

LINKSYS®

User Guide

**MAX-STREAM™
AC2200 MU-MIMO
TRI-BAND ROUTER**

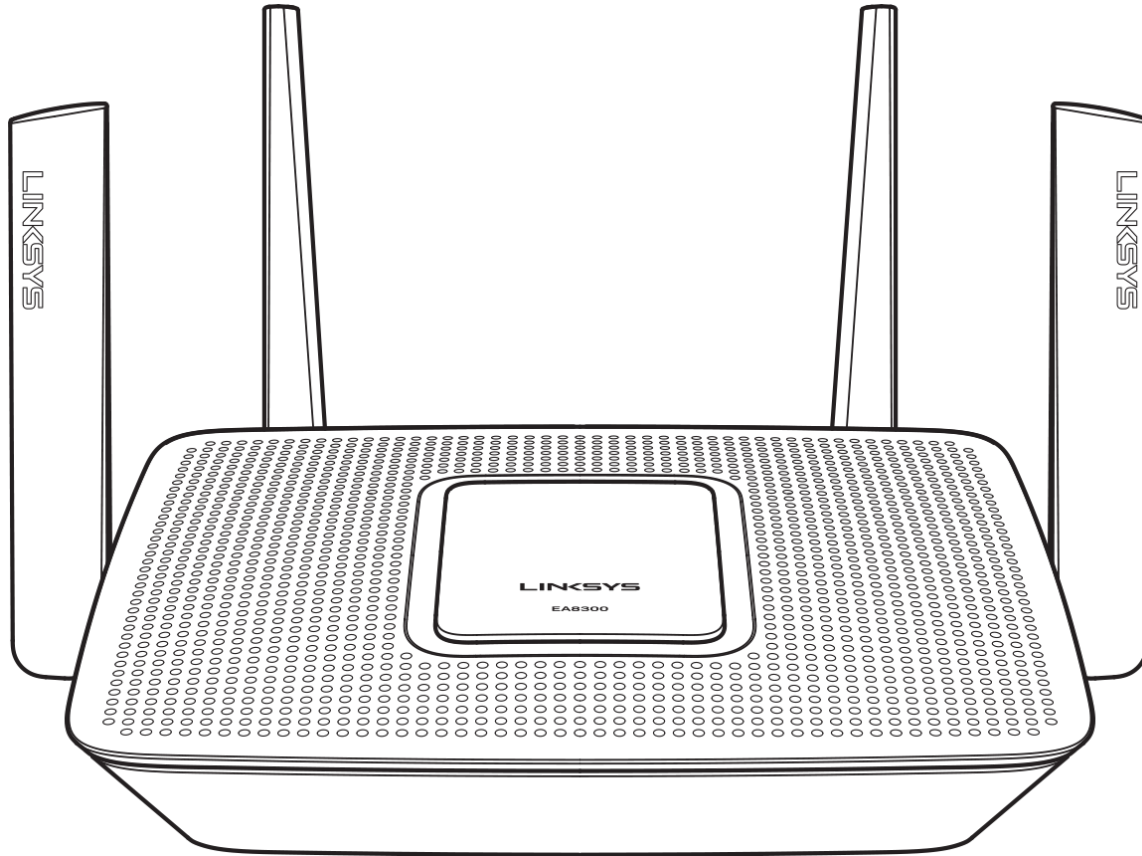
Model EA8300

Contents

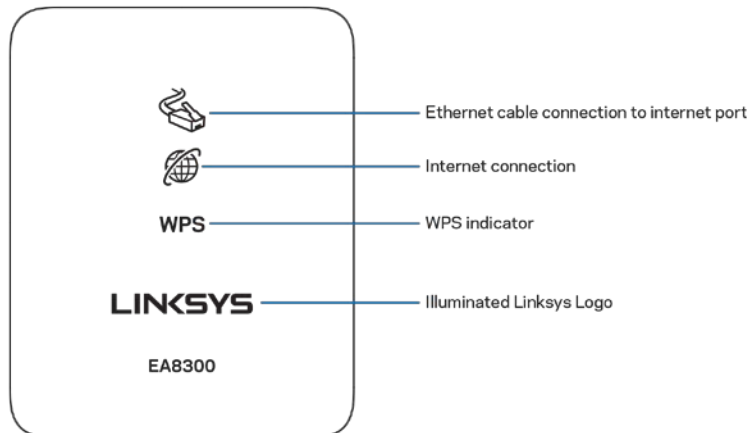
Product Overview	3
Top view	3
System status indicator.....	4
Back view.....	5
Side view.....	6
Setting Up: Basics	7
Where to find more help	7
How to install your router	8
How to Use Linksys Smart Wi-Fi	11
How to connect to Linksys Smart Wi-Fi.....	11
Network Map.....	12
Guest Access.....	12
Parental Controls.....	13
Media Prioritization.....	13
Speed Test.....	14
External Storage.....	14
Connectivity	15
Troubleshooting	15
Wireless.....	16
Security.....	16
Troubleshooting	17
Your router was not successfully set up.....	17
<i>Your Internet cable is not plugged in</i> message.....	18
<i>Cannot access your router</i> message.....	19
After setup.....	21
The internet appears to be unavailable	21
Linksys Smart Wi-Fi does not open in your web browser.....	22
Specifications	23
Linksys EA8300	23
Environmental.....	23

Product Overview

Top view



System status indicator



Ethernet cable connection to Internet port—When lit (orange), indicates a problem with the network cable connected to the Internet (WAN) port.

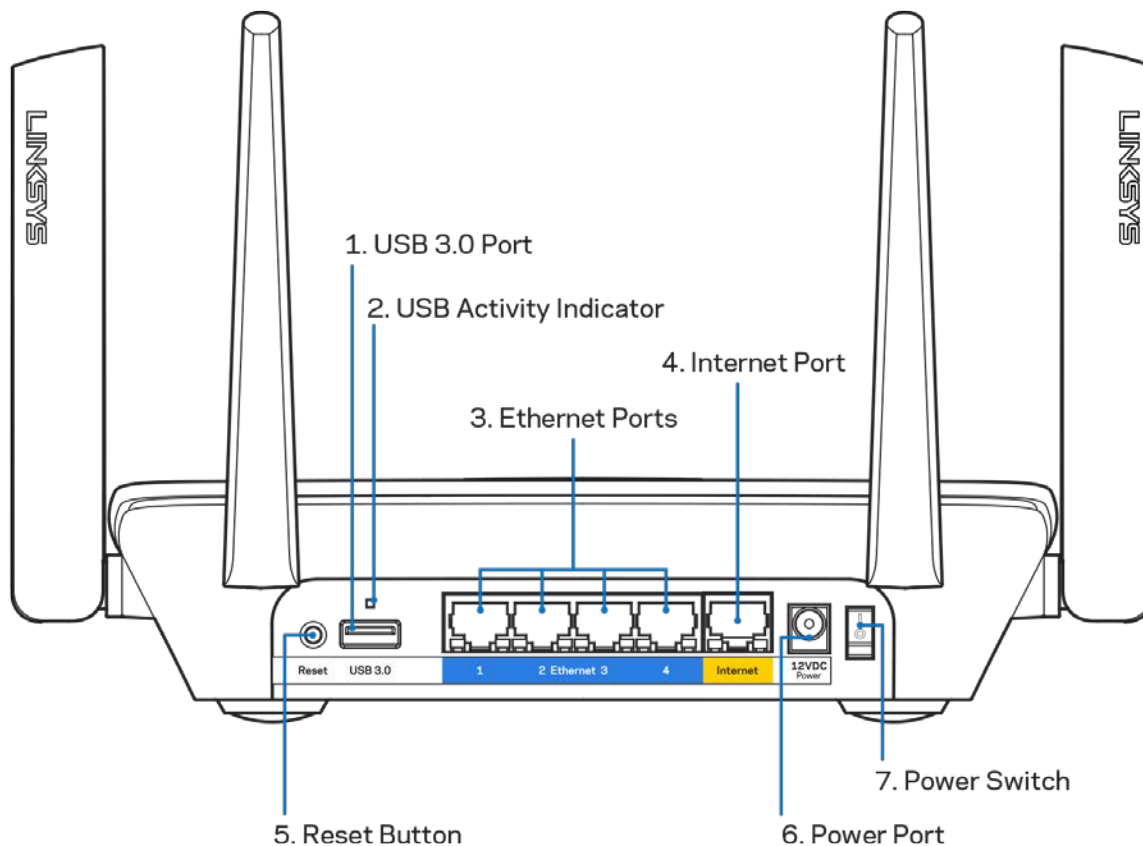
Internet connection—When lit (orange), indicates the router cannot access the internet.

WPS (Wi-Fi Protected Setup™) indicator—The WPS light has four states:

Off	No Wi-Fi Protected Setup activity
Blinking White	Wi-Fi Protected Setup in progress
Solid White	Wi-Fi Protected Setup is successful; remains lit for five seconds
Blinking Orange	Wi-Fi Protected Setup error; blinks for one minute, then goes off

Illuminated Linksys Logo—Logo blinks while the router is starting up. When the logo is solid white, the router is powered on and working correctly.

Back view



USB 3.0 port (1)— Connect and share USB drives on your network or on the internet.

USB activity indicator (2)— Lights indicate data transfer to/from external devices.

Ethernet ports (3)—Connect ethernet cables to these blue gigabit (10/100/1000) ports, and to wired devices on your network.

Note—For best performance, use CAT5e or higher rated cables on the Ethernet ports.

Internet port (4)— Connect an ethernet cable to this yellow gigabit (10/100/1000) port, and to a broadband internet cable/DSL or fiber modem.

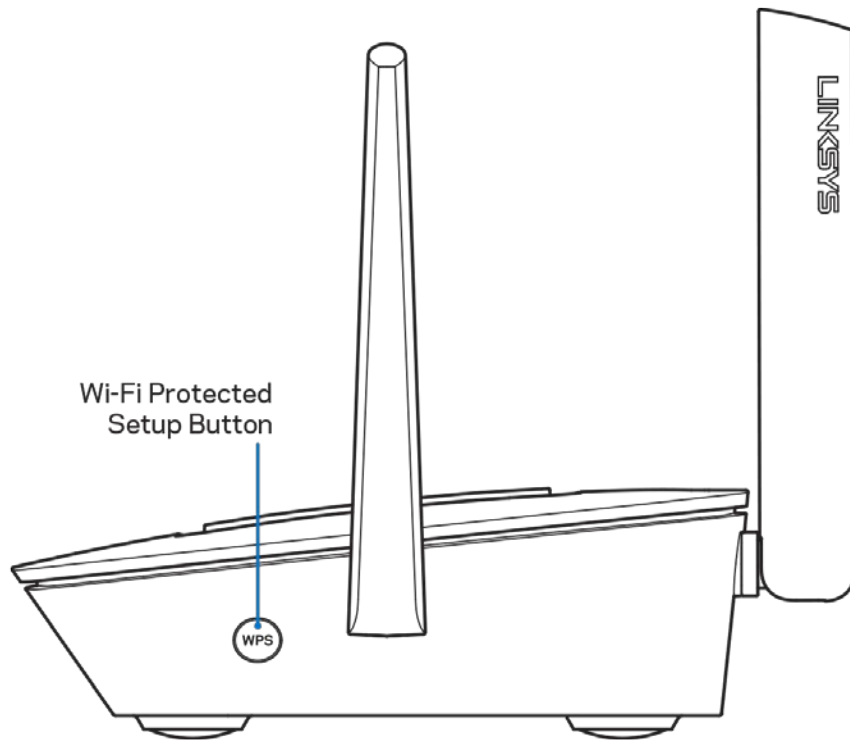
Note—For best performance, use CAT5e or higher rated cable on the Internet port.

Reset button (5)— Press and hold until the illuminated Linksys logo turns off to reset the router to factory settings. You can also restore the factory settings using Linksys Smart Wi-Fi on the internet or mobile app.

Power port (6)—Connect the included AC power adapter.

Power switch (7)—Press | (on) to turn on the router.

Side view



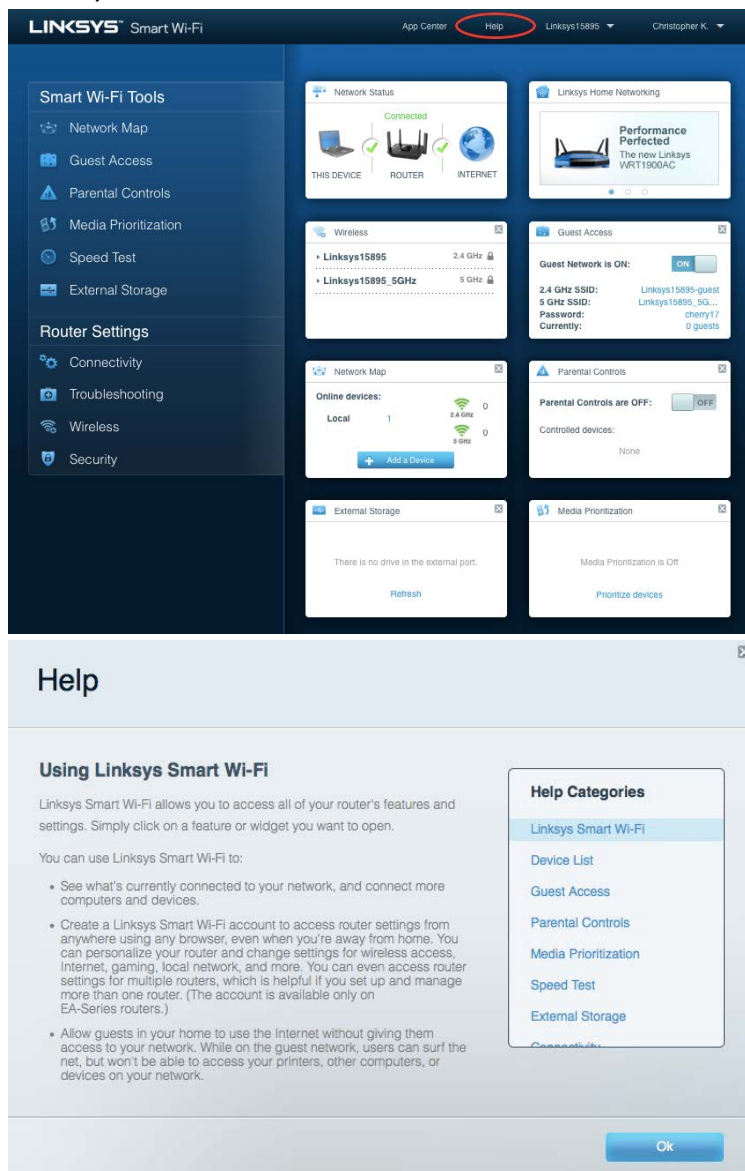
Wi-Fi Protected Setup™ button—Press to connect to WPS-enabled network devices.

Setting Up: Basics

Where to find more help

In addition to this user guide, you can find help at these locations:

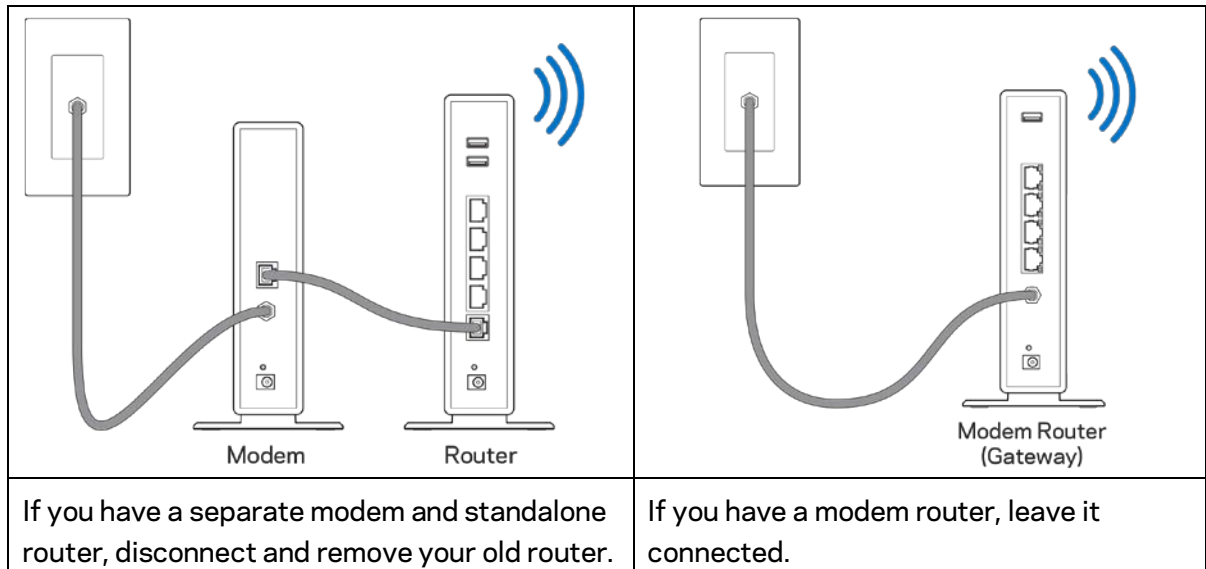
- Linksys.com/support/EA8300 (documentation, downloads, FAQs, technical support, live chat, forums)
- Linksys Smart Wi-Fi help (connect to Linksys Smart Wi-Fi, then click Help at the top of the screen)



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. To complete setup, you will need a computer to visit <http://LinksysSmartWiFi.com> in a web browser.
2. Identify your equipment.



3. Position the antennas straight up and plug in the router to a power source. Make sure the power switch is in the | (on) position.
4. Connect your router to your modem or modem router. Plug one end of the included internet cable to 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. If you have a modem router, plug into any available port.
5. Wait until the illuminated Linksys light on the top of your router stops blinking and is solid white.
6. Connect to the Wi-Fi name shown in the Quick Start Guide that came with your router. (You can change these details later.) If you need help connecting to the network refer to your device documentation at linksys.com/support/EA8300.

Note—You will not have internet access until router setup is complete.

7. Enter <http://LinksysSmartWiFi.com> in a web browser. Follow the on-screen instructions to complete your router setup. You also can type 192.168.1.1 in a browser to start setup.

At the end of setup, follow the on-screen instructions to set up your Linksys Smart Wi-Fi account. Use Linksys Smart Wi-Fi to configure your router from any computer with an internet connection.

Manage your router's settings:

- Change your router's name and password
- Set up guest access
- Configure parental controls
- Connect devices to your Wi-Fi
- Test your internet connection speed

Note—As part of Linksys Smart Wi-Fi account setup, you will be sent a verification e-mail. From your home network, click the link in the email to associate your router with the Linksys Smart Wi-Fi account.

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 Wi-Fi Name	
Wi-Fi Password	
5 GHz ₁ Wi-Fi Name	
Wi-Fi Password	
5 GHz ₂ Wi-Fi Name	
Wi-Fi Password	
Router Password	
2.4 GHz Guest Wi-Fi Name	
5GHz Guest Wi-Fi Name	
Guest Wi-Fi Password (Both share a password.)	
Linksys Smart Wi-Fi Username	
Linksys Smart Wi-Fi Password	

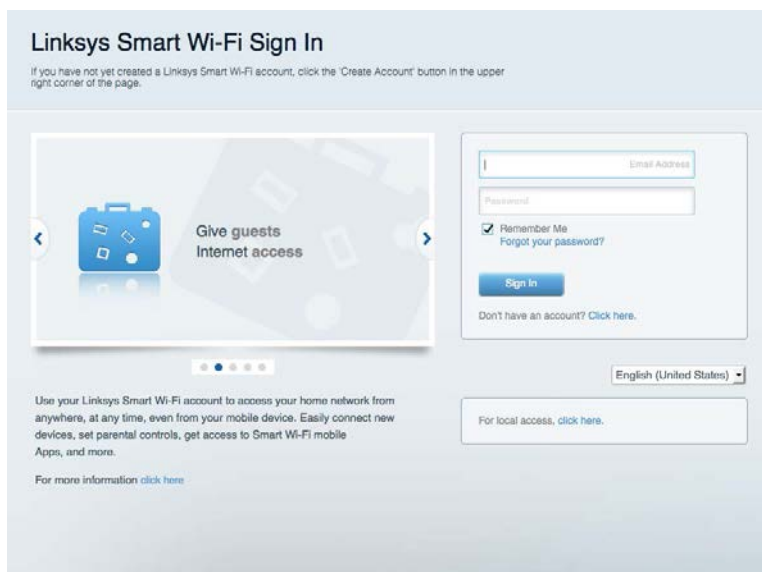
How to Use Linksys Smart Wi-Fi

You can manage your router from anywhere in the world by using Linksys Smart Wi-Fi, but you can also do it directly from your home network. Linksys Smart Wi-Fi may be available for your mobile device, as well. See your device's app store for information.

How to connect to Linksys Smart Wi-Fi

To connect to Linksys Smart Wi-Fi:

1. Open your computer's web browser.
2. Go to <http://LinksysSmartWiFi.com> and log in to your account.



The screenshot shows the Linksys Smart Wi-Fi Sign In page. At the top, it says "Linksys Smart Wi-Fi Sign In" with a note: "If you have not yet created a Linksys Smart Wi-Fi account, click the 'Create Account' button in the upper right corner of the page." Below this is a large banner with a blue suitcase icon and the text "Give guests Internet access". To the right of the banner is a sign-in form with fields for "Email Address" and "Password", a "Remember Me" checkbox, a "Forgot your password?" link, and a "Sign In" button. Below the form is a link: "Don't have an account? Click here." At the bottom right, there is a language dropdown menu set to "English (United States)" and a link: "For local access, click here." At the bottom left, there is a paragraph of text: "Use your Linksys Smart Wi-Fi account to access your home network from anywhere, at any time, even from your mobile device. Easily connect new devices, set parental controls, get access to Smart Wi-Fi mobile Apps, and more." followed by a link: "For more information click here".

If you can't remember your password, click *Forgot your password?* and follow the on-screen instructions to recover it.

Network Map

Lets you display and manage all network devices connected to your router. You can view devices on your main network and your guest network, or display information about each device.



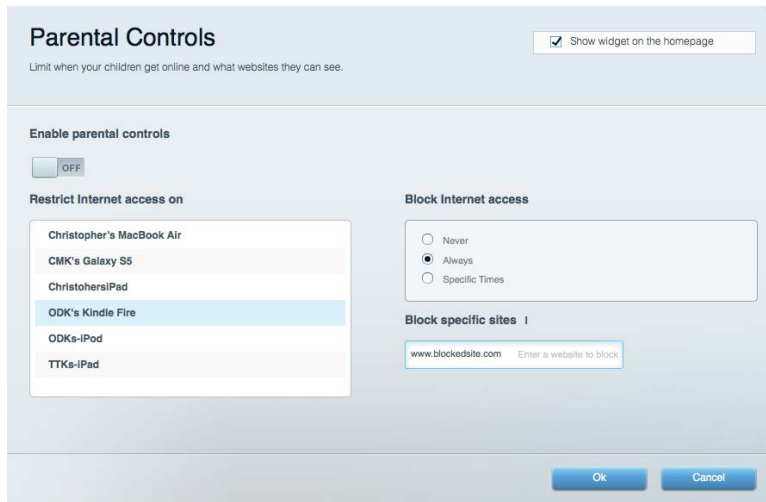
Guest Access

Lets you set up and monitor a network for guests to access Wi-Fi without exposing personal information.

The Guest Access configuration interface includes a "Show widget on the homepage" checkbox. Below this, the "Allow guest access" toggle is set to "ON". A warning box states: "Your guest should first connect to your guest network, open a web browser, and then enter the guest password." The "Guest network names and password" section shows: 2.4 GHz SSID: parlor2.4, Network: Enabled, 5 GHz SSID: parlor5, Network: Enabled, and Guest network password: thefly. The "Total guests allowed" dropdown is set to "5 guests". "Ok" and "Cancel" buttons are at the bottom.

Parental Controls

Lets you block web sites and set internet access times.



Parental Controls ☒ Show widget on the homepage

Limit when your children get online and what websites they can see.

Enable parental controls

☐ OFF

Restrict Internet access on

- Christopher's MacBook Air
- CMK's Galaxy S5
- ChristohersIPad
- ODK's Kindle Fire
- ODKs-iPod
- TTKs-iPad

Block Internet access

☐ Never
☒ Always
☐ Specific Times

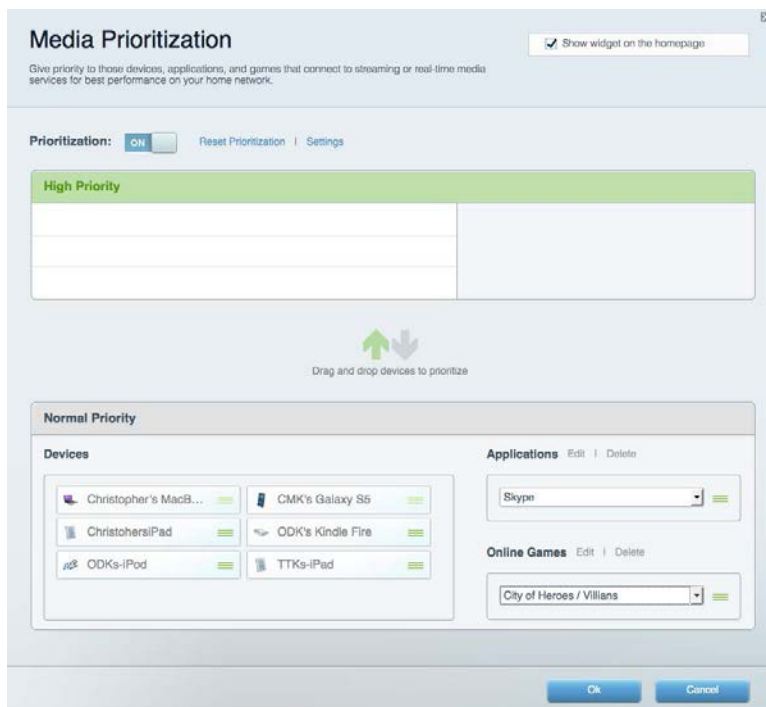
Block specific sites

Enter a website to block

Ok Cancel

Media Prioritization

Lets you set which devices and applications have top priority for your network traffic.



Media Prioritization ☒ Show widget on the homepage

Give priority to those devices, applications, and games that connect to streaming or real-time media services for best performance on your home network.

Prioritization: ☒ ON [Reset Prioritization](#) [Settings](#)

High Priority

Drag and drop devices to prioritize

Normal Priority

Devices

Christopher's MacB...	CMK's Galaxy S5
ChristohersIPad	ODK's Kindle Fire
ODKs-iPod	TTKs-iPad

Applications [Edit](#) [Delete](#)

Skype

Online Games [Edit](#) [Delete](#)

City of Heroes / Villains

Ok Cancel

Speed Test

Lets you test your network's internet connection speed.



External Storage

Lets you access an attached USB drive (not included) and set up file sharing, a media server, and FTP access.

The External Storage configuration interface includes a checkbox 'Show widget on the homepage' which is checked. Below this are four tabs: 'Status', 'Folder Access', 'FTP Server', and 'Media Server'. The 'Status' tab is active, showing the 'External Storage Drive' section with the volume name 'ROUND DRIVE' and a progress bar indicating 'Space used: 886 MB used of 960 MB total.' with 'Safely remove drive' and 'Refresh' buttons. The 'Secure Folder Access is OFF' section shows 'Any user can access content via shared folders.' and lists 'PC access (File explorer): \\192.168.1.1' and 'Mac access (Finder): smb://192.168.1.1'. The 'FTP Server is OFF' section shows 'Content is not accessible to any user via FTP.' and 'FTP server: Disabled'. The 'Media Server (DLNA) is ON' section shows 'Media content is accessible to DLNA clients.' and 'DLNA server: EA6050'. An 'Ok' button is at the bottom right.

Section	Status	Details
External Storage Drive	Connected	Volume name: ROUND DRIVE, Space used: 886 MB used of 960 MB total.
Secure Folder Access	OFF	Any user can access content via shared folders. PC access: \\192.168.1.1, Mac access: smb://192.168.1.1
FTP Server	OFF	Content is not accessible to any user via FTP. FTP server: Disabled
Media Server (DLNA)	ON	Media content is accessible to DLNA clients. DLNA server: EA6050

Connectivity

Lets you view and change basic and advanced network settings.

The screenshot shows the 'Connectivity' settings window. It has a title bar with a close button. Below the title bar is a subtitle 'View and change router settings'. There are five tabs: 'Basic', 'Internet Settings', 'Local Network', 'Advanced Routing', 'VLAN', and 'Administration'. The 'Basic' tab is selected. The 'Network Name and Password' section has an 'Edit' link. It contains fields for '2.4 GHz network name' (arachnid), 'Network password' (peterparker), '5 GHz₁ + 5 GHz₂ network name' (arachnid_5GHz), and 'Network password' (peterparker). The 'Router Password' section has an 'Edit' link and a field for 'Router password' (*****). The 'Router Firmware Update' section has a checkbox for 'Automatic' (checked) and a '(Current Version: 1.1.5.164615)' label, with a 'Check for Updates' button. The 'Time Zone' section has a dropdown menu set to '(GMT-05:00) Eastern Time (USA & Canada)' and a checkbox for 'Automatically adjust for Daylight Savings Time' (checked). The 'Activity Lights' section has an 'ON' button and a text box stating 'Enable/disable activity lights. Power light will remain on.' At the bottom are 'Ok', 'Cancel', and 'Apply' buttons.

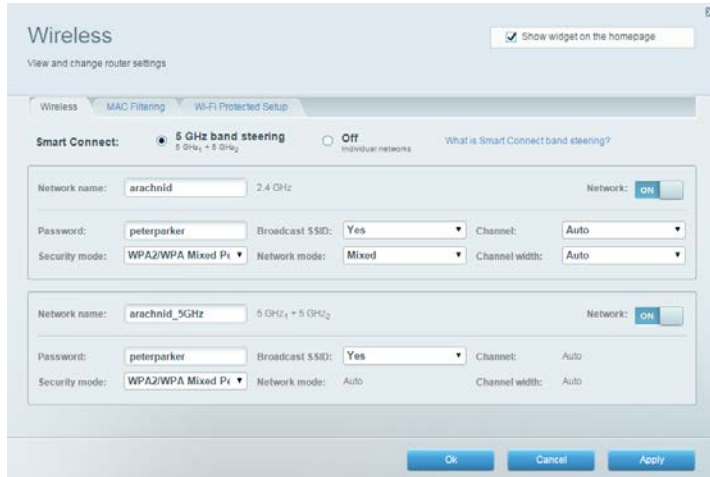
Troubleshooting

Lets you diagnose problems with your router and check the status of the network.

The screenshot shows the 'Troubleshooting' settings window. It has a title bar with a close button. Below the title bar is a subtitle 'Troubleshoot router settings'. There are three tabs: 'Status', 'Diagnostics', and 'Logs'. The 'Diagnostics' tab is selected. The 'Ping IPv4' section has a text field for 'IP or host name', a dropdown for 'Number to ping' (5), and a 'Start to Ping' button. The 'Trace route' section has a text field for 'IP or host name' and a 'Start to Traceroute' button. The 'Reboot' section has a link 'Reboot the router'. The 'Router configuration' section has 'Backup' and 'Restore' buttons. The 'Router Firmware' section has a 'Restore previous firmware' button. The 'Internet Address' section shows 'IPv4: 10.0.0.253' and 'IPv6: 2601:0540:c000:0019:0000:0000:0000:314e', each with a 'Release and Renew' link. The 'Factory reset' section has a link 'Reset to factory default settings'. At the bottom is an 'Ok' button.

Wireless

Lets you view and change your router's wireless network. You can change network names, security mode, password, MAC filtering, and connect devices using Wi-Fi Protected Setup.



The Wireless settings page allows you to configure your router's wireless network. It includes tabs for Wireless, MAC Filtering, and Wi-Fi Protected Setup. The Smart Connect section has a radio button for 5 GHz band steering (selected) and an Off option. Below, there are two network configuration sections for 2.4 GHz and 5 GHz. Each section includes fields for Network name, Password, Broadcast SSID, Security mode, Network mode, Channel, and Channel width. The 2.4 GHz network is named 'arachnid' and the 5 GHz network is named 'arachnid_5GHz'. Both networks have the password 'peterparker' and are set to WPA2/WPA Mixed Pi security. The Network mode for 2.4 GHz is Mixed, and for 5 GHz it is Auto. The Channel and Channel width are set to Auto. At the bottom, there are buttons for Ok, Cancel, and Apply.

Wireless

View and change router settings

Wireless MAC Filtering Wi-Fi Protected Setup

Smart Connect: ☒ 5 GHz band steering ☐ Off

What is Smart Connect band steering?

Network name: arachnid 2.4 GHz Network: ON

Password: peterparker Broadcast SSID: Yes Channel: Auto

Security mode: WPA2/WPA Mixed Pi Network mode: Mixed Channel width: Auto

Network name: arachnid_5GHz 5 GHz 1 + 5 GHz 2 Network: ON

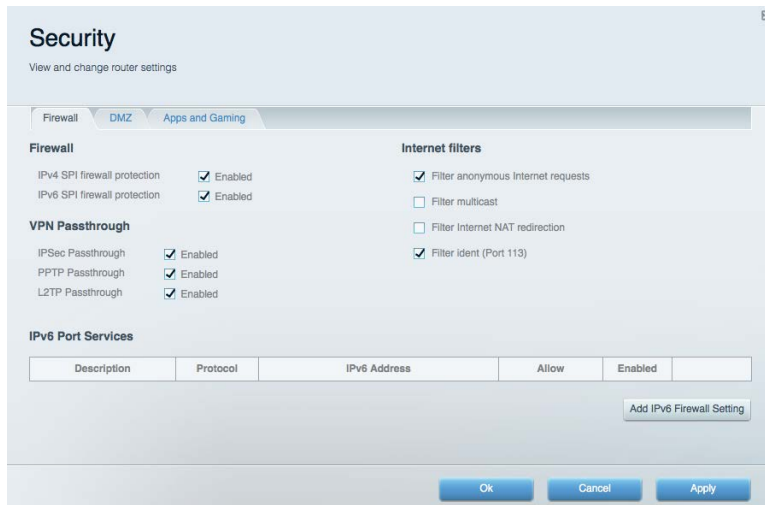
Password: peterparker Broadcast SSID: Yes Channel: Auto

Security mode: WPA2/WPA Mixed Pi Network mode: Auto Channel width: Auto

Ok Cancel Apply

Security

Lets you view and change your router's wireless security. You can set up the firewall, VPN settings, and make custom settings for applications and games.



The Security settings page allows you to configure your router's security. It includes tabs for Firewall, DMZ, and Apps and Gaming. The Firewall section has checkboxes for IPv4 SPI firewall protection and IPv6 SPI firewall protection, both of which are enabled. Below, there are sections for VPN Passthrough (IPSec, PPTP, L2TP) and Internet filters. The Internet filters section has checkboxes for Filter anonymous Internet requests, Filter multicast, Filter Internet NAT redirection, and Filter ident (Port 113). The IPv6 Port Services section has a table with columns for Description, Protocol, IPv6 Address, Allow, and Enabled. At the bottom, there are buttons for Ok, Cancel, and Apply.

Security

View and change router settings

Firewall DMZ Apps and Gaming

Firewall

IPv4 SPI firewall protection ☒ Enabled

IPv6 SPI firewall protection ☒ Enabled

VPN Passthrough

IPSec Passthrough ☒ Enabled

PPTP Passthrough ☒ Enabled

L2TP Passthrough ☒ Enabled

Internet filters

☒ Filter anonymous Internet requests

☐ Filter multicast

☐ Filter Internet NAT redirection

☒ Filter ident (Port 113)

IPv6 Port Services

Description	Protocol	IPv6 Address	Allow	Enabled

Add IPv6 Firewall Setting

Ok Cancel Apply

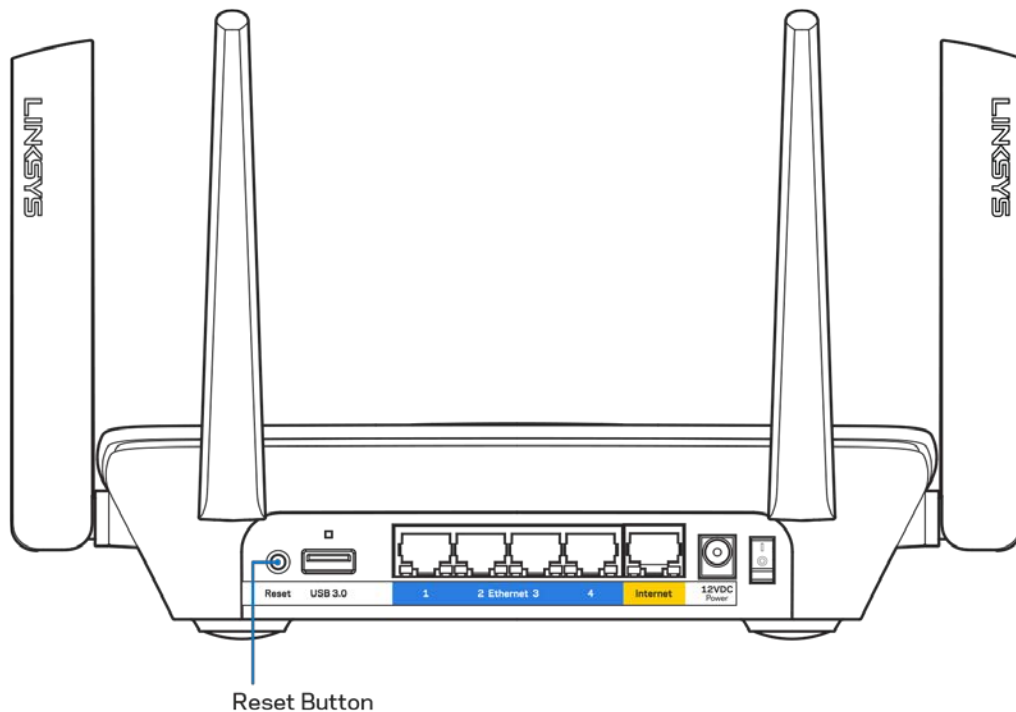
Troubleshooting

You can find more help from our award-winning customer support at linksys.com/support/EA8300.

Your router was not successfully set up

If Linksys Smart Wi-Fi did not complete the setup, 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 the blue MU-MIMO indicators start blinking (about 10 seconds). Install the router again.

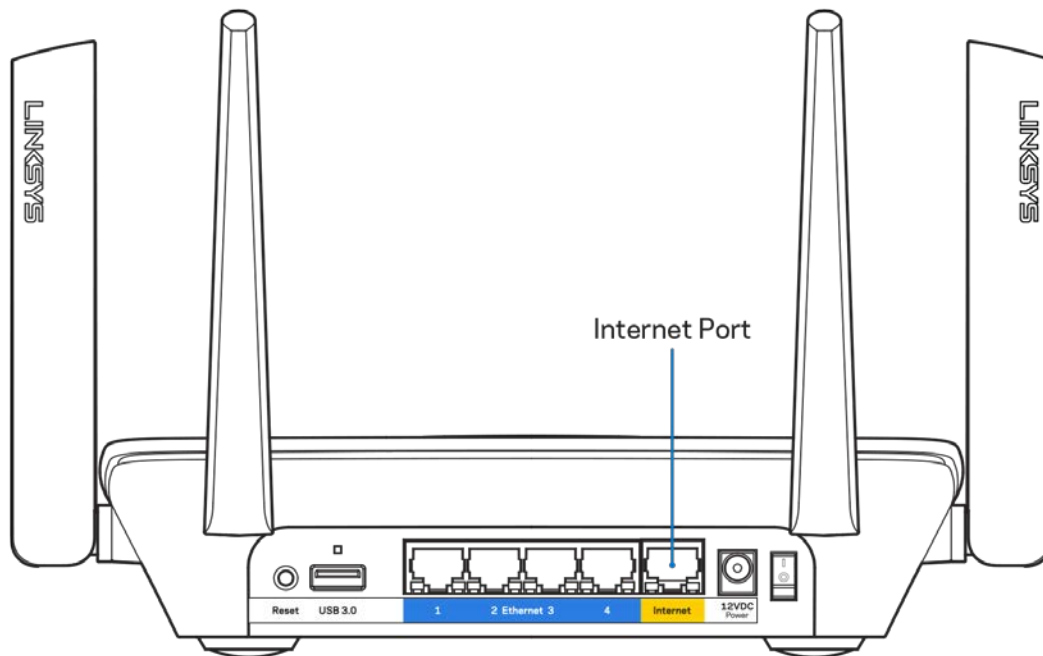


- Temporarily disable your computer's firewall (see the security software's instructions for help). Install the router again.
- If you have another computer, use that computer to install the router again.

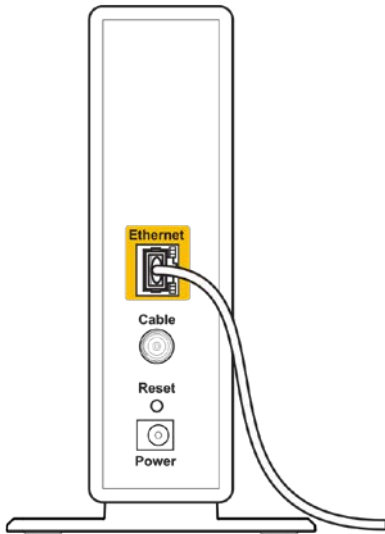
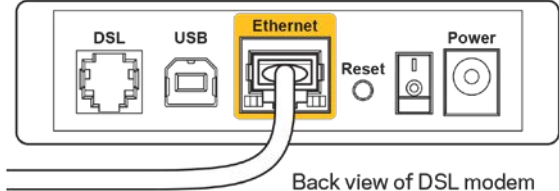
Your Internet cable is not plugged in message

If you get a “Your Internet cable is not plugged in” message when trying to set up your router, follow these troubleshooting steps.

- 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 it has a power switch, make sure that it is set to the ON or | (as opposed to O) position.

 <p>Back view of cable modem</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 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. 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 EA8300 router, Damaged_Beez2.4 in this example, is shown selected.

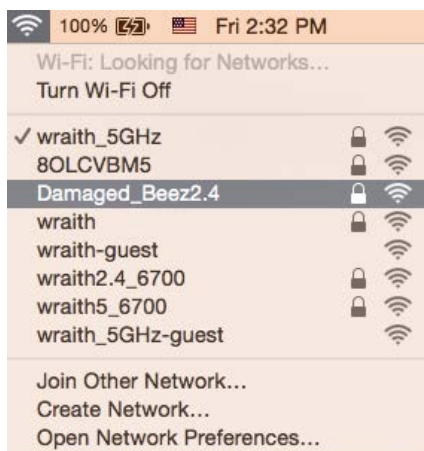


3. If you are prompted to enter a network security key, type your password (security key) into the network security key field. Click **OK**.
4. Your computer will connect to the network, and you should be able to access the router.

**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 EA8300 router, Damaged_Beez2.4 in this example, is shown selected.



3. Click the wireless network name of your Linksys EA8300 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 illuminated Linksys logo is on. Wait two minutes before trying to connect to the internet from a computer.

To reboot your router using Linksys Smart Wi-Fi, do the following:

1. Log in to Linksys Smart Wi-Fi. (See “How to connect to Linksys Smart Wi-Fi” on page [11](#).)
2. Under *Router Settings*, click *Troubleshooting*.
3. Click the *Diagnostics* tab.
4. Under *Reboot*, click Reboot.



5. Click **Yes**. The router will reboot. While the router is rebooting, all connected devices will lose their internet connection, and will automatically reconnect when the router is ready again.

Linksys Smart Wi-Fi does not open in your web browser

The latest versions of Google Chrome™, Firefox®, Safari® (for Mac® and iPad®), Microsoft Edge, and Internet Explorer® version 8 and newer work with Linksys Smart Wi-Fi.

Specifications

Linksys EA8300

Model Name	Max-Stream AC2200 MU-MIMO Tri-Band Router
Model Number	EA8300
Switch Port Speed	10/100/1000 Mbps (Gigabit Ethernet)
Radio Frequency	2.4 GHz and 5 GHz (x2)
# of Antennas	4 external adjustable antennas (non-detachable)
Ports	USB 3.0, Ethernet (1-4), Internet, Power
Buttons	Wi-Fi Protected Setup, Power, Reset
Lights	Top panel: Illuminated Linksys logo , Wi-Fi Protected Setup, Internet connection, Network cable connection to internet port Back panel: USB, Ethernet (1-4), Internet
UPnP	Supported
Security Features	WEP, WPA2, RADIUS
Security Key Bits	Up to 128-bit encryption
Storage File System Support	FAT, NTFS, and HFS+
Browser Support	Latest versions of Google Chrome™, Firefox®, Safari® (for Mac® and iPad®), Microsoft Edge and Internet Explorer® version 8 and newer

Environmental

Dimensions	213.7mm x 161.8mm x 54.8mm (without antennas)
Unit Weight	608 g
Power	12V, 2A
Certifications	FCC, IC, CE, Wi-Fi (a/b/g/n/ac)
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

Specifications are subject to change without notice.

Notes:

For regulatory, warranty, and safety information, see the CD that came with your router or go to Linksys.com/support/EA8300.

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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