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## D-Link DHP-1320

# D-Link DHP-1320 Wireless-N PowerLine Router User Manual

Model: DHP-1320

## 1. INTRODUCTION

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The D-Link DHP-1320 Wireless-N PowerLine Router combines wireless networking with PowerLine AV technology, allowing you to extend your network using your home's existing electrical wiring. This device provides both Wi-Fi and wired connectivity for various devices.

**D-Link**<sup>®</sup>

**PowerLine** Wi-Fi and PowerLine in one router



## Wireless N PowerLine Router

High quality and performance connectivity for enhanced gaming, HD media streaming and super fast internet

Network connections to anywhere in your house

Combines wireless and wired connectivity using Ethernet and your home's existing electrical wiring

DHP-1320

Figure 1: D-Link DHP-1320 Wireless-N PowerLine Router

This image shows the front view of the D-Link DHP-1320 Wireless-N PowerLine Router, highlighting its compact design and external antennas.

### Key Features:

- IEEE 802.11n and 802.11g Compliant for Wi-Fi connectivity.
- Up to 300 Mbps throughput for Wi-Fi networks.
- Up to 200 Mbps throughput for PowerLine AV networks.
- Utilizes your home's existing electrical wiring for network extension.
- Three 10/100 Mbps Fast Ethernet switch ports for wired connections.
- Supports WPA, WPA2, and WPS security protocols.

## 2. SETUP AND INSTALLATION

Follow these steps to set up your D-Link DHP-1320 Wireless-N PowerLine Router.

### 2.1 Package Contents

- D-Link DHP-1320 Wireless-N PowerLine Router
- Ethernet Cable
- Power Adapter
- Quick Installation Guide (refer to this manual for detailed instructions)

### 2.2 Connecting the Router

1. **Connect to Power:** Plug the power adapter into the router's AC IN port and then into a standard electrical outlet.
2. **Connect to Internet Source:** Connect an Ethernet cable from your modem or existing router's LAN port to the **INTERNET** port (WAN) on the DHP-1320.
3. **Connect Wired Devices:** For wired devices (e.g., computers, gaming consoles), connect an Ethernet cable from the device to any of the three **LAN** ports (1, 2, or 3) on the DHP-1320.
4. **Power On:** Press the **ON/OFF** button to power on the router.

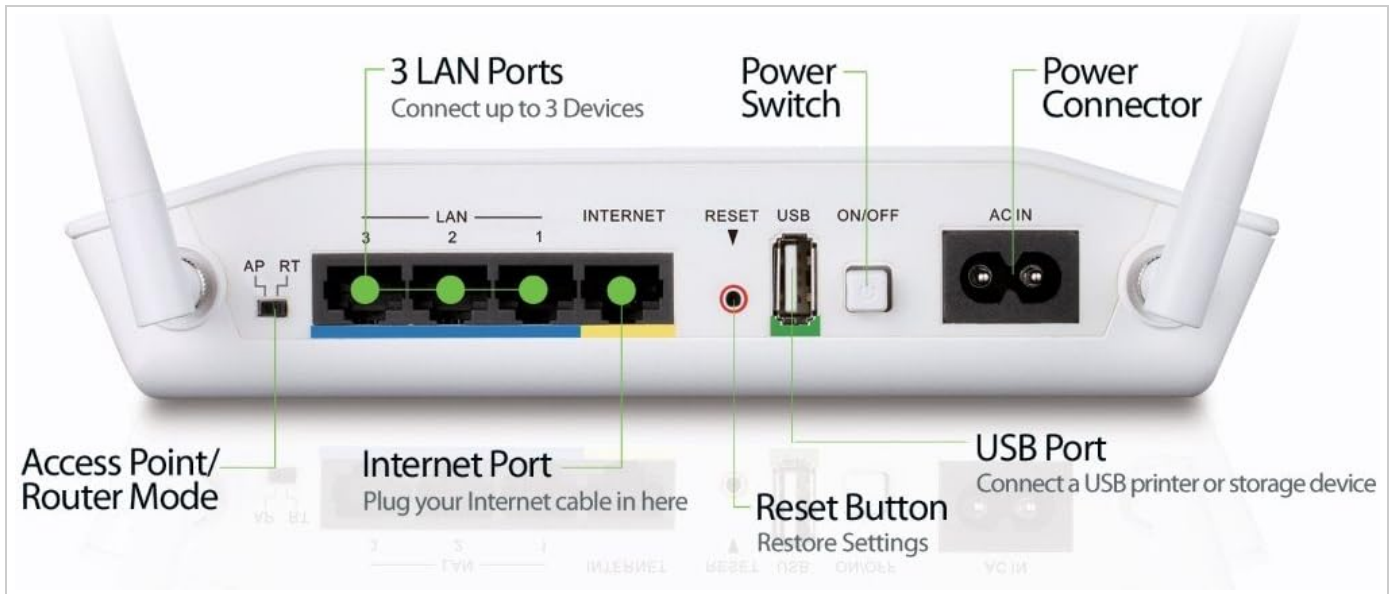


Figure 2: Rear Panel Connections

This image illustrates the rear panel of the DHP-1320, showing the Internet port, LAN ports, Reset button, USB port, ON/OFF switch, and AC IN port. The AP/RT switch is also visible.

## 2.3 PowerLine AV Pairing

To establish a secure PowerLine network with other D-Link PowerLine AV adapters, follow these steps:

1. Ensure all PowerLine AV devices, including the DHP-1320, are plugged into electrical outlets.
2. Locate the **PowerLine Sync Connection (ENY) Button** on the side of the DHP-1320.
3. Press and hold the ENY button on the DHP-1320 for 1-3 seconds. The PowerLine AV LED on the front panel should begin to flash.
4. Within two minutes, press and hold the corresponding sync button on your other PowerLine AV adapter for 1-3 seconds.
5. The PowerLine AV LEDs on both devices should turn solid, indicating a successful secure connection.



Figure 3: Side View with PowerLine Sync Button

This image shows the side of the DHP-1320, highlighting the PowerLine Sync Connection (ENY) button, which is used for pairing with other PowerLine AV devices.

## 2.4 Wi-Fi Configuration

The DHP-1320 comes with a default Wi-Fi network name (SSID) and password, usually found on a label on the device.

- To connect to Wi-Fi, search for the default SSID on your wireless device and enter the default password.
- For advanced settings, access the router's web-based configuration utility by typing its default IP address (e.g., 192.168.0.1) into a web browser. Refer to the Quick Installation Guide for default login credentials.

## 3. OPERATION

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Understanding the router's indicators and modes of operation.

### 3.1 LED Indicators

The front panel LEDs provide status information about the router's operation.



Figure 4: Front Panel LED Indicators

This image displays the front panel of the DHP-1320, with labels pointing to the Power LED, Internet LED, WLAN LED, LAN LEDs (1-3), PowerLine AV LEDs, and USB LED, indicating their respective statuses.

**Table 1: LED Status Indicators**

LED	Status	Description
<b>Power</b>	Solid Green	Device is powered on.
<b>Internet</b>	Solid Green	Connected to the Internet.
	Flashing Green	Data activity on the Internet port.
<b>WLAN</b>	Solid Green	Wireless network is active.
	Flashing Green	Wireless data activity.
<b>LAN (1-3)</b>	Solid Green	Device connected to corresponding LAN port.
	Flashing Green	Data activity on corresponding LAN port.
<b>PowerLine AV</b>	Solid Green	PowerLine AV network is active and connected.
	Flashing Green	PowerLine AV data activity or pairing mode.
<b>USB</b>	Solid Green	USB device connected and recognized.

### 3.2 Router Modes (AP/RT Switch)

The DHP-1320 features an **AP/RT switch** on its rear panel, allowing you to select its operational mode:

- **RT (Router) Mode:** In this mode, the DHP-1320 acts as a primary router, providing network address translation (NAT) and DHCP services. Connect your modem to the Internet port.
- **AP (Access Point) Mode:** In this mode, the DHP-1320 functions as a wireless access point, extending an existing network. Connect it to a LAN port of your main router.

*Note: Change the AP/RT switch position only when the device is powered off to prevent potential configuration issues.*

## 4. MAINTENANCE

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Proper maintenance ensures optimal performance and longevity of your DHP-1320 router.

### 4.1 Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the router.
- Do not use liquid cleaners or aerosol sprays, as they may damage the device.
- Keep ventilation openings clear of dust and obstructions.

### 4.2 Firmware Updates

Periodically check the D-Link support website for firmware updates. Firmware updates can improve performance, add new features, and fix bugs. Refer to the D-Link website for instructions on how to update the firmware.

### 4.3 Resetting the Router

If you encounter persistent issues or forget your login credentials, you may need to reset the router to its factory default settings.

1. With the router powered on, locate the **RESET** button on the rear panel (refer to Figure 2).
2. Use a paperclip or a similar pointed object to press and hold the RESET button for approximately 10 seconds.
3. Release the button when the Power LED begins to flash or all LEDs briefly illuminate.
4. The router will reboot with factory default settings. You will need to reconfigure your network settings.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your DHP-1320 router.

### 5.1 No Internet Connection

- **Check Cables:** Ensure the Ethernet cable from your modem is securely connected to the DHP-1320's **INTERNET** port.
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection.
- **Router Mode:** Confirm the AP/RT switch is set to **RT (Router)** mode if the DHP-1320 is your primary router.
- **Reboot Devices:** Power cycle your modem, then the DHP-1320, and then your connected devices.
- **Internet LED:** Check if the Internet LED on the front panel is solid green. If not, there might be an issue with your internet service provider or modem connection.

### 5.2 Wi-Fi Connectivity Issues

- **WLAN LED:** Ensure the WLAN LED is solid or flashing green. If off, Wi-Fi may be disabled.
- **SSID and Password:** Verify you are connecting to the correct Wi-Fi network (SSID) and entering the correct password.
- **Signal Strength:** Move closer to the router to check if signal strength is an issue.
- **Interference:** Other wireless devices or appliances can cause interference. Try changing the Wi-Fi channel in the router's settings.

### 5.3 PowerLine AV Network Not Connecting

- **PowerLine AV LED:** Check if the PowerLine AV LED on both devices is solid green. If not, they are not paired or

connected.

- **Electrical Outlets:** Ensure both PowerLine devices are plugged directly into wall outlets, not power strips or surge protectors.
- **Pairing Process:** Re-attempt the PowerLine AV pairing process as described in Section 2.3.
- **Electrical Circuit:** PowerLine devices work best when on the same electrical circuit. Large appliances or circuit breakers can affect performance.

## 5.4 Router Requires Frequent Resets

If your router frequently requires reboots or resets to restore functionality, consider the following:

- **Firmware:** Ensure your router's firmware is up to date.
- **Overheating:** Ensure the router has adequate ventilation and is not placed in an enclosed space.
- **Power Supply:** Verify the power adapter is the original D-Link adapter and is functioning correctly.
- **Network Load:** Excessive network traffic or too many connected devices might strain the router.
- **Factory Reset:** As a last resort, perform a factory reset (Section 4.3) and reconfigure the settings carefully.

## 6. SPECIFICATIONS

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Detailed technical specifications for the D-Link DHP-1320 Wireless-N PowerLine Router.

# WALL-TO-WALL HOME NETWORKING

DHP-1320



## FEATURES

- + IEEE 802.11n and 802.11g Compliant
- + Up to 300Mbps<sup>3</sup> Throughput for Wi-Fi Network
- + Wi-Fi<sup>®</sup> Protected Setup™ (WPS) for Simple Push-Button Wireless Network Configuration
- + Built-in QoS Engine Enhances Internet Experience
- + 3-Port 10/100Mbps Fast Ethernet Switch
- + Supports Secure Wireless Encryption Using WPA™ or WPA2™
- + Uses Your Home's Existing Electrical Wiring by Plugging into Power Outlets<sup>2</sup>
- + Up to 200Mbps<sup>3</sup> Throughput for PowerLine AV Network
- + Power Saving Mode
- + Supports 128-bit AES Encryption For PowerLine Network Security
- + PowerLine Sync Connection (ENY) Button
- + Plug & Play Installation
- + 24/7 Basic Installation Support<sup>4</sup>
- + 1-Year Limited Warranty<sup>5</sup>

## THINK GREEN

While this may look like your average router, it's not. This is a D-Link Green™ router, which is as good for your wallet as it is for the environment. The DHP-1320 is designed to conserve energy, protect our environment from harmful substances and reduce waste by using recyclable packaging. To learn more, visit [www.dlinkgreen.com](http://www.dlinkgreen.com).

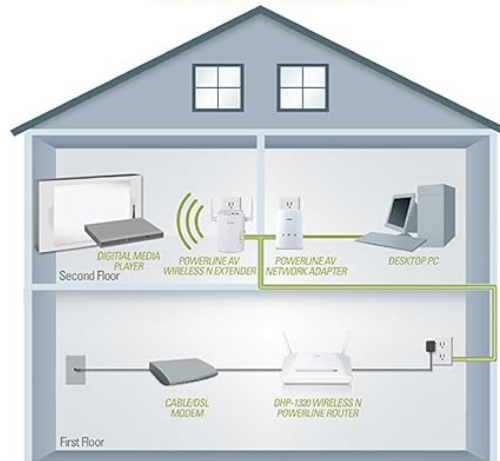
## D-LINK GREEN™ TECHNOLOGY

- + Power saving by link status
- + Power saving by cable length
- + Power saving by wireless LAN scheduling
- + On/off button saves power when not in use



**POWERLINE AV**

## YOUR NETWORK SETUP



A MINIMUM OF TWO D-LINK POWERLINE AV ETHERNET ADAPTERS ARE REQUIRED TO CREATE A NETWORK. D-LINK POWERLINE AV ETHERNET ADAPTERS (DHP-1306AV, DHP-1306AZ, DHP-3070) MAY COEXIST, BUT ARE NOT COMPATIBLE OR INTEROPERABLE, WITH D-LINK POWERLINE HD ETHERNET ADAPTERS (DHP-302, DHP-303)

## TECHNICAL SPECIFICATIONS

### STANDARDS

- + IEEE 802.11n
- + IEEE 802.3
- + IEEE 802.3u
- + HomePlug AV

### ETHERNET INTERFACE

- + Three 10/100Base-TX Ethernet Port
- + RJ-45 Connector

### MAXIMUM PHY RATE

- + 200 Mbps<sup>1</sup>

### POWERLINE FREQUENCY BAND

- + 2MHz to 28MHz

### QoS

- + Integrated QoS prioritizes media and data

### POWERLINE SECURITY

- + 128-bit AES encryption

### LEDS

- + Power
- + Internet
- + WLAN
- + PowerLine
- + Ethernet

### POWER SUPPLY

- + 100-240VAC, 50/60Hz

### POWER SAVING

- + Power saving mode supported
- + Compliant with European Energy Using Product Directive

### OPERATING TEMPERATURE

- + 30° to 104° F (0° to 40° C)

### OPERATING HUMIDITY

- + 10% to 90% non-condensing

### CERTIFICATIONS

- + CE EMC Class B
- + FCC Part 15 Class B
- + UL
- + CE LVD
- + K21

### DIMENSIONS

- + 5.25" x 8" x 1.5"

### WEIGHT

- + 1.02 lbs

### WARRANTY

- + 1-Year Warranty

<sup>1</sup> Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range. Wireless range and speed rates are D-Link RELATIVE performance measurements based on the wireless range and speed rates of a standard Wireless G product from D-Link. Maximum throughput based on D-Link's 802.11n devices.

<sup>2</sup> Power outlets and electrical wiring must all be part of the same electrical system. Certain electrical conditions in your home, such as wiring conditions and configuration may affect the performance of this product. A minimum of two D-Link PowerLine AV Network Adapters are required to create a network. Connecting this product to a power strip with a surge protector may adversely affect the performance of this product. For best results, plug adapter directly into a power outlet.

<sup>3</sup> Maximum throughput based on theoretical transmission PHY rate. Actual data throughput will vary. Network conditions and environmental factors, including volume of traffic and network overhead, may lower actual data throughput rate. Interference from devices that emit electrical noise, such as vacuum cleaners and hair dryers, may adversely affect the performance of this product. This product may interfere with devices such as lighting systems that have a dimmer switch, short wave radios, or other powerline devices that do not follow the HomePlug PowerLine Alliance standard.

<sup>4</sup> 24/7 Basic Installation Support is available only in the USA for the first 30 days from date of original purchase.

<sup>5</sup> 1-Year Limited Warranty available only in the USA and Canada.

<sup>6</sup> Computer must adhere to Microsoft's recommended system requirements.

<sup>7</sup> Software included is not Mac-compatible.

<sup>8</sup> Latest Software and Documentation available at <http://support.dlink.com>.

Product specification, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted on the package. See inside package for warranty details. D-Link PowerLine AV Network Adapters (DHP-306, DHP-307AV) may coexist with but are not compatible or interoperable with D-Link HD Ethernet Adapters (DHP-302, DHP-303). This product is designed for use in the USA and Canada. Use of this product in other countries might violate local laws.

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### MINIMUM REQUIREMENTS

- Computer with:
- + Windows<sup>®</sup> 7<sup>®</sup>, Windows Vista<sup>®</sup> or Windows<sup>®</sup> XP SP2<sup>®</sup> or Mac OS<sup>®</sup> X<sup>7</sup> (v10.4)
  - + Internet Explorer<sup>®</sup> v6 or Mozilla<sup>®</sup> Firefox<sup>®</sup> v3.0
  - + CD-ROM Drive
  - + Network Interface Card
- Power Supply:
- + 110-240VAC, 50-60Hz

### FOR INTERNET ACCESS:

- + Cable or DSL Modem
- + Subscription with an Internet Service Provider (ISP)

For optimal wireless or powerline performance, use with D-Link RangeBooster N<sup>®</sup>, USB Adapter (DMA-140) and D-Link PowerLine AV Network Adapter (DHP-306AV), or D-Link PowerLine AV Wireless N Extender (DHP-W306AV)

### PACKAGE CONTENTS

- + Wireless N PowerLine Router (DHP-1320)
- + Ethernet Cable
- + 2 Detachable Antennas
- + Power Cord
- + CD-ROM<sup>8</sup>

Figure 5: Technical Specifications Overview

This image provides a visual overview of the DHP-1320's technical specifications and a diagram illustrating a typical network setup using PowerLine AV technology.

**Table 2: DHP-1320 Technical Specifications**

Feature	Description
Brand	D-Link
Model Name	DHP-1320
Wireless Standard	802.11g/n (Wi-Fi 4)
Frequency Band	Single-Band (2.4 GHz)
Wi-Fi Throughput	Up to 300 Mbps
PowerLine AV Throughput	Up to 200 Mbps
Connectivity Technology	Wireless, Wired (Ethernet, HomePlug)
Ethernet Ports	3 x 10/100 Mbps LAN, 1 x 10/100 Mbps WAN (Internet)
USB Port	1 x USB (for printer or storage device)
Security Protocols	WPA, WPA2, WPS, 128-bit AES Encryption (PowerLine)
Compatible Devices	Gaming Console, Laptop, Personal Computer
Recommended Uses	Gaming, Home, Office
Operating System	D-Link OS
Item Weight	1.02 Pounds (approx. 0.46 kg)
Is Modem Compatible	No (Functions as a router, requires a separate modem)
Manufacturer	D-Link Systems, Inc.
Model Number (Mfr Part Number)	DHP-1320
UPC / GTIN	115971261906, 163120603176, 790069339219

## 7. WARRANTY INFORMATION

The D-Link DHP-1320 Wireless-N PowerLine Router comes with a **1-Year Limited Warranty**.

For detailed terms and conditions of the warranty, please refer to the warranty card included with your product or visit the official D-Link website. This warranty covers defects in materials and workmanship under normal use.

## 8. TECHNICAL SUPPORT

If you require further assistance or encounter issues not covered in this manual, please contact D-Link Technical Support.

- **Online Support:** Visit the official D-Link support website for FAQs, troubleshooting guides, firmware downloads, and contact information.
- **Website:** [www.dlink.com](http://www.dlink.com)

Please have your product model number (DHP-1320) and serial number ready when contacting support.



