use WPA2 Personal and the same passphrase.

A screenshot of a web interface showing a dropdown menu for 'Security Mode'. The dropdown is open, and 'WPA2 Personal' is selected and displayed in the menu. The text 'Security Mode' is visible to the left of the dropdown.

Passphrase—Enter a passphrase of 8-63 characters. This is the Wi-Fi password that provides access to the network. It can be the same as entered in setup.

#### Disabled

If you choose to disable wireless security, you will be informed that wireless security is disabled when you first attempt to access the internet. You will be given the option to enable wireless security or confirm that you understand the risks but still wish to proceed without wireless security.

A screenshot of a web interface showing a dropdown menu for 'Security Mode'. The dropdown is open, and 'Disabled' is selected and displayed in the menu. The text 'Security Mode' is visible to the left of the dropdown.

## Troubleshooting

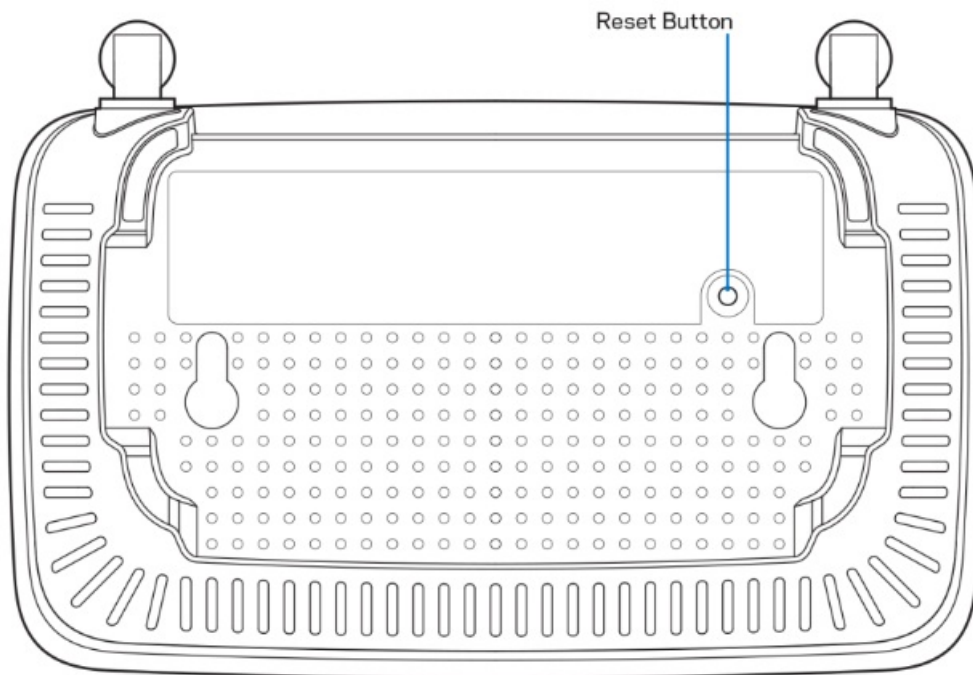
You can find more help from our award-winning customer support at [Linksys.com/support/E8400](https://Linksys.com/support/E8400).

#### Your router was not successfully set up

If you could not complete setup in the browser-based interface, you can try the following:

- Press and hold the Reset button on your router with a paperclip or pin until the illuminated Linksys logo turns off and starts blinking (about 10 seconds). Type 192.168.1.1 in a browser to try setup again.



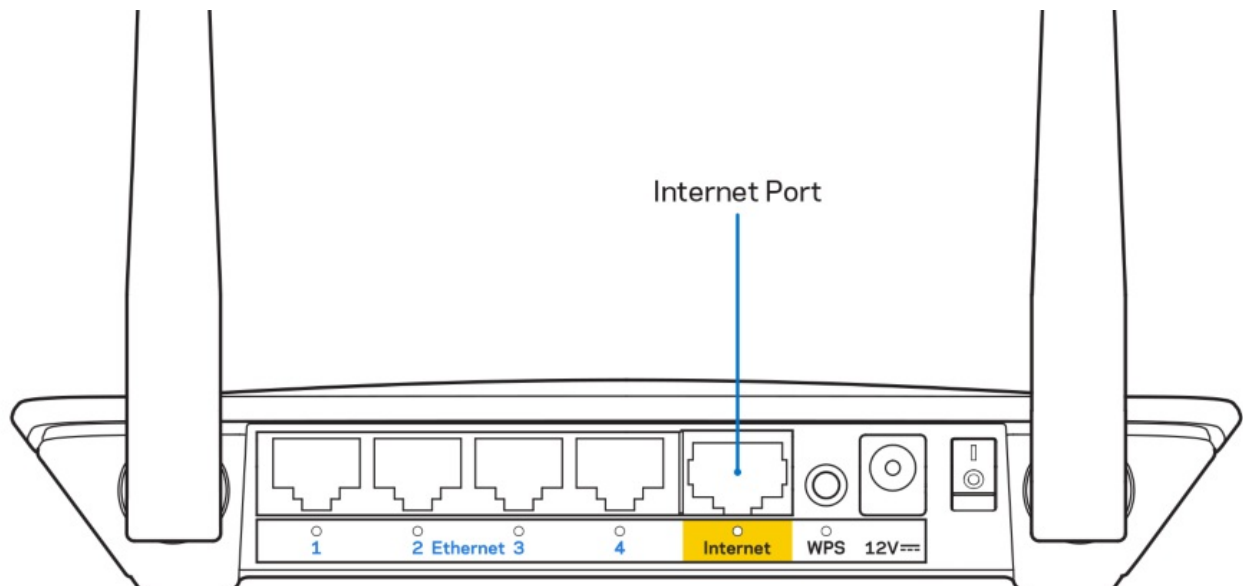


- Temporarily disable your computer's firewall (see the security software's instructions for help). Install the router again.
- If you have another computer, use that computer to install the router.

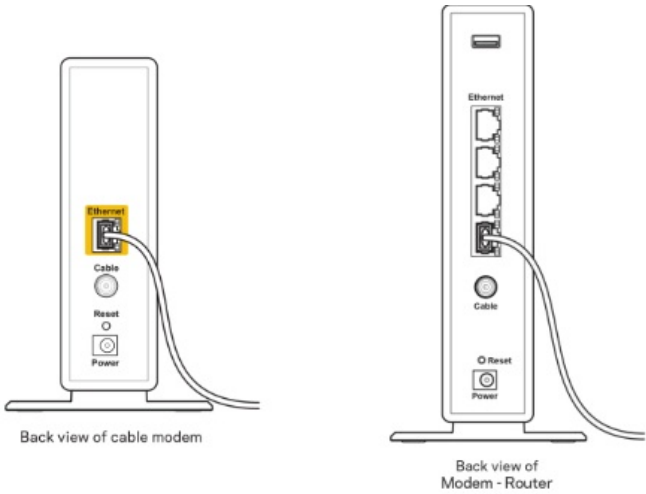
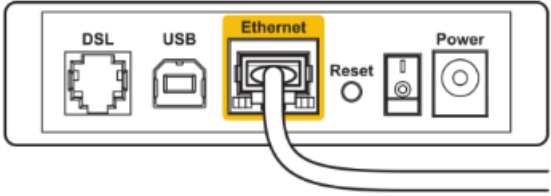
### **Your Internet cable is not plugged in message**

If you get a "Your Internet cable is not plugged in" message when trying to set up your router:

- Make sure that an Ethernet or Internet cable (or a cable like the one supplied with your router) is securely connected to the yellow Internet port on the back of the router and to the appropriate port on your modem. This port on the modem is usually labeled Ethernet.



- Make sure that your modem is connected to power and is turned on.

 <p>Back view of cable modem</p> <p>Back view of Modem - Router</p>	 <p>Back view of DSL modem</p>
<p>If your Internet service is cable, verify that the cable modem's CABLE port is connected to the coaxial cable provided by your ISP.</p>	<p>If your Internet service is DSL, make sure that the DSL phone line is connected to the modem's DSL port.</p>

- If your computer was previously connected to your modem with a USB cable, disconnect the USB cable.
- Install the router again.

### Cannot access your router message

To access your router, you must be connected to your own network. If you currently have wireless internet access, the problem may be that you have accidentally connected to a different wireless network.

To fix the problem on Windows computers, do the following :

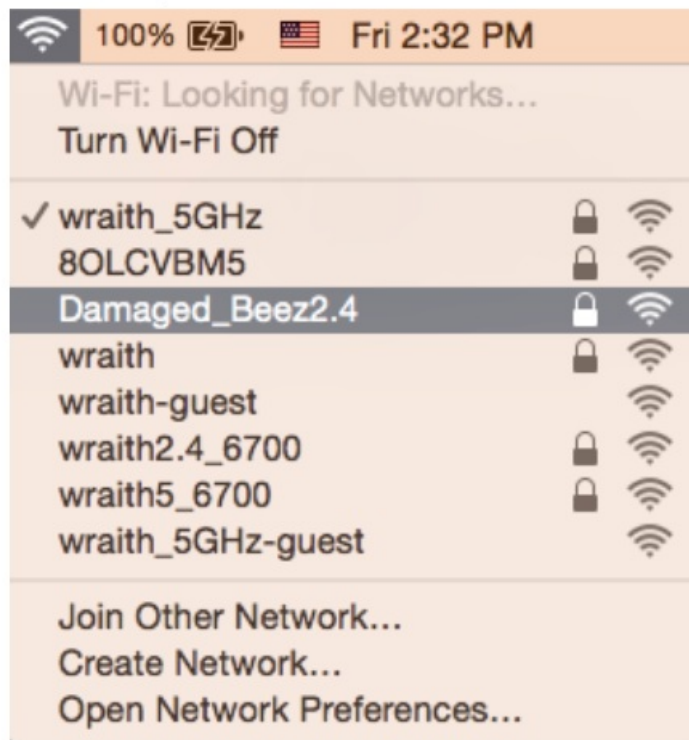
1. On your Windows desktop, click on the wireless icon in the system tray. A list of available networks will appear.
2. Click your own network name. Click Connect. In the example below, the computer was connected to another wireless network named wraith 5GHz. The wireless network name of the Linksys E series router, Damaged\_Beez2.4 in this example, is shown selected.



3. If you are prompted to enter a network security key, type your password (security key) into the network security key field. Click OK.
4. Your computer will connect to the network, and you should be able to access the router. Depending on your version of Windows, there could be some differences in wording or icons in these steps.

To fix the problem on Mac computers, do the following:

1. In the menu bar across the top of the screen, click the Wi-Fi icon. A list of wireless networks will appear.
2. In the example below, the computer was connected to another wireless network named wraith 5G Hz. The wireless network name of the Linksys E series router, DamagedBeez2.4 in this example, is shown selected.



3. Click the wireless network name of your Linksys E series router (DamagedBeez2.4 in the example). 4. Type your wireless network password (Security Key) into the Password field. Click OK.

### After setup

The Internet appears to be unavailable If the internet has difficulty communicating with your router, the problem may appear as a “Cannot find (internet address)” message in your web browser. If you know that the internet address is correct, and if you’ve tried several valid internet addresses with the same result, the message could mean that there’s a problem with your ISP or modem communicating with your router.

### Try the following:

- Make sure that the network and power cables are securely connected
- Make sure that the power outlet that your router is connected to has power.
- Reboot your router.
- Contact your ISP and ask about outages in your area. The most common method of troubleshooting your router is to turn it off, then back on again. Your router can then reload its custom settings, and other devices (such as the modem) will be able to rediscover the router and communicate with it. This process is called rebooting.

To restart your router using the power cord, do the following:

1. Disconnect the power cord from the router and the modem.
2. Wait 10 seconds and reconnect the power cord to the modem. Make sure it has power.
3. Wait until the modem’s online indicator has stopped blinking (about two minutes). Reconnect the power cord to the router.
4. Wait until the flashing green LED between the Reset button and power port is solid. Wait two minutes before trying to connect to the internet from a computer.

## Specification

### Linksys E2500

Model Name	Linksys WiFi Router, N600
Model Number	E2500
Switch Port Speed	10/100 Mbps (Fast Ethernet)
Radio Frequency	2.4 GHz and 5 GHz
# of Antennas	2 external
Ports	Ethernet (1-4), Internet, Power
Buttons	Wi-Fi Protected Setup, Reset, Power Switch (Not available for unit sold in US and Canada)
LEDs	Back panel: Ethernet (1-4), Internet, Wi-Fi, Wi-Fi Protected Setup
UPnP	Supported
Security Features	WPA2 Personal, WPA2 Enterprise
Security Key Bits	Up to 128-bit encryption

## Environmental

Dimensions	6.69" x 4.41" x 1.3" (W x L x DI (170 mm x 112 mm x 33 mm) without antennas
Unit Weight	0.38 lb (172 g) with antennas
Power	12V, 0.5A
Certifications	FCC, IC, CE, Wi-Fi (IEEE 802.11 a/b/g/n)
Operating Temperature	32 to 104°F (0 to 40°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)
Operating Humidity	10% to 80% relative humidity, non-condensing
Storage Humidity	5% to 90% non-condensing


**Notes:** For regulatory, warranty, and safety information, see the CD that came with your router or go to [Linksys.com/support/E2500](http://Linksys.com/support/E2500) or [linksys.com/support/E5350](http://linksys.com/support/E5350) or [linksys.com/support/E5400](http://linksys.com/support/E5400).  
**Specifications are subject to change without notice.**

Maximum performance derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range, and coverage. Performance depends on many factors, conditions, and variables, including distance from the access point, the volume of network traffic, building materials and construction, operating system used, a mix of wireless products used, interference, and other adverse conditions.

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## Documents / Resources

	<a href="#">LINKSYS E2500 Advanced Simultaneous Dual-Band Wireless-N Router [pdf] User Guide</a> E2500, E5350, E5400, Advanced Simultaneous Dual-Band Wireless-N Router
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