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Linksys WRT1900ACS

Linksys WRT1900ACS Dual-Band Gigabit WiFi Router User Manual

Model: WRT1900ACS

1. INTRODUCTION

The Linksys WRT1900ACS Dual-Band Gigabit WiFi Wireless Router is designed to provide unparalleled Wi-Fi performance for demanding home and small office environments. Featuring a powerful 1.6 GHz dual-core processor and 512MB memory, this router supports active online households by delivering speeds up to 1.9Gbps (AC1900). Its unique four external antenna configuration and Beamforming technology enhance signal strength and coverage, minimizing dead spots. The WRT1900ACS also includes four Gigabit Ethernet ports, a USB 3.0 port, and a dual eSATA/USB 2.0 port for versatile wired connectivity and high-speed data transfer. Advanced users will appreciate its open-source readiness for custom firmware.



Figure 1: Linksys WRT1900ACS Dual-Band Gigabit WiFi Router

2. WHAT'S IN THE BOX

Your Linksys WRT1900ACS package should contain the following items:

- Linksys WRT1900ACS Router
- 4 External, Dual-Band Detachable Antennas
- Quick Start Guide
- CD-ROM with Documentation
- Ethernet Cable
- Power Adapter and Power Cord

3. SETUP GUIDE

3.1. Connecting the Antennas

Carefully screw the four detachable antennas into the corresponding connectors on the back and sides of the router. Ensure they are finger-tight. These high-performance antennas are adjustable for optimal positioning to enhance dual-band communication in various home layouts.

3.2. Power and Network Connections

1. Connect one end of the provided Ethernet cable to the Internet (yellow) port on the back of the WRT1900ACS router.
2. Connect the other end of the Ethernet cable to your modem's Ethernet port.
3. Plug the power adapter into the 12VDC power port on the router.
4. Plug the power cord into a wall outlet.

5. Turn on the router using the power switch. Wait for the indicator lights on the front panel to stabilize, indicating a successful connection.

3.3. Initial Configuration

Once the router is powered on and connected, you can configure it using the Linksys Smart Wi-Fi software. Connect a computer to the router via Wi-Fi (using the default network name and password found on the router's label) or via an Ethernet cable to one of the four Gigabit Ethernet ports. Open a web browser and follow the on-screen instructions for initial setup.

4. OPERATING INSTRUCTIONS

4.1. Dual-Band Wi-Fi

The WRT1900ACS operates on two frequency bands: 2.4 GHz and 5 GHz. The 2.4 GHz band offers wider coverage and better penetration through walls, suitable for general internet use and older devices. The 5 GHz band provides faster speeds and less interference, ideal for high-bandwidth activities like online gaming and 4K video streaming. You can connect devices to either band based on your needs.

4.2. Beamforming Technology

This router utilizes Beamforming technology, which intelligently focuses the Wi-Fi signal directly to your connected devices rather than broadcasting in a general direction. This results in stronger, more reliable connections and improved range, especially in multi-level homes or areas with obstacles.

4.3. USB and eSATA Ports

The router features a USB 3.0 port and a dual eSATA/USB 2.0 port. These ports allow you to connect external storage devices (like hard drives or flash drives) to your network, enabling you to share files across all connected devices. The USB 3.0 port offers significantly faster data transfer speeds compared to USB 2.0, while the eSATA port provides optimal speeds for external SATA drives.

4.4. Linksys Smart Wi-Fi App

Manage your home network from anywhere using the Linksys Smart Wi-Fi app. This application provides comprehensive control over your router's settings and connected devices. Key features include:

- **Guest Access:** Easily create a separate, password-protected Wi-Fi network for guests.
- **Parental Controls:** Manage and restrict internet access for specific devices or websites, and set internet schedules.
- **Device Prioritization:** Allocate more bandwidth to specific devices (e.g., gaming consoles, streaming TVs) to ensure smooth performance.
- **Network Map:** View all connected devices on your network.

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Video 1: Overview of Linksys Smart Wi-Fi App features, including guest access, parental controls, and device prioritization.

4.5. Open Source Ready

The WRT1900ACS is designed to be open-source ready, allowing advanced users to customize its firmware with third-party solutions like OpenWRT. This provides unprecedented access to advanced network configurations and features beyond the standard Linksys firmware.

5. MAINTENANCE

5.1. Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed through the Linksys Smart Wi-Fi app or the web-based administration interface. For open-source firmware, follow the specific instructions provided by the open-source community.

5.2. Cleaning and Care

Keep the router in a well-ventilated area to prevent overheating. Periodically clean the router's exterior with a soft, dry cloth. Avoid using

liquid cleaners or abrasive materials.

6. TROUBLESHOOTING

6.1. No Internet Connection

- Check all cable connections between the router, modem, and power outlet.
- Restart your modem and router by unplugging them for 30 seconds and then plugging them back in.
- Verify that your Internet Service Provider (ISP) is not experiencing an outage.

6.2. Slow Wi-Fi Speeds

- Ensure your devices are connected to the appropriate Wi-Fi band (5 GHz for faster speeds, 2.4 GHz for better range).
- Adjust the router's antennas for optimal signal direction.
- Use the Device Prioritization feature in the Linksys Smart Wi-Fi app to prioritize critical devices.
- Reduce interference by moving the router away from other electronic devices.

6.3. Resetting the Router

If you encounter persistent issues, you may need to reset the router to its factory default settings. Locate the 'Reset' button on the back of the router. With the router powered on, use a paperclip or similar pointed object to press and hold the reset button for about 10 seconds. The router will restart, and you will need to reconfigure it.

7. SPECIFICATIONS

Brand	Linksys
Model Name	WRT1900ACS
Wireless Type	802.11ac
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Processor	Dual Core 1.6 GHz ARM based
RAM	512 MB
Flash Memory Size	128 MB
Ethernet Ports	4 Gigabit Ethernet Ports
USB Ports	1x USB 3.0, 1x eSATA/USB 2.0
Antennas	4 External, Dual-Band Detachable Antennas
Operating System Compatibility	MacOS (10.X or higher), Windows 7, Windows 8.1, Windows 10
Dimensions (LxWxH)	9.76 x 7.67 x 2.01 inches
Item Weight	1.77 pounds

8. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please visit the official Linksys support website. You can find detailed FAQs, troubleshooting guides, and contact information for customer service there.

