

LINKSYS™

PERFORMANCE PERFECTED™

User Guide

MAX-STREAM™

AC-1900

MU-MIMO

GIGABIT ROUTER

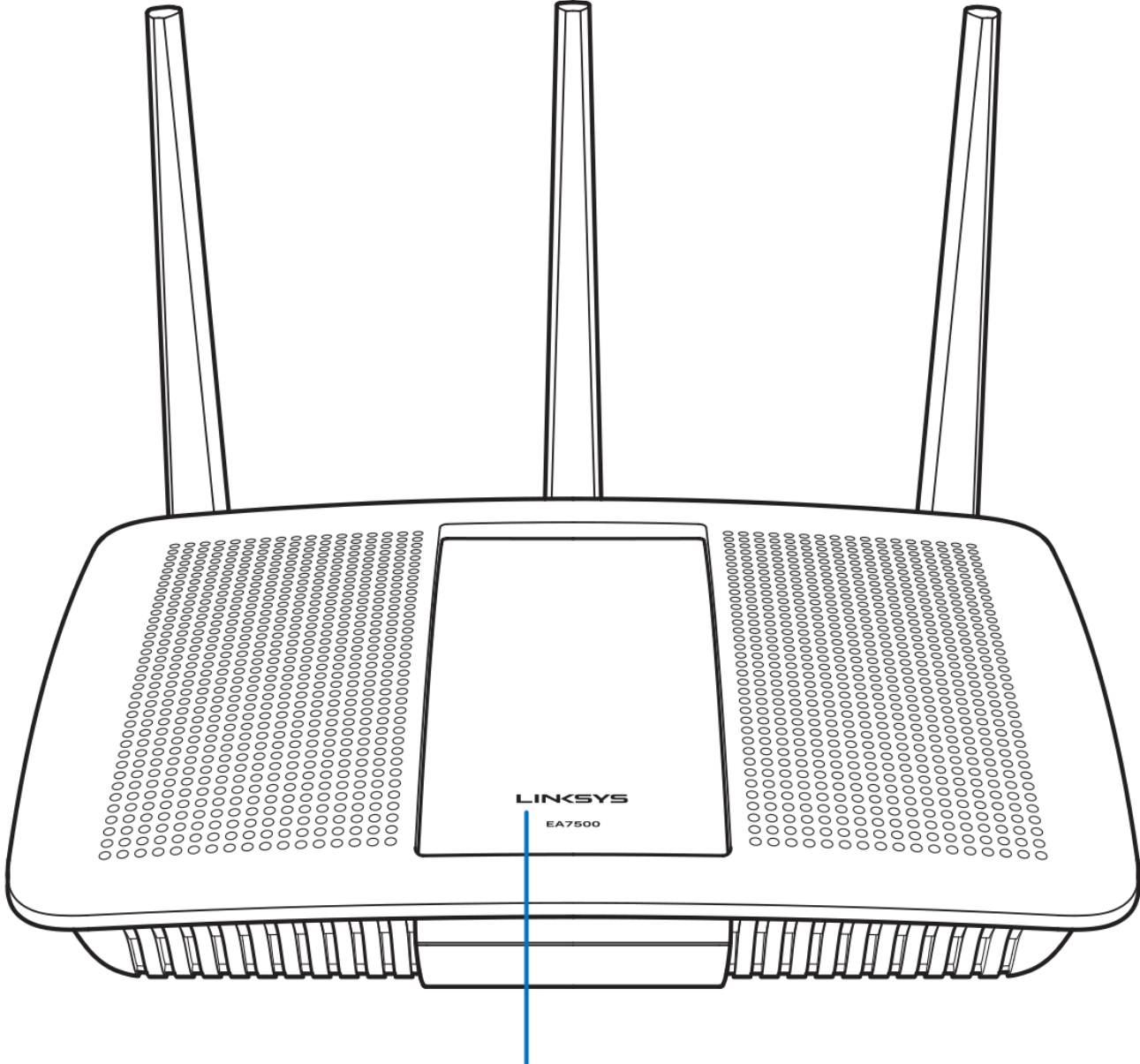
Model # EA7500

Contents

Product Overview	3
Top view	3
Back view.....	4
Setting Up: Basics	6
Where to find more help	6
How to install your router	6
How to Use Linksys Smart Wi-Fi	9
How to connect to Linksys Smart Wi-Fi.....	9
Network Map.....	10
Guest Access.....	10
Parental Controls.....	11
Media Prioritization.....	11
Speed Test.....	12
External Storage.....	12
Connectivity	13
Troubleshooting.....	13
Wireless.....	14
Security.....	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
Linksys Smart Wi-Fi does not open in your web browser.....	19
Specifications	20
Linksys EA7500.....	20
Environmental.....	20

Product Overview

Top view

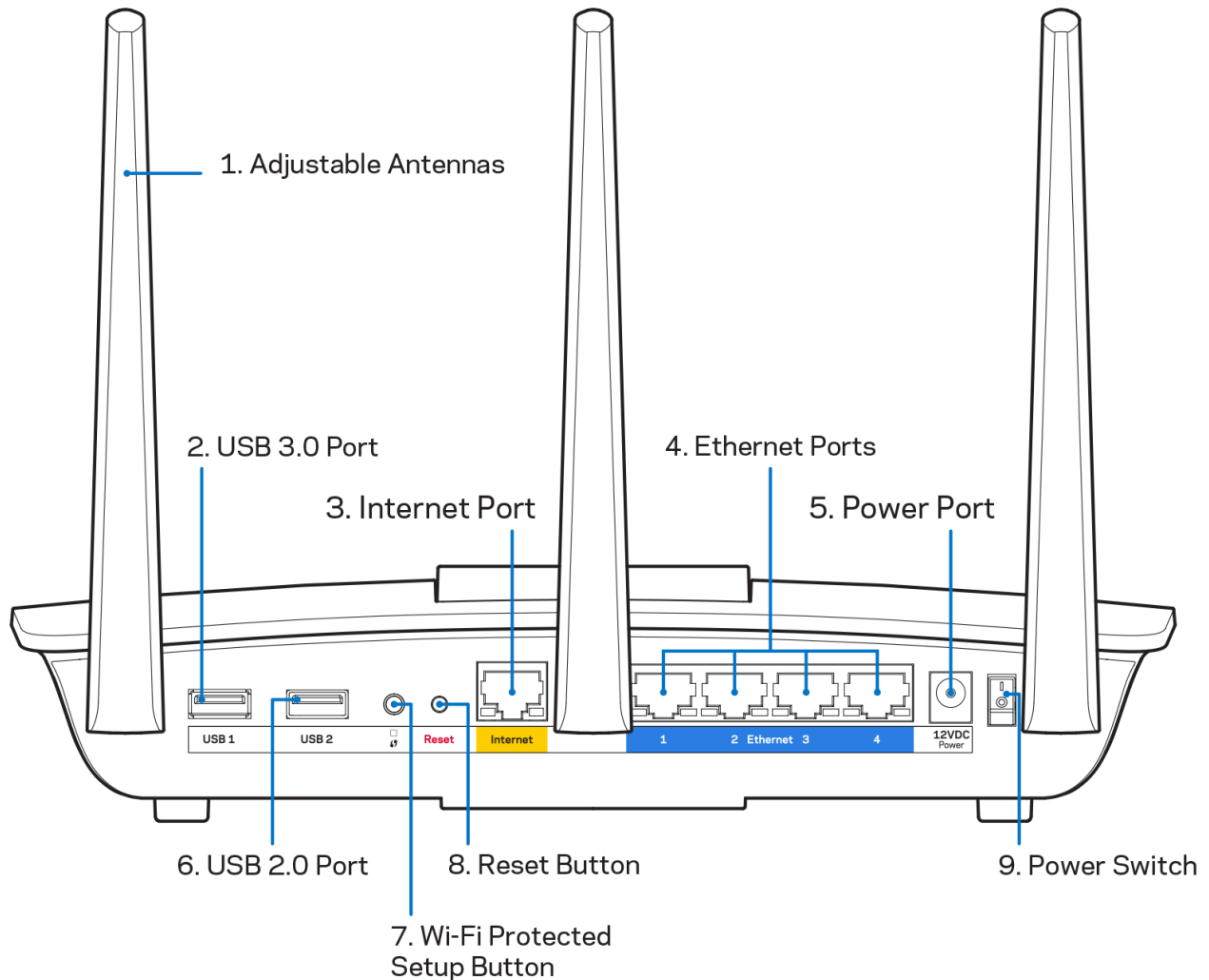


Illuminated Linksys Logo

Illuminated Linksys logo—The Linksys logo stays on steadily while connected to the Internet. It flashes or pulses slowly during startup, self-testing and firmware upgrades. It flashes quickly when indicating connection errors.



Back view



Adjustable antennas (1)—For best performance, position the antennas vertically as shown in the drawing.

USB 3.0 port (2)—Connect and share a USB drive or USB printer on your network or on the Internet.

Internet port (3)—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 cables on the Internet ports.

Ethernet ports (4)—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.

Power port (5)—Connect the included AC power adapter.

USB 2.0 port (6)—Connect and share a USB drive or USB printer on your network or on the Internet.

Wi-Fi Protected Setup™ button (7)—Press to configure wireless security on Wi-Fi Protected Setup-enabled network devices.

Reset button (8)—Press and hold for until the power LED starts flashing 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.

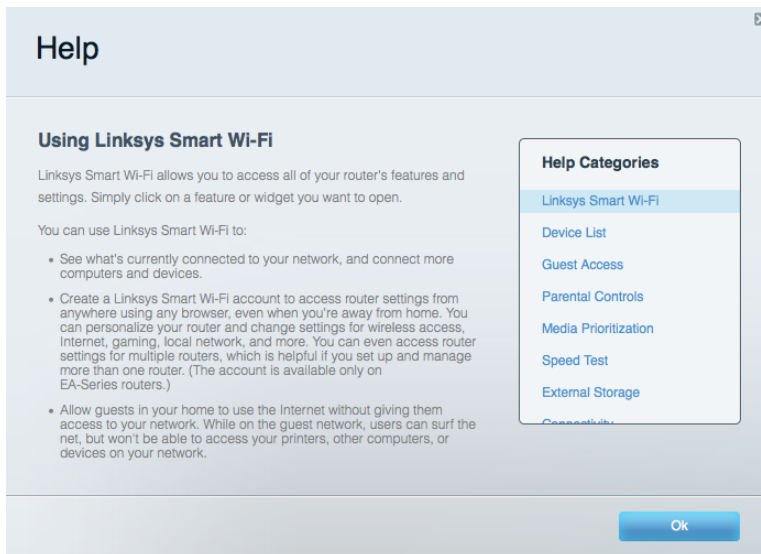
Power switch (9)—Press | (on) to turn on the router.

Setting Up: Basics

Where to find more help

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

- Linksys.com/support/EA7500 (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. If replacing an existing router, disconnect that router first.
2. Attach antennas and turn them up. Plug in your router to a power source and press the power switch to | (on).
3. Connect the Internet cable from your modem to the yellow Internet port on your router. Wait until the indicator light on your router is solid.
4. Connect to the secure wireless name shown in the Quick Start Guide that came with your router. (You can change the network name and password later.) 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. Open a web browser to launch the Linksys Smart Wi-Fi Router setup instructions. If you don't see the instructions, type linksyssmartwifi.com in the address bar.

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 network
- 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 this page, then record your router and account settings in the table below 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	
Linksys Smart Wi-Fi Username	
Linksys Smart Wi-Fi Password	



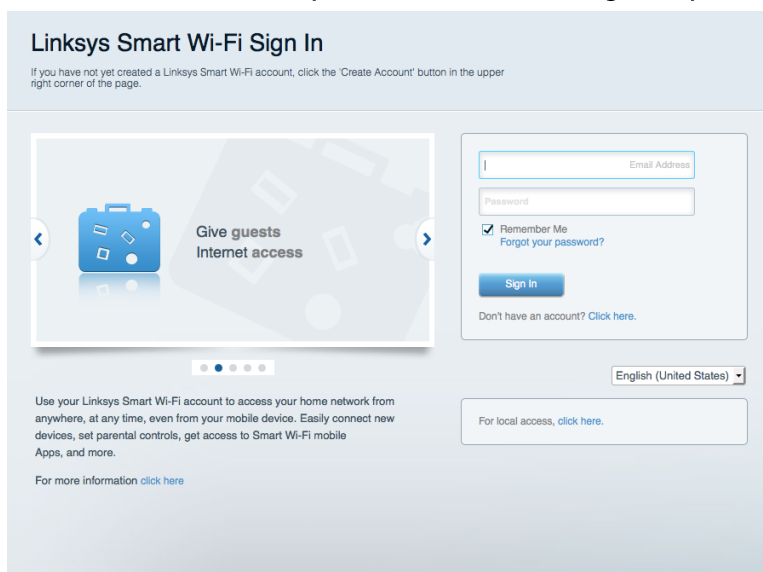
How to Use Linksys Smart Wi-Fi

You can configure your router from anywhere in the world by using Linksys Smart Wi-Fi, but you can also configure your router 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 www.linksysmartwifi.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" and includes 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 (checked), and a "Forgot your password?" link. A blue "Sign In" button is below the form. Below the form is a language dropdown menu set to "English (United States)" and a link for "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 "For more information click here" link.

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

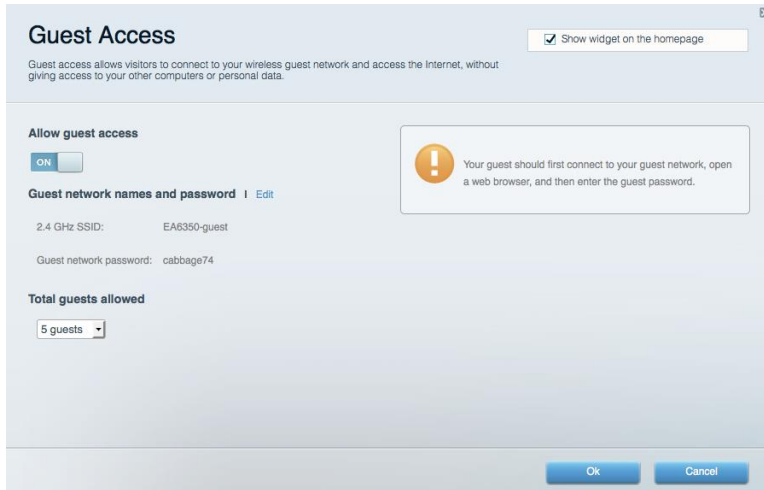
Network Map

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.



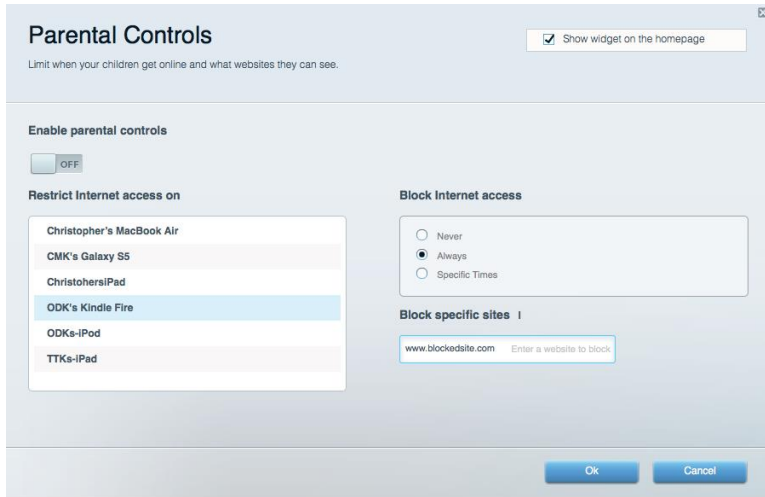
Guest Access

Lets you configure and monitor a network that guests can use without accessing all of your network resources.



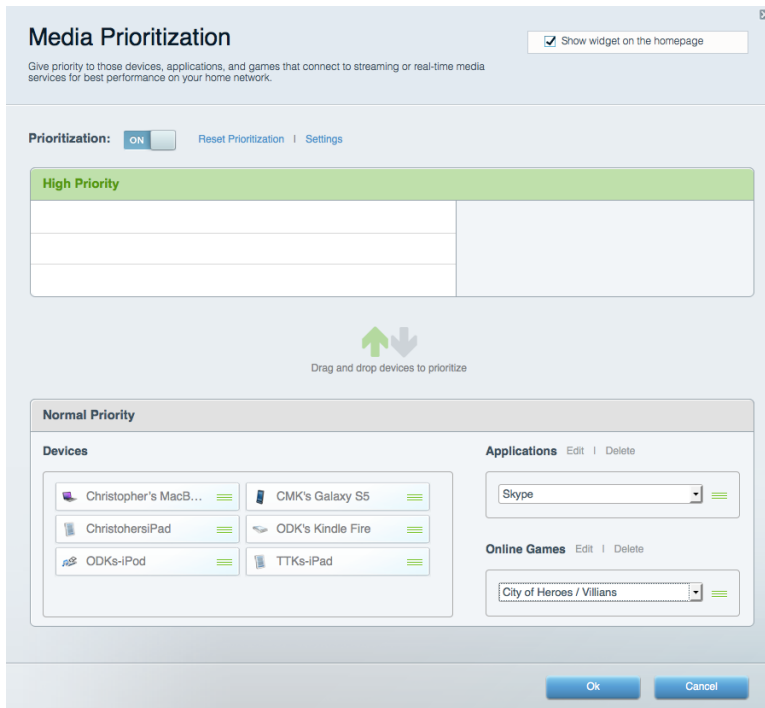
Parental Controls

Lets you block web sites and set Internet access times.



Media Prioritization

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



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 screenshot shows the 'External Storage' configuration page with the following settings:

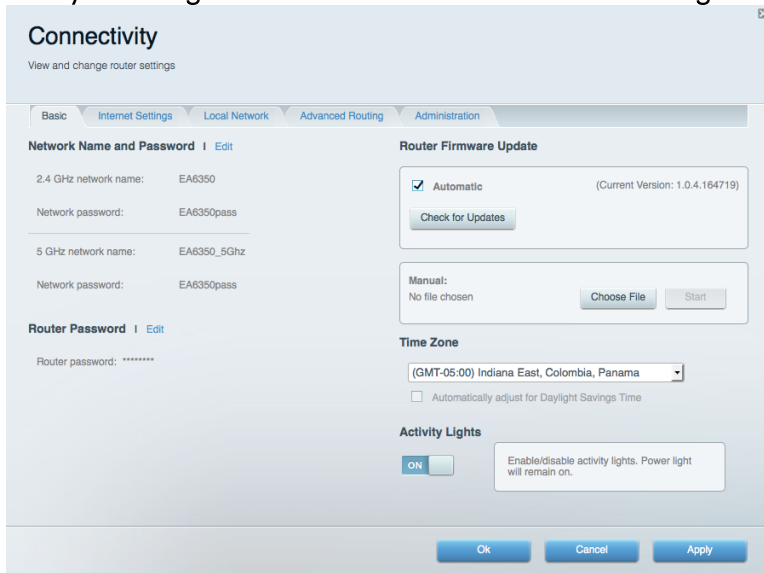
- External Storage Drive:** Volume name: ROUND DRIVE. Space used: 856 MB used of 959 MB total. Buttons: 'Safely remove drive', 'Refresh'.
- Secure Folder Access is OFF:** Any user can access content via shared folders. Access paths: PC access (File explorer): \\192.168.1.1; Mac access (Finder): smb://192.168.1.1.
- FTP Server is OFF:** Content is not accessible to any user via FTP. Status: FTP server: Disabled.
- Media Server (DLNA) is ON:** Media content is accessible to DLNA clients. DLNA server: EA6350.

The interface includes tabs for 'Status', 'Folder Access', 'FTP Server', and 'Media Server', and an 'Ok' button at the bottom right.



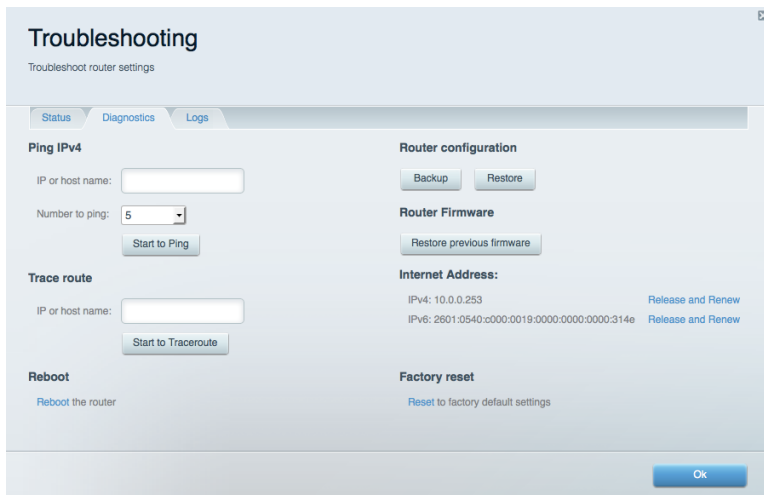
Connectivity

Lets you configure basic and advanced network settings.



Troubleshooting

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



Wireless

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

The screenshot shows the 'Wireless' configuration page. At the top, there is a checkbox 'Show widget on the homepage' which is checked. Below this, there are three tabs: 'Wireless', 'MAC Filtering', and 'Wi-Fi Protected Setup'. The 'Wireless' tab is active. The page is divided into two sections for 2.4 GHz and 5 GHz networks. Each section has a 'Network' toggle switch set to 'ON'. The 2.4 GHz section has a network name of 'EA6350', password 'EA6350pass', broadcast SSID 'Yes', channel 'Auto', security mode 'WPA2/WPA Mixed Pers', network mode 'Mixed', and channel width 'Auto'. The 5 GHz section has a network name of 'EA6350_5Ghz', password 'EA6350pass', broadcast SSID 'Yes', channel 'Auto', security mode 'WPA2/WPA Mixed Pers', network mode 'Mixed', and channel width '80 MHz'. At the bottom, there are 'Ok', 'Cancel', and 'Apply' buttons.

Security

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

The screenshot shows the 'Security' configuration page. At the top, there is a checkbox 'Show widget on the homepage' which is checked. Below this, there are three tabs: 'Firewall', 'DMZ', and 'Apps and Gaming'. The 'Firewall' tab is active. The page is divided into several sections: 'Firewall' with 'IPv4 SPI firewall protection' and 'IPv6 SPI firewall protection' both checked and 'Enabled'; 'VPN Passthrough' with 'IPSec Passthrough', 'PPTP Passthrough', and 'L2TP Passthrough' all checked and 'Enabled'; 'Internet filters' with 'Filter anonymous Internet requests' checked, 'Filter multicast' unchecked, 'Filter Internet NAT redirection' unchecked, and 'Filter ident (Port 113)' checked; and 'IPv6 Port Services' which is a table with columns for Description, Protocol, IPv6 Address, Allow, and Enabled. Below the table is an 'Add IPv6 Firewall Setting' button. At the bottom, there are 'Ok', 'Cancel', and 'Apply' buttons.

Description	Protocol	IPv6 Address	Allow	Enabled



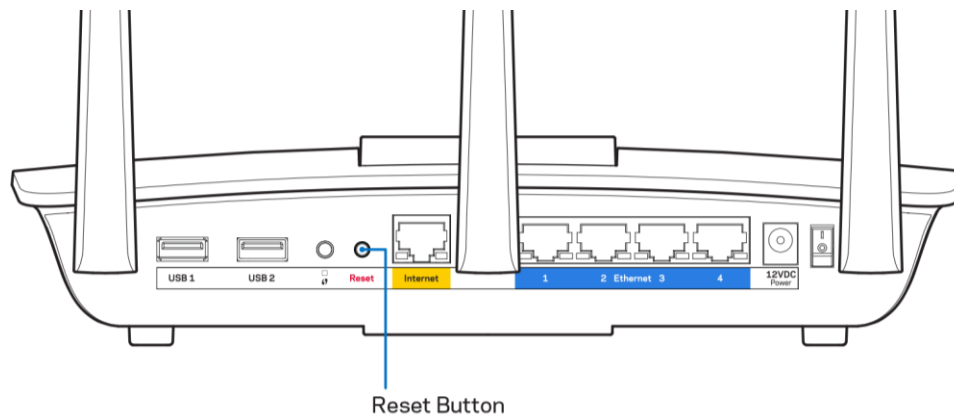
Troubleshooting

You can find more help from our award-winning customer support at Linksys.com/support/EA7500.

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 LED starts blinking (about 10 seconds). Install the router again.

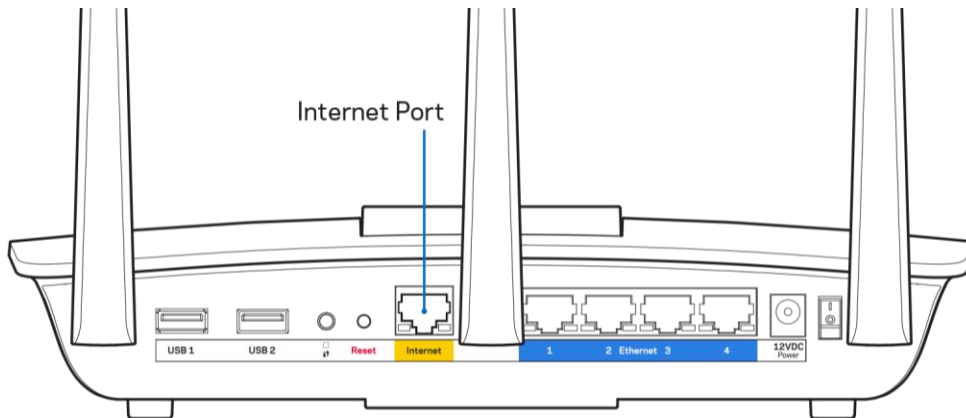


- Temporarily disable your computer's firewall (see the security software's instructions for help). Install the router again.
- If you have another computer, use that computer to install the router again.

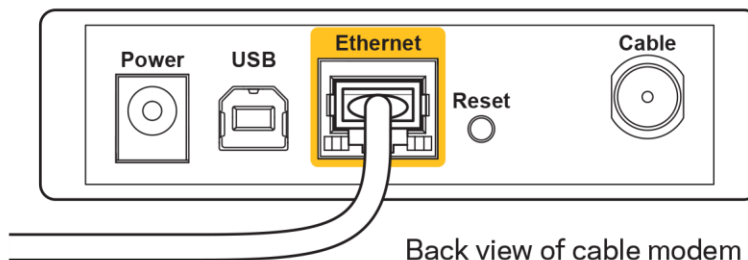
Your Internet cable is not plugged in message

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

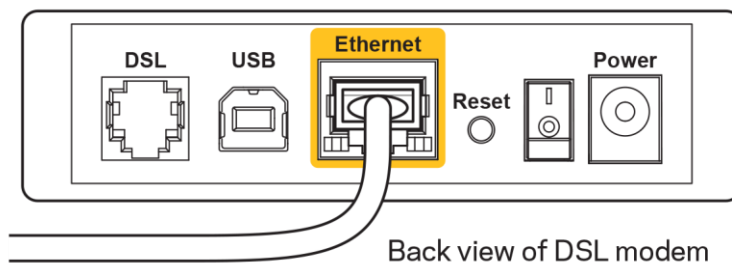
- Make sure that an Ethernet or Internet cable (or a cable like the one supplied with your router) is securely connected to the yellow Internet port on the back of the router and to the appropriate port on your modem. This port on the modem is usually labeled Ethernet, but may be named Internet or WAN.



- 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 I (as opposed to O) position.
- 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 EA7500 router, `Damaged_Beez2.4` in this example, is shown selected.



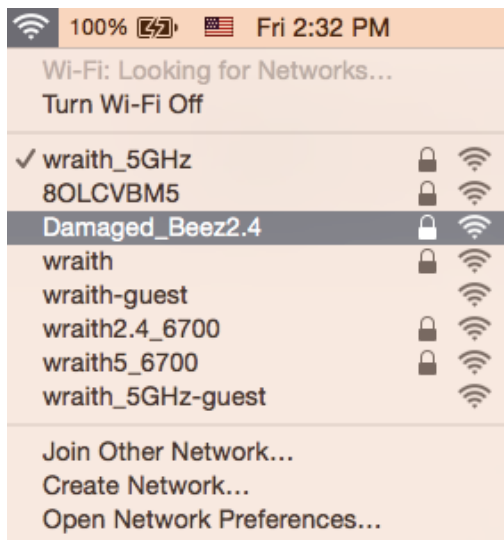
3. If you are prompted to enter a network security key, type your password (security key) into the network security key field. Click **OK**.

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. Linksys Smart Wi-Fi has automatically assigned your network a name.
2. In the example below, the computer was connected to another wireless network named wraith_5GHz. The wireless network name of the Linksys EA7500 router, Damaged_Beez2.4 in this example, is shown selected.



3. Click the wireless network name of your Linksys EA7500 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 power indicator stops blinking. 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 9.)
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 EA7500

Model Name	Linksys Max-Stream AC 1900 MU-MIMO Gigabit Router
Model Number	EA7500
Switch Port Speed	10/100/1000 Mbps (Gigabit Ethernet)
Radio Frequency	2.4 GHz and 5 GHz
# of Antennas	3 detachable external adjustable antennas
Ports	Power, USB 2.0, USB 3.0, Internet, Ethernet (1-4), R-SMA antenna (3)
Buttons	Reset, Wi-Fi Protected Setup, Power
LEDs	Top panel: illuminated Linksys logo Back panel: Internet, Ethernet (1-4)
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 work with Linksys Smart Wi-Fi

Environmental

Dimensions	10.12" x 7.24" x 2.2" (257 x 184 x 56 mm) without antennas
Unit Weight	20.74 oz. (588 g)
Power	12V, 3.5A
Certifications	FCC, IC, CE, Wi-Fi a/b/g/n/draft ac, Windows 7, Windows 8, DLNA
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/ea7500.

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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