





User Manual

Powerline AV+ Wireless N Mini Extender

Table of Contents

Product Overview	3
Package Contents	3
System Requirements	4
Introduction	5
Features	6
Hardware Overview	7
Connections	7
Side	8
Installation.....	9
Connecting the Powerline AV Adapter	9
Technical Specifications.....	10
...Federal Communication Commission Interference Statement	11

Package Contents

<p>D-Link DHP-W310AV Powerline AV+ Wireless N Mini Extender</p>	
<p>CAT5 Ethernet Cable</p>	

System Requirements

<p>Network Requirements</p>	<ul style="list-style-type: none"> • IEEE 802.11n or 802.11g wireless clients • 10/100 Ethernet clients
<p>Web-based Configuration Utility Requirements</p>	<p>Computer with the following:</p> <ul style="list-style-type: none"> • Windows®, Macintosh®, or Linux-based operating system • An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none"> • Internet Explorer 6.0 or higher • Firefox 3.0 or higher • Safari 3.0 or higher • Chrome 2.0 or higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>
<p>CD Installation Wizard Requirements</p>	<p>Computer with the following:</p> <ul style="list-style-type: none"> • Windows® XP with Service Pack 2 / Vista® / Windows 7 • An installed Ethernet adapter • CD-ROM drive

Introduction

The DHP-W310AV Powerline AV+ Wireless N Mini Extender is ideal for home or office wireless networks that require very fast Internet connections. The DHP-W310AV provides wireless transmission speeds of up to 300 Mbps, enabling you to enjoy fast Internet access, stream High Definition content, and enjoy lag-free gaming and VoIP. The DHP-W310AV also supports hybrid networking, which utilizes wireless, Powerline, and wired Ethernet to create a reliable and efficient network for your entire home or office.

Features

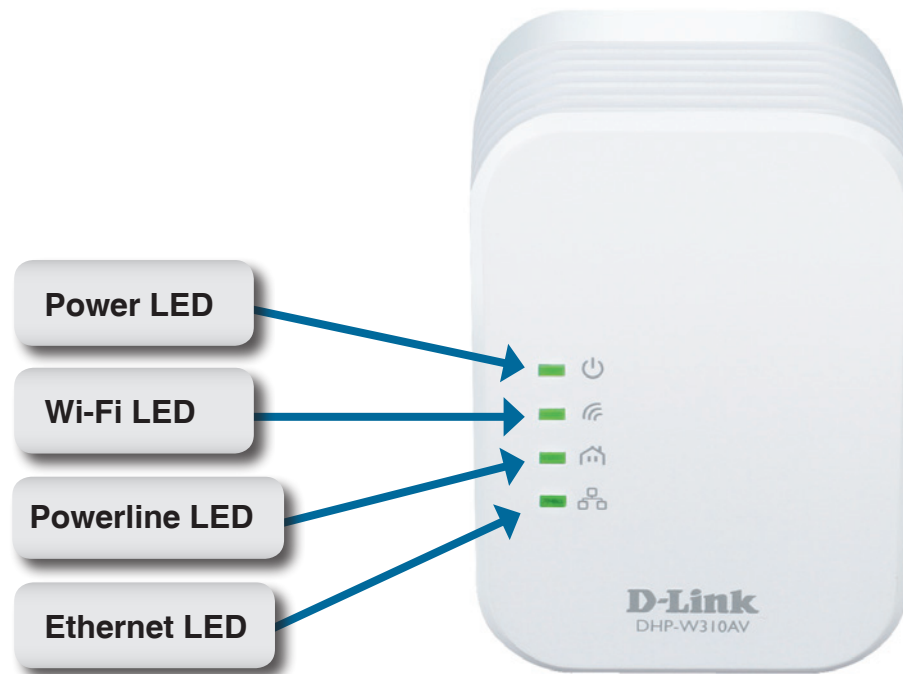
- **Compatible with 802.11b and 802.11g Devices** - The DHP-W310AV is still fully compatible with the 802.11b/g standards, so it can connect with existing 802.11b/g PCI, USB, and Cardbus adapters.
- **Compliant with the HomePlug AV** - Provides physical layer data rate of over 200Mbps over existing in-home power lines.
- **WPS PBC** - (Wi-Fi Protected Setup Push Button Configuration) Push Button Configuration is a button that can be pressed to add the device to an existing network or to create a new network. A virtual button can be used on the utility while a physical button is placed on the side of the device.

This easy setup method allows you to form a secured wireless link between the DHP-W310AV and another WPS enabled device. A PC is no longer needed to log into the Web-based interface.

- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user you can configure your access point to your specific settings within minutes.

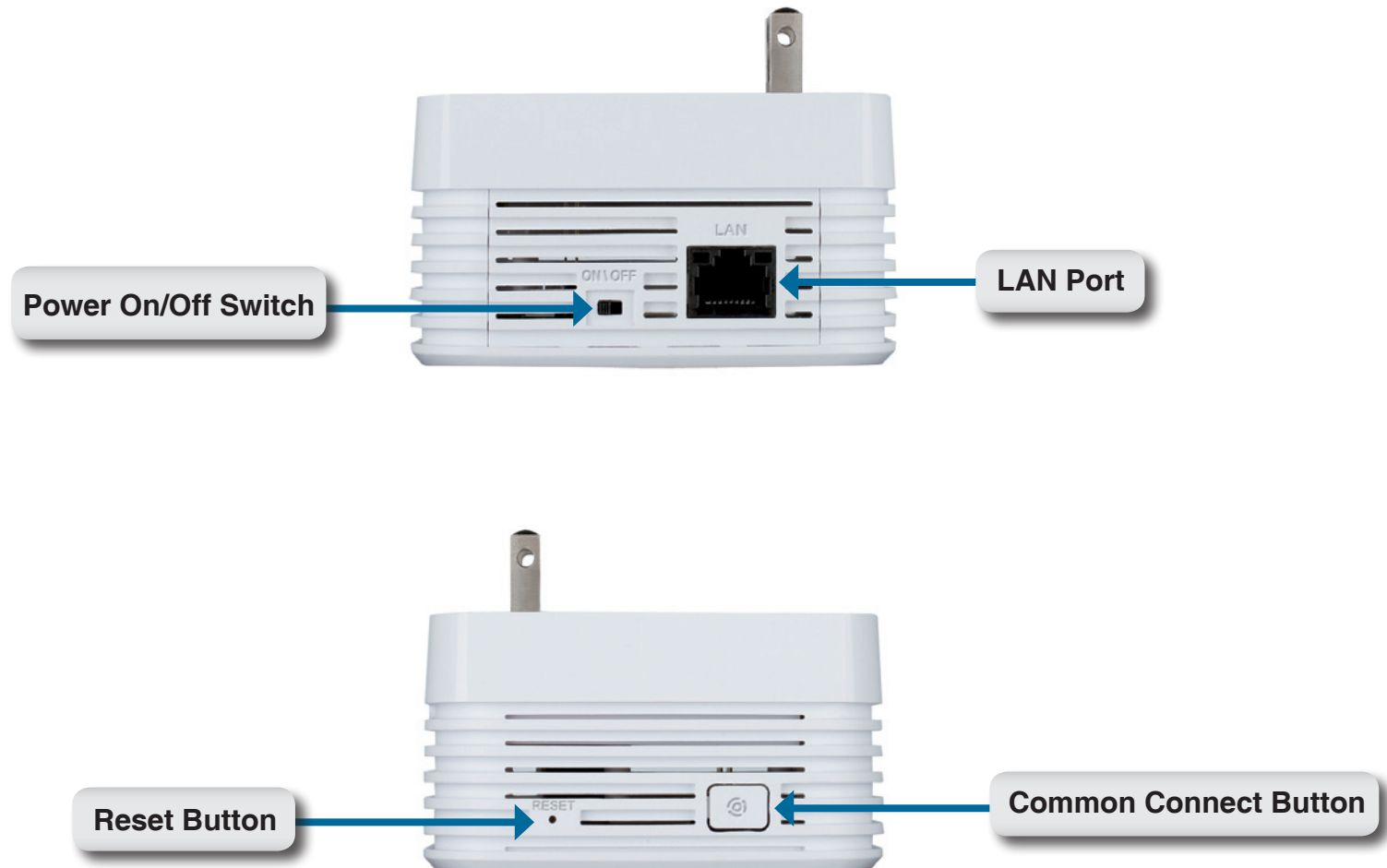
Hardware Overview

Connections



Hardware Overview

Side

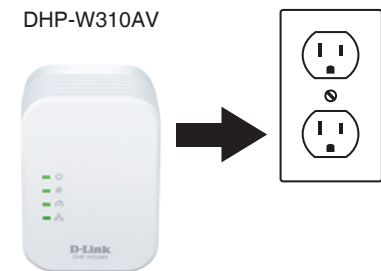


Installation

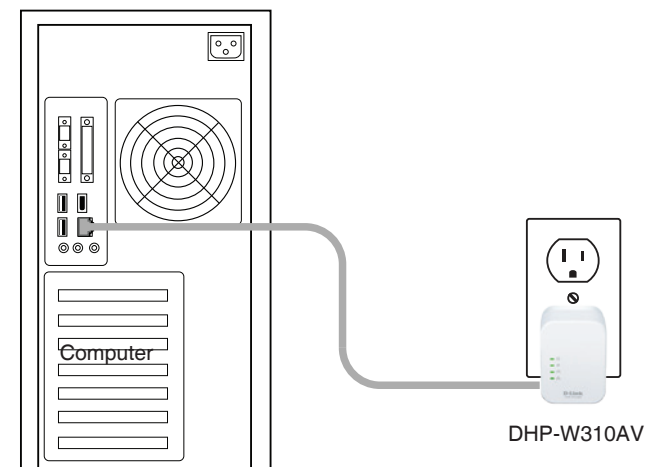
Connecting the Powerline AV Adapter

It is easy to connect the DHP-W310AV simply by performing the following instructions:

1. Plug the DHP-W310AV into the wall outlet/socket.



2. Connect one end of the supplied CAT5 Ethernet cable to the Ethernet port on the DHP-W310AV and the other end of the cable to the device's Ethernet interface. You can also enable wireless to connect to the WiFi devices using WPS.



Technical Specifications

DEVICE INTERFACES

- One RJ-45 Ethernet LAN ports
- 802.11n WLAN (AP wireless connection to computers)
- Common connect button
- Power ON/OFF switch
- Reset button
- Over 200Mbps Powerline

WIRELESS LAN

- 802.11b/g standards
- 802.11n standard
- Wireless speed: up to 300 Mbps (802.11n)
- 64/128-bit WEP data encryption
- WPA/WPA2 (Wi-Fi Protected Access)

ADVANCED FEATURES

- IPv6 support
- Multicast over Unicast Technology

OPERATION MODES

- AP 2.4 GHz

DIMENSIONS

- 90 x 65 x 50 mm

WEIGHT

- 500 grams (1.10 lb)

MAXIMUM POWER CONSUMPTION

- AC: 10 watts
- DC: 6 watts

TEMPERATURE

- Operating: 0 to 40 °C (32 to 104 °F)
- Storage: -20 to 65 °C (-4 to 149 °F)

HUMIDITY

- Operating: 10% to 90% non-condensing
- Storage: 5% to 95% non-condensing

CERTIFICATIONS

- CE/LVD
- FCC
- IC
- UL
- CB
- Homeplug AV
- IPv6

¹. Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n 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 conditions will adversely affect wireless signal range.

². Range varies depending on country's regulation.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Declaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

注意！

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。