

## Product Highlights

### Extend Your Home Internet

PowerLine AV 500 enables you to stream HD movies without buffering, download faster and play online games with less lag

### Simple Setup

Simply plug it directly into a free power outlet<sup>1</sup> and it is ready to be used; no extra cables are needed

### Compact Size

Small size allows adapter to be less obstructive and conveniently used in many locations in your home or office



## DHP-509AV

# PowerLine AV 500 HD Starter Kit

## Features

### Standards

- IEEE 802.3
- IEEE 802.3u
- PowerLine interface compatible with IEEE 1901 and HomePlug AV

### Connectivity

- 10/100 Fast Ethernet Port
- RJ-45 Connector
- Power plug (country-dependent) for PowerLine
- Supports Auto Negotiation
- Supports IEEE 802.3x Flow Control

### Security

- 128-bit AES Data Encryption with key management for secure PowerLine communications

The DHP-509AV PowerLine AV 500 HD Starter Kit comes with two DHP-508AV PowerLine AV 500 HD adapters. These adapters use your electrical wiring to extend your home network to places where you currently have no Internet access as your wireless signal is not strong enough to reach (such as a garage or basement). Simply plug one adapter into your existing router to turn any power outlet in your home into an Internet connection and then plug the other adapter into the room you want to extend your connection to.

## PowerLine AV 500 for Bandwidth-Intensive Applications

The DHP-509AV features PowerLine AV 500 technology to provide rapid transmission speed, making it ideal for bandwidth-intensive applications, which guarantees smooth HD video streaming, Internet VoIP calls and lag-free online gaming experiences. This device provides ample network bandwidth, enabling digital home consumers to tap into existing electrical wiring for high-quality multimedia streaming.

## Convenient Setup and Secure Operation

The DHP-509AV PowerLine adapters plug directly into your home power sockets and do not require any additional cables. Extend your home network by connecting multiple devices in the furthest corners of your home or attach a switch or wireless access point to the adapter for additional connectivity. For convenient setup, an encryption key can be quickly configured with the push of a button. The adapters implement 128-bit AES data encryption to protect the network from unauthorised wire-tapping. With hassle-free plug and play installation, the DHP-509AV is an ideal solution to create a wall-to-wall home network.

## Power-Saving Feature

The DHP-509AV incorporates a power-saving mode to comply with the European Energy Using Product (EuP) Directive. If no data transmission or reception occurs over a certain period of time, the adapter will automatically go into sleep mode to save power, reducing power usage by more than 70% and allowing you to save energy automatically, without sacrificing performance.

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## QoS

A QoS engine will analyse and separate the traffic of the DHP-509AV adapters into multiple data streams. This allows for smooth streaming of on-demand Internet media streaming services such as Netflix and Amazon, HD video, and lag-free online gaming because the most demanding data streams are automatically given priority.



## Technical Specifications

### General

PowerLine Interface	• Power plug (country-dependent)	
Ethernet Interface	• Fast Ethernet Port	• RJ-45 Connector

### Functionality

Standards	• IEEE 802.3 • IEEE 802.3u	• HomePlug AV • IEEE 1901
Security	• 128-bit AES Data Encryption	
LEDs	• Power • Ethernet	• PowerLine
PowerLine Modulation Scheme	• OFDM Symbol Modulation	
PowerLine Frequency Band	• 2 to 68 MHz	
Data Rate	• Ethernet: 10/100 Mbps (autonegotiation)	• PowerLine: AV 500 <sup>2</sup>

### Physical

Dimensions	• 70 x 52 x 26 mm (each adapter)	
Weight	• 110.7 g (each adapter)	
Power	• Input: 100 to 240 V AC, 50/60 Hz	
Power Saving	• Power-saving mode supported	
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	
Humidity	• Operating: 10% to 90% non-condensing	
Certifications	• CE LVD • FCC	• UL • CE EMC Class B

<sup>1</sup> Power outlets and electrical wiring must all be part of the same electrical system. Certain electrical conditions in your home, such as wiring condition and configuration, may affect the performance of this product. Additional D-Link PowerLine AV series products are required to add new devices to the network. A minimum of two D-Link PowerLine AV series products 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 the adapter directly into a wall outlet.

<sup>2</sup> PowerLine AV 500 products feature a more efficient processor than PowerLine AV products to provide better performance and coverage. Maximum throughput is 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 or a touch-sensitive on/off feature, short wave radios, or other PowerLine devices that do not follow the HomePlug AV standard.



For more information: [www.dlink.com](http://www.dlink.com)

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