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## Linksys EA6900

# Linksys EA6900 Smart WiFi AC1900 Router Instruction Manual

Model: EA6900 | Brand: Linksys

## INTRODUCTION

The Linksys EA6900 Smart WiFi AC1900 Router is designed to provide high-speed wireless connectivity for your home network. Featuring advanced Wireless-AC technology and simultaneous dual-band operation, it is optimized for demanding tasks such as HD video streaming and online gaming. This manual provides essential information for setting up, operating, and maintaining your router, ensuring optimal performance and a secure network environment.

## PACKAGE CONTENTS

- Linksys Smart Wi-Fi Router AC1900, EA6900
- Quick Start Guide
- 3 Antennas
- CD-ROM with Documentation
- Ethernet Cable
- Power Adapter

## SETUP

Follow these steps to set up your Linksys EA6900 router:

1. **Unpack the Router:** Carefully remove the router and all accessories from the packaging.
2. **Connect the Antennas:** Attach the three external antennas to the designated ports on the back of the router. Ensure they are securely fastened.
3. **Position the Router:** Place the router in a central location in your home, away from obstructions and other electronic devices that may cause interference.
4. **Connect to Power:** Plug the power adapter into the router's power port and then into an electrical outlet. The power LED on the router should illuminate.
5. **Connect to Modem:** Connect one end of the provided Ethernet cable to the yellow "Internet" (WAN) port on the router and the other end to your modem's Ethernet port.
6. **Connect Devices (Optional):** For wired connections, connect Ethernet cables from your devices (e.g., computer, gaming

console) to any of the four blue "Ethernet" (LAN) ports on the router.

## 7. Initial Configuration:

- Connect your computer or mobile device to the router's default Wi-Fi network (SSID and password can be found on the router's label or Quick Start Guide).
- Open a web browser and navigate to the Linksys Smart WiFi setup page (usually [linksysmartwifi.com](http://linksysmartwifi.com) or [192.168.1.1](http://192.168.1.1)).
- Follow the on-screen instructions to complete the setup, including creating a new Wi-Fi network name (SSID) and password, and setting up an administrator password for the router.



Figure 1: Front view of the Linksys EA6900 Router, showcasing its design and external antennas.



Figure 2: Rear panel of the Linksys EA6900 Router, showing the power port, WAN port, four LAN ports, and USB ports.

## OPERATING THE ROUTER

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The Linksys EA6900 router offers various features to manage your network:

- **Dual-Band Wi-Fi:** The router operates on both 2.4 GHz and 5 GHz frequencies simultaneously. The 2.4 GHz band provides wider coverage, while the 5 GHz band offers faster speeds for compatible devices.
- **Linksys Smart WiFi Software:** Access your router settings and manage your network from anywhere using the Linksys Smart WiFi app or web interface. Features include guest access, parental controls, and device prioritization.
- **Wi-Fi Protected Setup (WPS):** Easily connect WPS-compatible devices to your Wi-Fi network by pressing the WPS button on the router and the device.
- **USB Ports:** The router includes one USB 2.0 port and one USB 3.0 port. These can be used to connect external storage devices for network-attached storage (NAS) functionality, allowing you to share files across your network.
- **Gigabit Ethernet Ports:** Four Gigabit LAN ports provide high-speed wired connections for devices like desktop computers, smart TVs, and gaming consoles.

## MAINTENANCE

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To ensure the longevity and optimal performance of your Linksys EA6900 router, consider the following maintenance tips:

- **Firmware Updates:** Regularly check for and install firmware updates through the Linksys Smart WiFi software. Updates often include performance improvements, security patches, and new features.
- **Physical Placement:** Ensure the router is placed in a well-ventilated area to prevent overheating. Avoid placing it in enclosed spaces or near heat sources.
- **Cable Management:** Keep all cables connected to the router tidy and free from kinks or excessive bending to prevent signal degradation.
- **Restart Periodically:** Occasionally restarting your router (power cycling) can help clear its memory and resolve minor performance issues.

## TROUBLESHOOTING

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If you encounter issues with your Linksys EA6900 router, try these troubleshooting steps:

- **No Internet Connection:**
  - Check if the modem is working correctly.
  - Ensure the Ethernet cable from the modem is securely connected to the router's yellow "Internet" (WAN) port.
  - Restart both your modem and router by unplugging them from power for 30 seconds and then plugging them back in.
- **Slow Wi-Fi Speeds or Frequent Disconnects:**
  - Move the router to a more central location, away from walls, large metal objects, and other electronics.
  - Ensure your devices are connected to the appropriate Wi-Fi band (5 GHz for faster speeds, 2.4 GHz for wider range).
  - Check for firmware updates for your router.
  - Reduce the number of active devices or bandwidth-intensive applications if possible.
- **Cannot Access Router Settings:**
  - Ensure your device is connected to the router's Wi-Fi network or via an Ethernet cable.
  - Verify the router's IP address (usually 192.168.1.1 ) or use [linksysmartwifi.com](http://linksysmartwifi.com) .
  - If you forgot your administrator password, you may need to perform a factory reset (see Quick Start Guide for instructions).
- **Wi-Fi Protected Setup (WPS) Issues:**

- Ensure your device supports WPS.
- Try initiating WPS from both the router and the device within two minutes.
- If WPS fails, connect the device manually using the Wi-Fi network name (SSID) and password.

## SPECIFICATIONS

Feature	Detail
Brand	Linksys
Model Name	EA6900
Wireless Technology	Advanced Wireless-AC (up to 4.3x faster than Wireless-N)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Max. Link Rate	1300 Mbps (AC1300) + N600 Mbps
Ethernet Ports	1x Gigabit WAN (10/100/1000), 4x Gigabit LAN (10/100/1000)
USB Ports	1x USB 2.0, 1x USB 3.0
Antennas	3 Fixed Antennas
Special Features	Linksys Smart WiFi software, Wi-Fi Protected Setup (WPS)
Operating Temperature	32 to 104 °F (0 to 40 °C)
Operating Humidity	10 to 80% Noncondensing
Network Standards	IEEE 802.11a/b/g/n/ac, IEEE 802.3/3u
Compatible OS	Mac OS X (10.5.8 to 10.9), Windows (XP to 8 32/64)

## WARRANTY AND SUPPORT

The Linksys EA6900 Smart WiFi AC1900 Router comes with a **1-year hardware limited warranty**. For technical support, product registration, or to access the full documentation, please visit the official Linksys support website. You can also find additional resources and FAQs through the Linksys Smart WiFi software.