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› [Linksys](#) /

› [Linksys EA9500 Max-Stream AC5400 MU-MIMO Gigabit Router User Manual](#)

Linksys EA9500

Linksys EA9500 Max-Stream AC5400 MU-MIMO Gigabit Router User Manual

Model: EA9500

1. INTRODUCTION

This user manual provides detailed instructions for the Linksys EA9500 Max-Stream AC5400 MU-MIMO Gigabit Router. The EA9500 is designed to provide high-speed Wi-Fi connectivity across multiple devices simultaneously, utilizing Tri-Band technology and MU-MIMO capabilities. This document covers the physical setup, initial configuration, operational guidelines, maintenance tips, and troubleshooting steps to ensure optimal performance of your router.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Linksys Max-Stream AC5400 MU-MIMO Gigabit Router
- Power Adapter
- Ethernet Cable
- Quick Start Guide (not included in this digital manual)

3. PRODUCT OVERVIEW

3.1 Front View



Figure 1: Front view of the Linksys EA9500 router. This image displays the router's top surface with ventilation grilles, a central Linksys logo, and eight adjustable external antennas. The central panel illuminates to indicate operational status.

The front of the Linksys EA9500 router features a series of LED indicators that provide information about the router's status, including power, internet connectivity, and Wi-Fi activity for each band. The eight external antennas are designed to optimize wireless signal coverage.

3.2 Rear View (Ports and Buttons)



Figure 2: Rear view of the Linksys EA9500 router. This image highlights the various ports and buttons located on the back panel, including USB ports, Ethernet ports, the Internet (WAN) port, power input, and the power switch.

The rear panel of the EA9500 router provides all necessary connection points:

- **USB 3.0 Port (USB 1):** For connecting external storage devices or printers.
- **USB 2.0 Port (USB 2):** For connecting external storage devices or printers.

- **Ethernet Ports (1-8):** Eight Gigabit Ethernet ports for wired connections to computers, gaming consoles, smart TVs, and other network devices.
- **Internet Port (WAN):** Connects to your modem for internet access.
- **Power Input (12VDC):** Connects to the included power adapter.
- **Power Switch:** Turns the router on or off.
- **Reset Button:** Recessed button to restore factory default settings (use a paperclip, press and hold for 10 seconds).
- **WPS Button:** For easy connection of WPS-compatible devices.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Linksys EA9500 router:

1. **Unpack the Router:** Carefully remove the router and all accessories from the packaging.
2. **Position the Router:** Place the router in a central location in your home or office, away from obstructions and devices that may cause interference (e.g., cordless phones, microwave ovens).
3. **Connect to Modem:**
 - Power off your modem.
 - Connect one end of the included Ethernet cable to the Internet (WAN) port on the back of the EA9500 router.
 - Connect the other end of the Ethernet cable to the Ethernet port on your modem.
4. **Connect Power:**
 - Connect the power adapter to the 12VDC power input port on the router.
 - Plug the other end of the power adapter into a power outlet.
 - Turn on the router using the power switch.
5. **Power On Modem:** Power on your modem and wait for it to establish an internet connection (this may take a few minutes).
6. **Initial Configuration:**
 - Connect a computer or mobile device to the router's Wi-Fi network (SSID and password are typically found on a label on the bottom of the router) or via an Ethernet cable to one of the Gigabit Ethernet ports.
 - Open a web browser and navigate to linksysmartwifi.com or the default IP address (e.g., 192.168.1.1).
 - Follow the on-screen instructions to complete the setup process, including setting up your Wi-Fi network name (SSID) and password, and creating an administrator password for the router.
 - Alternatively, download and use the Linksys App for guided setup.

SIMPLE SETUP THROUGH LINKSYS APP

The easy-to-use Linksys App gives you quick access to network setup, guest access, device prioritization and more.



Figure 3: The Linksys App interface. This image shows the "Device Prioritization" screen within the app, illustrating how users can manage and prioritize connected devices for optimal network performance.

5. OPERATING INSTRUCTIONS

The Linksys EA9500 router offers advanced features for an optimized network experience.

5.1 Tri-Band Wi-Fi

BANDWIDTH FOR 25+ DEVICES

Tri-bands provide the fastest WiFi speeds for all of your devices.

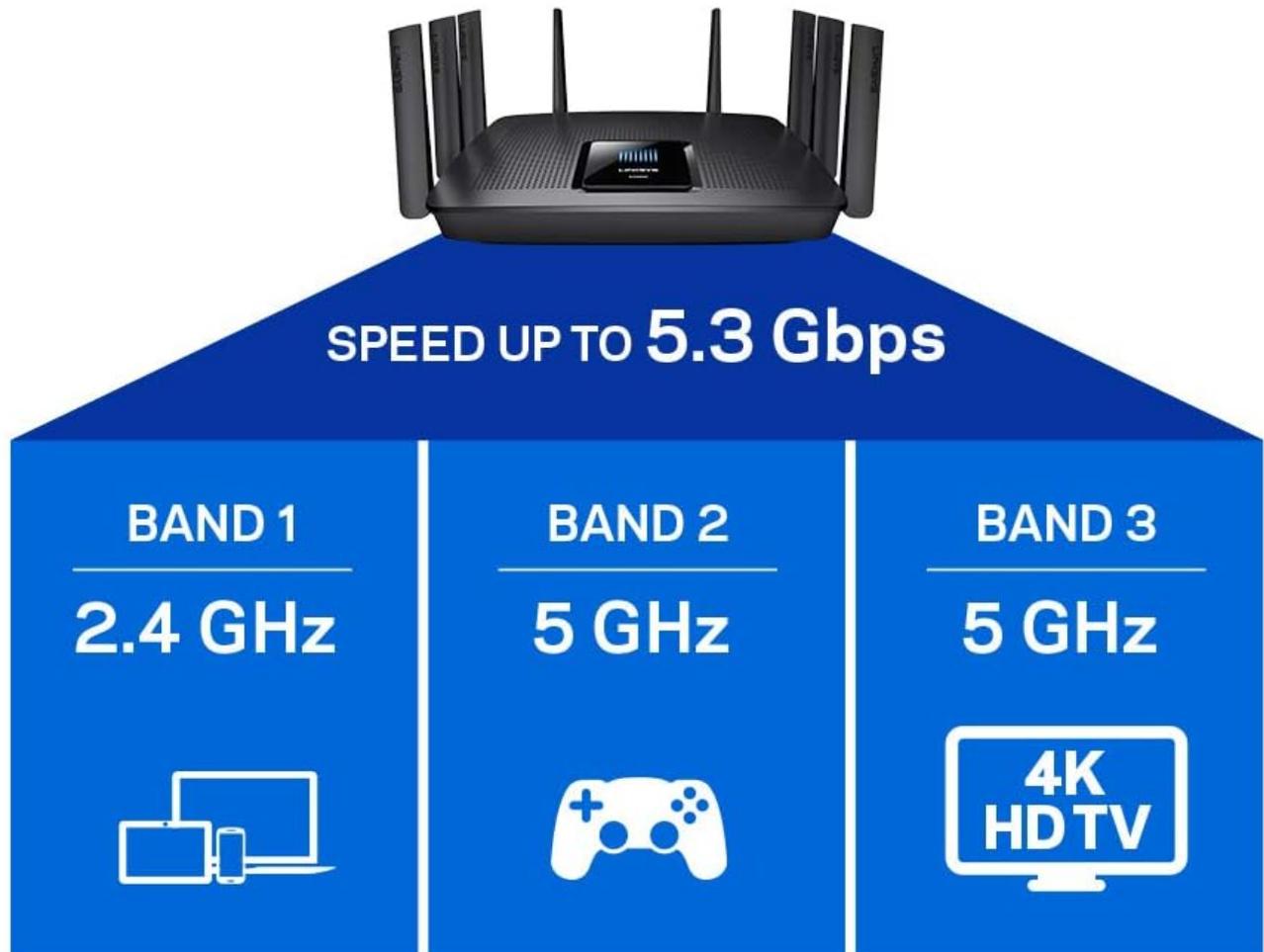


Figure 4: Tri-Band Wi-Fi speed distribution. This diagram shows the router providing three distinct Wi-Fi bands: one 2.4 GHz band and two 5 GHz bands, allowing for a total speed of up to 5.3 Gbps and efficient allocation of bandwidth to various device types.

The EA9500 operates on three distinct Wi-Fi bands: one 2.4 GHz band and two 5 GHz bands. This Tri-Band configuration allows for greater network capacity and reduced congestion, enabling multiple devices to connect simultaneously without significant performance degradation. The 2.4 GHz band is suitable for basic internet use and older devices, while the 5 GHz bands provide higher speeds for demanding applications like 4K video streaming and online gaming.

TRI-BAND COVERAGE

Provides your home with up to 3,000 sq. ft. of WiFi coverage.



Figure 5: Tri-Band coverage illustration. This image depicts a house with the router centrally located, demonstrating how the Tri-Band Wi-Fi provides extensive coverage throughout the home, up to 3,000 sq. ft.

5.2 MU-MIMO Technology

HIGH-SPEED WiFi FOR ALL DEVICES

MU-MIMO Technology ensure all your devices receive the same high-speed, high-bandwidth signal.



Figure 6: MU-MIMO vs. Traditional Wi-Fi. This diagram illustrates how MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technology allows the router to communicate with multiple devices simultaneously, providing each device with a dedicated high-speed connection, unlike traditional Wi-Fi which serves devices sequentially.

MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technology enables the router to communicate with multiple compatible devices simultaneously, rather than sequentially. This ensures that each connected device receives its own dedicated, high-bandwidth Wi-Fi stream, improving overall network efficiency and performance, especially in environments with many active devices.

5.3 Beamforming Technology

FASTER, STRONGER WiFi SIGNAL

Beamforming Technology sends a focused signal directly to your devices, instead of dispersing it.



Figure 7: Beamforming technology in action. This image shows the router directing focused Wi-Fi signals towards connected devices, enhancing signal strength and range for each device, rather than broadcasting a general, dispersed signal.

Beamforming technology focuses the Wi-Fi signal directly to your connected devices, instead of broadcasting it in a general, dispersed pattern. This results in stronger, more reliable connections, improved range, and reduced interference, particularly beneficial for devices located further from the router.

5.4 Wired Connections

The EA9500 features eight Gigabit Ethernet ports, providing wired speeds up to 10 times faster than standard Ethernet. These ports are ideal for connecting devices that require stable, high-speed connections, such as desktop computers, gaming consoles, network-attached storage (NAS) devices, and smart televisions.

5.5 USB Ports

The router includes one USB 3.0 port and one USB 2.0 port. These ports can be used to connect external storage devices (e.g., USB hard drives, flash drives) to create network-attached storage (NAS) for file sharing, or to connect USB printers for network printing.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install the latest firmware updates from the Linksys support website. Firmware updates often include performance improvements, security patches, and new features.
- **Physical Cleaning:** Keep the router clean and free of dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation openings are not blocked to prevent overheating.
- **Optimal Placement:** Ensure the router remains in a central location, elevated, and away from large metal objects or other electronic devices that could interfere with the Wi-Fi signal.
- **Rebooting:** Periodically rebooting the router (power cycling) can help resolve minor network issues and improve performance.

7. TROUBLESHOOTING

If you encounter issues with your Linksys EA9500 router, try the following troubleshooting steps:

- **No Internet Connection:**
 - Check all cable connections between the modem and router, and between the router and your devices.
 - Power cycle both your modem and router (unplug power, wait 30 seconds, plug back in modem first, then router).
 - Verify that your modem is receiving an internet signal from your Internet Service Provider (ISP).
- **Slow Wi-Fi Speeds:**
 - Ensure your devices are connected to the appropriate Wi-Fi band (5 GHz for higher speeds).
 - Check for interference from other electronic devices.
 - Update router firmware and device drivers.
 - Consider using the Linksys App to prioritize bandwidth for critical devices.
- **Intermittent 2.4 GHz Connectivity:**
 - If devices on the 2.4 GHz band frequently disconnect or fail to connect, try changing the 2.4 GHz Wi-Fi channel in the router settings to a less congested one (e.g., 1, 6, or 11).
 - Ensure the router's firmware is up to date.
 - Perform a factory reset if the issue persists after other troubleshooting steps.
- **Cannot Access Router Settings:**
 - Ensure your device is connected to the router's network.
 - Try accessing linksysmartwifi.com or the default IP address (192.168.1.1).
 - Clear your browser's cache and cookies, or try a different browser.
 - If you forgot your administrator password, you may need to perform a factory reset.
- **Factory Reset:** If all other troubleshooting fails, a factory reset can restore the router to its original settings. To do this, with the router powered on, press and hold the recessed Reset button on the rear panel for approximately 10 seconds using a paperclip until the power LED flashes. After resetting, you will need to reconfigure the router.

8. SPECIFICATIONS

Feature	Detail
Brand	Linksys

Feature	Detail
Model Name	EA9500
Wireless Type	802.11ac
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 5 GHz)
Connectivity Technology	Ethernet, Wi-Fi
Ethernet Ports	8 x Gigabit Ethernet
USB Ports	1 x USB 3.0, 1 x USB 2.0
Special Feature	WPS, MU-MIMO, Beamforming
Compatible Devices	Gaming Console, Personal Computer, Printer, Security Camera, Smart Television, Smart Thermostat, Smartphone, Tablet
Product Dimensions	14 x 5 x 7 inches
Item Weight	1.5 pounds
Voltage	120 Volts
Operating System	Linksys OS

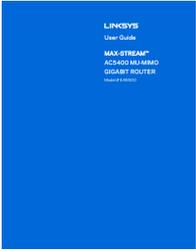
9. WARRANTY AND SUPPORT

This Linksys EA9500 router, being a Certified Refurbished product, typically includes a 90-day warranty from the manufacturer. For specific warranty details, please refer to the documentation provided with your purchase or contact the seller.

For further assistance, technical support, or to download the latest firmware and user guides, please visit the official Linksys support website: www.linksys.com/support.

Related Documents - EA9500

	<p>Linksys MAX-STREAM AC5400 MU-MIMO Gigabit Router EA9500 User Guide</p> <p>Comprehensive user guide for the Linksys MAX-STREAM AC5400 MU-MIMO Gigabit Router (Model EA9500), covering setup, features like Linksys Smart Wi-Fi, network map, guest access, parental controls, media prioritization, speed tests, external storage, troubleshooting, and specifications.</p>
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	<p>Linksys EA9500 MAX-STREAM AC5400 MU-MIMO Gigabit Router User Guide</p> <p>Comprehensive user guide for the Linksys EA9500 MAX-STREAM AC5400 MU-MIMO Gigabit Router, covering setup, usage, features like Smart Wi-Fi, Network Map, Guest Access, Parental Controls, Media Prioritization, troubleshooting, and specifications.</p>
	<p>Linksys EA9500 Regulatory Information</p> <p>Comprehensive regulatory compliance information for the Linksys MAX-STREAM AC5400 MU-MIMO Gigabit Router (Model EA9500), covering FCC, Industry Canada, EU directives, WEEE, and country-specific restrictions.</p>
	<p>Linksys MAX-STREAM AC2200 MU-MIMO Tri-Band Router EA8300 User Guide</p> <p>Comprehensive user guide for the Linksys MAX-STREAM AC2200 MU-MIMO Tri-Band Router (Model EA8300), covering product overview, setup, features like Smart Wi-Fi, Network Map, Guest Access, Parental Controls, troubleshooting, and specifications.</p>
	<p>Linksys EA8500 AC2600 MU-MIMO Gigabit Router User Guide</p> <p>User guide for the Linksys EA8500 AC2600 MU-MIMO Gigabit Router, covering product overview, setup instructions, troubleshooting common issues, and technical specifications.</p>
	<p>Руководство пользователя Linksys EA8500 AC2600 MU-MIMO Gigabit Router</p> <p>Руководство пользователя для гигабитного роутера Linksys EA8500 AC2600 MU-MIMO, содержащее инструкции по настройке, конфигурации, управлению сетью, устранению неполадок и технические характеристики.</p>