

# D-Link®

## amPLiFi POWERLINE 500



**HD** Blazing Speeds – up to 500Mbps<sup>1</sup> for multiple HD streams

 Ready to use - simply plug into an existing power outlet<sup>2</sup>

 Connect up to 4 devices - great for entertainment centers

amPLiFi™

## PowerLine AV 500 4-Port Gigabit Switch

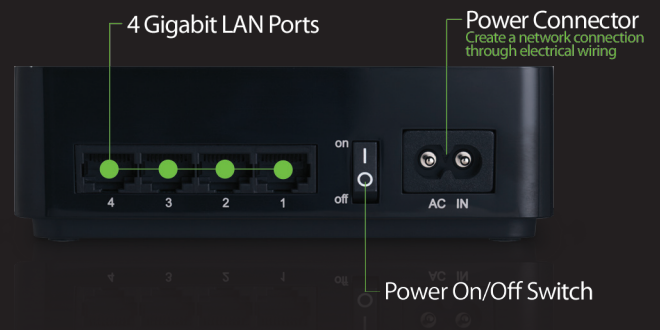
Add a connection to your PowerLine network

DHP - 540

### PowerLine AV 500 4-Port Gigabit Switch

No configuration needed, just plug in and you're connected

The PowerLine AV 500 4-Port Gigabit Switch uses electrical wiring that's already in your house to provide fast, reliable speeds of up to 500Mbps<sup>1</sup> to any room in your house. With 4 Gigabit Ports, you can connect four devices per room and get blazing speeds in each room. It's the perfect solution for an entertainment center.





## PowerLine AV 500 4-Port Gigabit Switch

PowerLine uses a building's existing electrical wiring to turn any power outlet into a fully functioning Ethernet port and transform your entire home into a wall-to-wall network, instantly. Now you can take that same revolutionary PowerLine technology and extend your network to give up to 4 of your favorite connected devices their own Gigabit Ethernet port with, 500Mbps speed, and QoS prioritization experience seamless digital entertainment and performance anywhere in your home or small office. Just pair the Switch with any PowerLine AV Adapter and that's it – D-Link's Simple Connect button connectivity and security will set up your network, instantly.

*Pair your switch with any of our PowerLine AV Adapters. You'll have all you need to build a wall-to-wall home network, instantly.*

## Give Your Favorite Devices Their Own Gigabit Ethernet Port. They'll Love You For It.

Boasting transfer rates up to 500Mbps and D-Link's QoS Traffic Optimization Technology Engine to prioritize bandwidth, the DHP-540 PowerLine AV 500 4 Port Gigabit Switch has the performance and the smarts to handle any digital demands you can throw at it. With this switch in your home you can organize and manage your traffic flow and get the most out of your broadband connection. Go Ahead: Skype, download, stream, chat, game, surf – PowerLine lets you do it all at once, from anywhere in your home without annoying glitches or lags in your digital entertainment.

## Connect to Anything, Anywhere: PowerLine Meets Your Digital Demands.

Run your desktop and multiple laptops off your wireless router upstairs and simultaneously power and prioritize bandwidth for your entire digital entertainment center in the basement.

With a PowerLine AV 500 4 Port Gigabit Switch you can extend any existing PowerLine network to deliver 500Mbps speed and connectivity over the existing wiring of your building's electrical system. HDTVs, the Boxee Box by D-Link, Blu-Ray Players, network storage drives, Xbox® 360, Playstation 3, security cameras - power them all, all at once, without annoying glitches or lags. With a PowerLine AV 500 4 Port Gigabyte Switch you not only have the freedom to connect your favorite devices anywhere you need them, but also the 500Mbps speed. QoS bandwidth optimization to prioritize heavier traffic, and deliver seamless digital entertainment.

*Need more coverage? Check out our individual AV Adapters and extend your PowerLine network exactly where you need it.*

## Create a Wall-To-Wall Home Network, Instantly.

PowerLine technology transmits data along the wiring of a building's existing electrical system, providing a secure and reliable broadband connection to places impossible to reach with a wireless signal. Use your PowerLine AV 500 4 Port Gigabit Switch to extend your PowerLine network and deliver performance 500Mbps connectivity exactly where you need it. Just connect your Internet source device to any PowerLine Adapter, plug the PowerLine AV 500 4 Port Gigabit Switch into any electrical outlet, and connect up-to 4 high-performance devices to the Switch. It's that simple. Power your entertainment center and keep your home clean and cable-free. PowerLine is the ideal networking solution for homes where concrete walls, successive floors in multi-storied buildings, or other architectural impediments can significantly weaken wireless coverage and create dead spots.

Need to build a PowerLine network from scratch? Check out the The PowerLine AV 500 Adapter Starter Kit. It has everything you need to build a custom PowerLine network from the ground up.



## Get Wireless Freedom and Wired Reliability.

Because a PowerLine Network is hard-wired, there is no external 'ambient' interference common to even the most powerful wireless systems. PowerLine network technology is HomePlug AV compliant and works across phases in your building's electrical box to transmit data reliably by intelligently adapting to the strongest signal channels. Data and electricity transmit at very different frequencies, so there's never a problem of electrical interference or shorting with a PowerLine device.

## Setup? PowerLine is Plug and Play. And That's It.

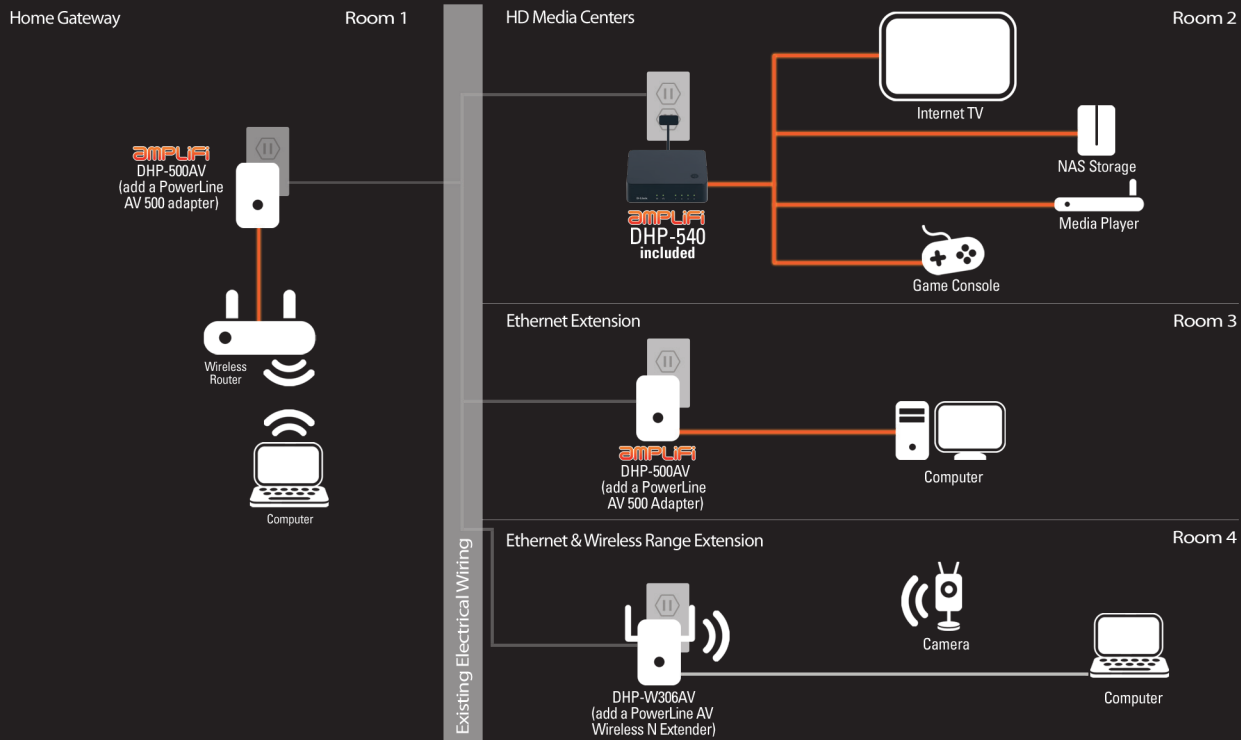
Extending your PowerLine network to your favorite high-performance devices with a DHP-540 PowerLine AV 500 4 Port Gigabit Switch is a cinch. Just plug it in to any conventional power outlet and D-Link's 'Simple Connect button' will establish a 128-bit security encrypted connection with your existing PowerLine network in a flash. With a DHP-540 PowerLine AV 500 4 Port Gigabit Switch there are no cables to run, holes to drill or wireless signals to configure – extending your existing PowerLine network is as easy as plug and play.

## Create An Ultra-Secure Home Network.

The DHP-540 PowerLine AV 500 4 Port Gigabit Switch protects your network with 128-bit AES data security encryption – the same technology used in E-commerce or online banking. Create your own network name and password or put it at the tip of your fingers with 'Simple Connect Security' standard on every PowerLine device. With hassle-free plug and play installation, and advanced security the DHP-540 PowerLine AV 500 4 Port Gigabit Switch is not only one of the fastest networking solutions available, it's also one of the safest.

## Get Ready for the Future - IPV6 Equipped

With the growing number of Internet-enabled applications requiring IP addresses, the supply of IP addresses under the current Internet Protocol version 4 (IPv4) system has already been exhausted. The IPv6 protocol solves this network addressing exhaustion by creating more IP addresses, but migration from IPv4 to IPv6 is not necessarily automatic. No worries - This D-Link product is IPv6 Certified and ready for the future.



\*A minimum of two D-Link PowerLine AV Network devices are required to create a network.

## Blazing fast speeds for HD Media



## Get bandwidth anywhere in your home



### Features

- + Connect up to 4 Ethernet-enabled devices per DHP-540
- + Gigabit ports for connecting high speed devices
- + Speeds up to 500Mbps<sup>1</sup>
- + Uses Your Home's Existing Electrical Wiring<sup>2</sup> by Plugging into Existing Power Outlets<sup>2</sup>
- + Power Saving Mode
- + Backward Compatible with HomePlug AV devices
- + Push and Secure encryption button
- + Supports 128-bit AES Encryption For Network Security
- + Plug & Play Installation
- + 24/7 Basic Installation Support<sup>3</sup>
- + 1-Year Limited Warranty<sup>4</sup>

### Think Green

D-Link Green™ devices are about providing eco-friendly alternatives without compromising performance. They are designed to help 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

- + Goes into power saving mode when no data link is detected after 5 minutes

#### Protecting The Environment

- + Complies with the European Union's RoHS directive that restricts the use of certain hazardous materials
- + Uses soy ink and recyclable packaging to help reduce waste that goes into the environment

<sup>1</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>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 effect 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> 24/7 Basic Installation Support is available only in the USA for the first 30 days from date of original purchase.

<sup>4</sup> 1-Year Limited Warranty available only in the USA and Canada.

<sup>5</sup> Latest Software and Documentation available at <http://support.dlink.com>.

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

Product specifications, 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 500 Adapters (DHP-501AV) may coexist with but are not compatible or interoperable with D-Link PowerLine HD Ethernet Kit (DHP-301) or D-Link PowerLine HD Network Starter Kit (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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### Technical Specifications

#### STANDARDS

- + IEEE 802.3
- + IEEE 802.3u
- + Compatible with IEEE 1901
- + HomePlug AV

#### ETHERNET INTERFACE

- + Four 10/100/1000 Base-TX Ethernet Port with Auto MDI/MDIX
- + RJ-45 Connector

#### MAXIMUM PHY RATE

- + 500 Mbps<sup>1</sup>

#### POWERLINE FREQUENCY BAND

- + 2MHz to 70MHz QoS
- + Intergrated QoS prioritizes media and data

#### SECURITY

- + 128-bit AES encryption

#### LEDS

- + Power
- + Powerline
- + Ethernet

#### POWERLINE MODULATION SCHEME

- + OFDM Symbol Modulation

#### POWER INPUT

- + 110 ~ 240V AC, 50/60 Hz

#### 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

#### DIMENSIONS

- + 4" x 5.25" x 1.75"  
(100mm x 133mm x 145mm)

#### WEIGHT

- + 0.55lbs (250g)

#### WARRANTY

- + 1-Year Warranty



For more help deciding which product to choose, scan this QR code with your Smartphone

## DHP-540

### Package Contents

- DHP-540:**
- + 1 PowerLine AV 500 4-Port Gigabit Switch
  - + 1 Ethernet Cable
  - + CD-ROM[8]
  - + Quick Install Guide

### Minimum Requirements

- For Configuration Utility, Computer with:**
- + 233MHz Processor
  - + 10MB Disk Space
  - + 64MB RAM
  - + CD-ROM Drive
  - + Network Interface Card
  - + Windows® 76, Windows Vista®, Windows® XP SP26, or Mac OS X7 (v10.4)
  - + Internet Explorer® v6 or Mozilla® Firefox® v3.0

- Power Range:**
- + 110 VAC, 50/60Hz

- For Internet Access:**
- + Cable or DSL Modem

- + Router
- + Subscription with an Internet Service Provider (ISP)

- For Network:**
- + Two or more PowerLine AV Devices