

LINKSYS®

User Guide

AC2400

DUAL-BAND

GIGABIT ROUTER

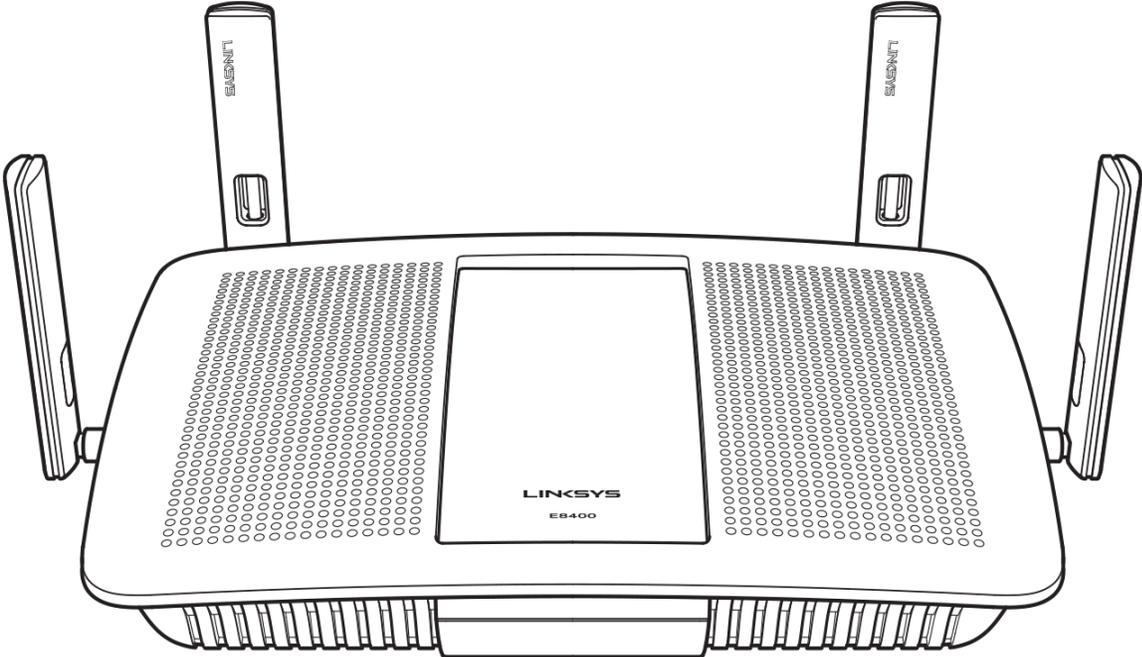
Model # E8400

Contents

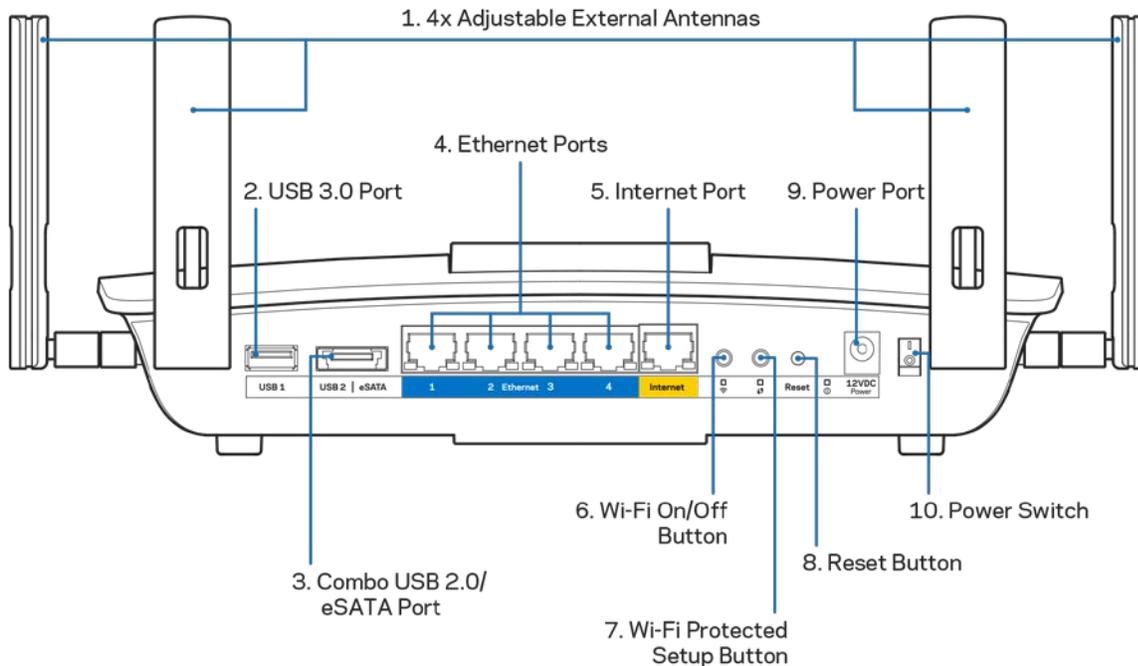
Product Overview	3
Top view	3
Back view.....	4
Setting Up: Basics	5
Where to find more help	5
How to install your router	5
Advanced Configuration	8
How to open the browser-based utility.....	8
Basic Router Settings.....	9
Language.....	10
Internet Setup	10
Basic Wireless Settings	11
Wireless Security	13
Security Option Settings.....	13
<i>WPA2/WPA Mixed Mode, WPA2 Personal</i>	13
WEP.....	13
Disabled.....	14
Troubleshooting	15
Your router was not successfully set up.....	15
<i>Your Internet cable is not plugged in</i> message.....	16
<i>Cannot access your router</i> message.....	17
After setup.....	18
The Internet appears to be unavailable	18
Specifications	19
Linksys E8400	19
Environmental.....	19

Product Overview

Top view



Back view



- 1. Adjustable external antennas**—This router ships with four adjustable external antennas that should be connected to the router before powering it on. To connect the antennas, twist the antenna clockwise onto the antenna connector on the router.
Note—For best performance, position the side antennas vertically as shown in the picture.
- 2. USB 3.0 port**—Connect and share a USB drive or USB printer on your network or on the Internet.
- 3. Combo USB 2.0/eSATA port**—Connect and share a USB/eSATA drive or a USB printer on your network or on the Internet.
- 4. Ethernet ports**—Connect Ethernet cables (also called network or Internet cables) to these Gigabit Ethernet (10/100/1000) ports and to other wired devices on your network.
- 5. Internet port**—Connect an Ethernet cable to this port and to your modem.
- 6. Wi-Fi button**—Press to turn the wireless function on and off.
- 7. Wi-Fi Protected Setup™ (WPS) button**—Press to easily configure wireless security on Wi-Fi Protected Setup-enabled network devices.
- 8. Reset button**—Press and hold until all port lights blink at the same time to reset the router to its factory defaults.
- 9. Power port**—Connect the included AC power adapter to this port.
- 10. Power switch**—Press | (on) to power on the router.

Setting Up: Basics

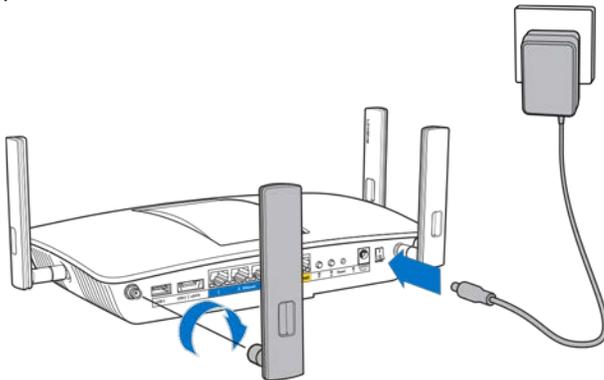
Where to find more help

In addition to this user guide, you can find help at Linksys.com/support/E8400 (documentation, downloads, FAQs, technical support, live chat, forums)

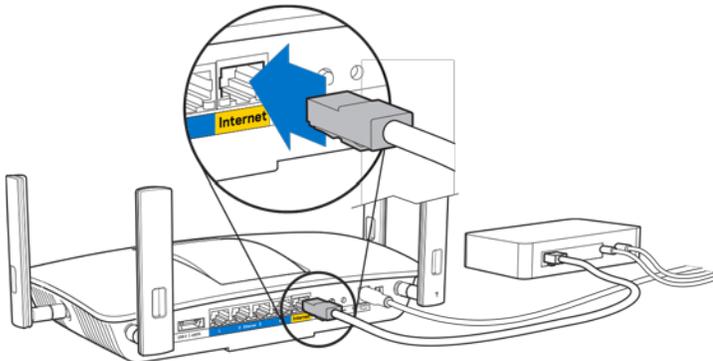
Note—Licenses and notices for third party software used in this product may be viewed on <http://support.linksys.com/en-us/license>. Please contact <http://support.linksys.com/en-us/gplcodecenter> for questions or GPL source code requests.

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. Press power switch to | (on) to power on the router.



3. Connect the Internet cable from your modem to the yellow Internet port on your router. Wait until the flashing green LED between the Reset button and power port is solid.



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 router setup is complete.*

5. Type 192.168.1.1 in a browser to start setup.



Tip—*Print the next page, then record your router and account settings in the table as a reference. Store your notes in a safe place.*

2.4 GHz Network Name	
Network Password	
5 GHz Network Name	
Network Password	
Router Password	
Guest Network Name	
Guest Network Password	

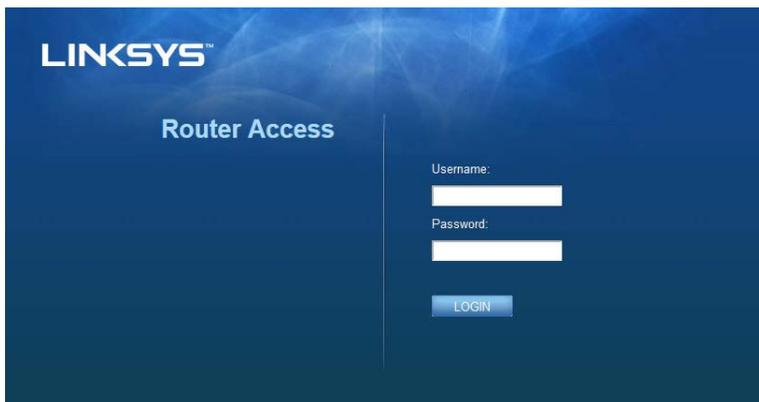
Advanced Configuration

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 go to 192.168.1.1.



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

Language	
Select your language	English
Internet Setup	
Internet Connection Type	Automatic Configuration - DHCP
Optional Settings (required by some Internet Service Providers)	
Host Name:	<input type="text"/>
Domain Name:	<input type="text"/>
MTU:	Auto Size: 1500
Network Setup	
Router Address	
IP Address:	192 . 168 . 1 . 1
Subnet Mask:	255.255.255.0
Device Name:	Cisco00009
DHCP Server Setting	
DHCP Server:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled DHCP Reservation
Start IP Address:	192 . 168 . 1 . 100
Maximum Number of Users:	50
IP Address Range:	192 . 168 . 1 . 100 to 149
Client Lease Time:	0 minutes (0 means one day)
Static DNS 1:	0 . 0 . 0 . 0
Static DNS 2:	0 . 0 . 0 . 0
Static DNS 3:	0 . 0 . 0 . 0
WINS:	0 . 0 . 0 . 0
Time Settings	
Time Zone	
	(GMT-08:00) Pacific Time (USA & Canada)
	<input checked="" type="checkbox"/> Automatically adjust clock for daylight saving changes.
Reboot	
	Reboot

This screen allows you to change 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.

- o **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.)
- o **Static IP**
Select if you are required to use a fixed IP address to connect to the Internet.
- o **PPPoE**
Select if you have a DSL connection and your ISP uses Point-to-Point Protocol over Ethernet (PPPoE).
- o **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.
- o **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.*

- o **Telstra Cable**
Telstra Cable is a service that generally applies to connections in Australia.
- o **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.

- o **DS-Lite**
The Dual Stack Lite (DS-Lite) feature enables legacy IPv4 hosts and server communication over both IPv4 and IPv6 networks. For advanced users with older networking equipment.
- o **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

Network Mode:	<input type="text" value="Mixed"/>
Network Name (SSID):	<input type="text" value="Linksys00056"/>
Channel Width:	<input type="text" value="20 MHz Only"/>
Channel:	<input type="text" value="Auto"/>
SSID Broadcast:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

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

- o **Mixed** (default)
Keep the default if you have Wireless-N (2.4 GHz), Wireless-G, and Wireless-B devices in your network.
- o **Wireless-B/G Only**
Select if you have both Wireless-B and Wireless-G (2.4 GHz) devices in your network.
- o **Wireless-B Only**
Select if you have only Wireless-B devices.
- o **Wireless-G Only**
Select if you have only Wireless-G devices.
- o **Wireless-N Only**
Select if you have only Wireless-N (2.4 GHz) devices.
- o **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 mode 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/WPA Mixed Mode, WPA2 Personal and WEP. (WPA stands for Wi-Fi Protected Access. WEP stands for Wireless Equivalent Privacy).

Security Option	Strength
WPA2 Personal	Strongest
WPA2/WPA Mixed Mode	WPA2: Strongest WPA: Strong
WEP	Basic

Security Option Settings

WPA2/WPA Mixed Mode, WPA2 Personal

Notes—If you select WPA2/WPA Mixed Mode, each device in your wireless network **MUST** use WPA2/WPA and the same passphrase.

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

Security Mode:

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.

WEP

WEP is a basic encryption method, which is not as secure as WPA2/WPA. WEP is not available on 5 GHz network.

Note—If you select WEP, each device in your wireless network **MUST** use WEP and the same encryption and shared key.

Encryption—Select a level of WEP encryption: 40/64-bit, 10 hex digits or 104/128-bit, 26 hex digits. The default is 40/64-bit, 10 hex digits.

Passphrase—Enter a passphrase to automatically generate WEP keys. Then click Generate.

Security Mode:

Encryption:

Passphrase:

Key 1:

Key 1—If you did not enter a passphrase, enter the WEP key manually.

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 Mode:

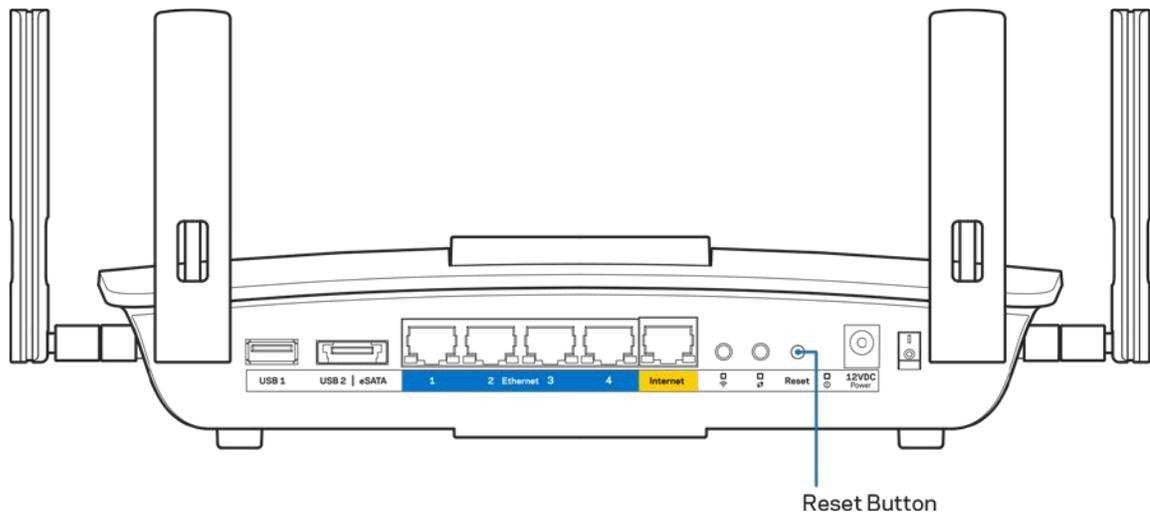
Troubleshooting

You can find more help from our award-winning customer support at 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.

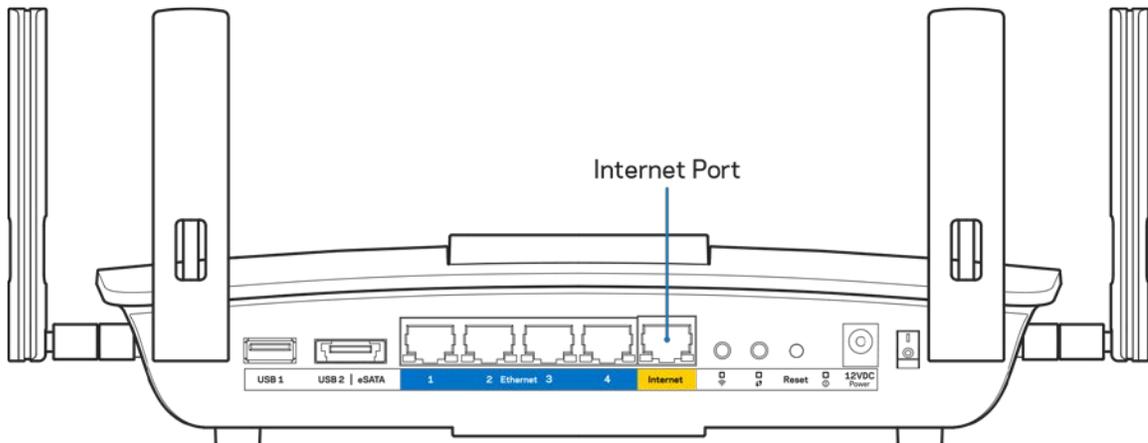


- Temporarily disable your computer's firewall (see the security software's instructions for help). Install the router again.
- If you have another computer, use that computer to install the router.

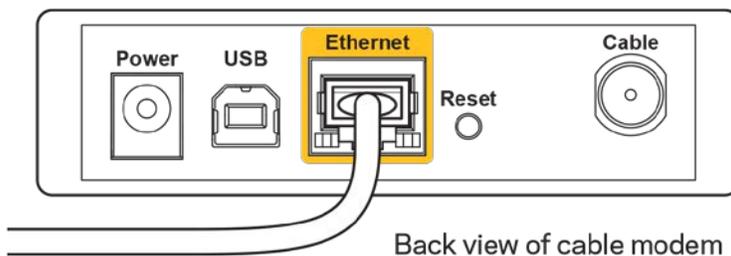
Your Internet cable is not plugged in message

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

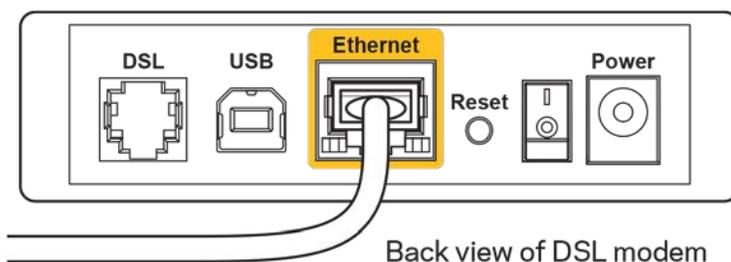
- Make sure that an Ethernet or Internet cable (or a cable like the one supplied with your router) is securely connected to the yellow Internet port on the back of the router and to the appropriate port on your modem. This port on the modem is usually labeled Ethernet.



- Make sure that your modem is connected to power and is turned on.
- If your Internet service is cable, verify that the cable modem’s CABLE port is connected to the coaxial cable provided by your ISP.



- If your Internet service is DSL, make sure that the DSL phone line is connected to the modem’s DSL port.



- 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 E8400 router, Damaged_Beez2.4 in this example, is shown selected.

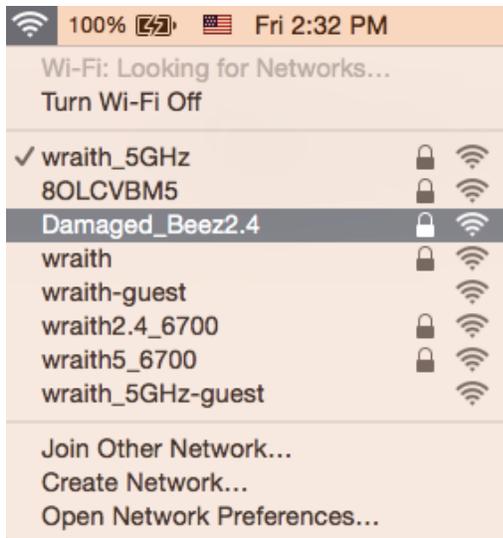


3. If you are prompted to enter a network security key, type your password (security key) into the network security key field. Click **OK**.
4. Your computer will connect to the network, and you should be able to access the router.

**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_5GHz. The wireless network name of the Linksys E8400 router, Damaged_Beez2.4 in this example, is shown selected.



3. Click the wireless network name of your Linksys E8400 router (Damaged_Beez2.4 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 reboot 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.

Specifications

Linksys E8400

Model Name	AC2400 Dual-Band Gigabit Router
Model Number	E8400
Switch Port Speed	10/100/1000 Mbps (Gigabit Ethernet)
Radio Frequency	2.4 GHz and 5 GHz
# of Antennas	4 external
Ports	USB 2.0 / eSATA combo, USB 3.0, Ethernet (1-4), Internet, Power
Buttons	Wi-Fi Protected Setup, Reset, Wi-Fi, Power
LEDs	Back panel: Ethernet (1-4), Internet, Wi-Fi, Wi-Fi Protected Setup
UPnP	Supported
Security Features	WEP (2.4 GHz network only), WPA, WPA2
Security Key Bits	Up to 128-bit encryption
Storage File System Support	FAT, NTFS, and HFS+

Environmental

Dimensions	10.09" x 2.21" x 7.22" (256.3 mm x 56.2 mm x 183.5 mm) without antennas
Unit Weight	19.55 oz (554.2 g) without antennas 22.16 oz (628.2 g) with antennas
Power	12V, 3A
Certifications	FCC, IC, CE, Wi-Fi (IEEE 802.11 a/b/g/n/ac), Windows 7, Windows 8
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/E8400.

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, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

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