# D-Link®
**Building Networks for People**

## DHP-508AV
# PowerLine AV 500 Mini Adapter

## 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-508AV PowerLine AV 500 Mini Adapter is compliant with the HomePlug AV standard and uses your home's existing electrical wiring to create a network or extend your existing network.[1] It turns any power outlet into a network connection to access digital media devices, game consoles, print servers, computers, and network storage devices throughout your home.

### Powerline AV 500 for Bandwidth-Intensive Applications

The DHP-508AV features Powerline AV 500, enabling it to deliver data at speeds of up to 500 Mbps, higher than regular Powerline AV products. This rapid transmission speed makes it ideal for bandwidth-intensive applications, which guarantees smooth HD video streaming, 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-508AV plugs directly into a power outlet, and does not require any additional cables. Extend your home network by connecting multiple devices in the farthest 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 adapter implements 128-bit AES data encryption to protect the network from unauthorized wire-tapping. With hassle-free plug and play installation, the DHP-508AV is an ideal solution to create a wall-to-wall home network.
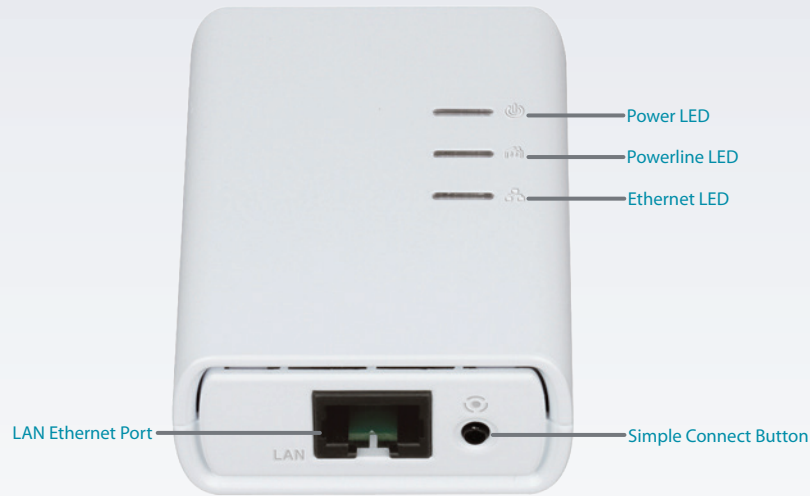
### Power-Saving Feature

The DHP-508AV 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.

## QoS

A QoS engine will analyze and separate the traffic of the DHP-508AV into multiple data streams. This allows for smooth streaming of Internet Protocol Television (IPTV), HD video, and lag-free online gaming because the most demanding data streams are automatically given priority.

## DHP-509AV Powerline AV 500 Mini Starter Kit

The DHP-508AV is also available in a starter kit that provides a complete Powerline solution. The DHP-509AV Powerline AV 500 Mini Starter Kit features two DHP-508AV adapters, allowing you to create and start using a Powerline network in your home right away.

Power LED
Powerline LED
Ethernet LED

LAN Ethernet Port

Simple Connect Button

## Technical Specifications

### General

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

### Functionality

| Standards | • IEEE 802.3<br>• IEEE 802.3u | • HomePlug AV<br>• IEEE 1901 |
|---|---|---|
| Security | • 128-bit AES Data Encryption | |
| LEDs | • Power<br>• Ethernet | • Powerline |
| Powerline Modulation Scheme | • OFDM Symbol Modulation | |
| Powerline Frequency Band | • 2 to 68 MHz | |
| Data Rate | • Powerline: Up tos 500 Mbps (PHY rate)[2] | • Ethernet: 10/100 Mbps (autonegotiation) |

### Physical

| Dimensions | • 70 x 52 x 26 mm (2.76 x 2.05 x 1.02 inches) | |
|---|---|---|
| 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<br>• FCC | • UL<br>• CE EMC Class B |

## Order Information

| Part Number | Description |
|---|---|
| DHP-508AV | PowerLine AV 500 Mini Adapter |
| DHP-509AV | Powerline AV 500 Mini Starter Kit (includes two DHP-508AV PowerLine AV 500 Mini Adapter) |

[1] 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.

[2] Powerline AV 500 products feature a more efficient processor than current 500 Mbps 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.

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