D-Link
Building Networks for People

Product Highlights

High-speed Data Streaming

Powerline AV500 allows for speeds of up to 500 Mbps over home electrical wiring, suitable for high-bandwidth activities like HD media streaming

Easy Security Setup

Activate security encryption for your connection with just the touch of a single button

Complete Powerline Solution

Set up and start using your Powerline network right away with the included DHP-W310AV and DHP-308AV

DHP-W311AV

PowerLine AV500Wireless N Mini Starter Kit

Features

Connectivity

- 10/100 Mbps Fast Ethernet LAN port to connect a wired device for high-speed activities
- Powerline interface compatible with IEEE 1901 and HomePlug AV devices
- IEEE 802.11n, backward-compatible with 802.11g/b (DHP-W310AV)
- IEEE1905.1 draft-compliant (DHP-W310AV)

Security Features

- Common Connect Button to activate WPS and Powerline encryption (DHP-W310AV)
- Simple Connect Button to activate PowerLine encryption (DHP-308AV)
- WPA/WPA2 encryption to secure your wireless traffic (DHP-W310AV)
- 128-bit AES Data Encryption for PLC PowerLine

Versatile Support (DHP-W310AV)

- IPv6 Support
- Web browser setup and configuration

The DHP-W311AV PowerLine AV500 Wireless N Mini Starter Kit allows you to set up and start enjoying the convenience and reliability of a high-speed wireless or Powerline network in your home right away. The DHP-W311AV features the DHP-W310AV PowerLine AV500 Wireless N Mini Extender and the DHP-308AV PowerLine AV500 Mini Adapter, giving you everything you need to create a high-speed Powerline network in your home.

Complete Powerline Solution

The DHP-W311AV features a PowerLine[1] network connection, compliant with the HomePlug AV standard, that uses your existing home electrical wiring to create or extend your home network. To set up a PowerLine network, just connect the DHP-W310AV into one power outlet and the DHP-308AV into another power outlet in another location in your home.

Enhanced Performance

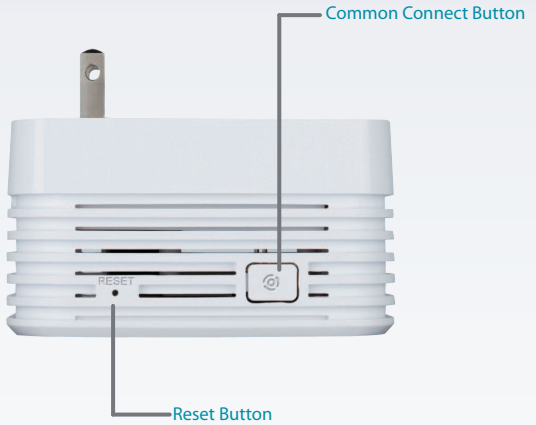
The DHP-W311AV PowerLine AV500 Wireless N Mini Starter Kit is capable of high speeds of over 200 Mbps for Powerline, making it faster than regular PowerLine AV products, enabling you to stream movies, download large files, and enjoy a fast Internet connection for Web surfing. The DHP-W310 and DHP-308AV also support Quality of Service features that ensure faster multimedia traffic by prioritizing multimedia data over non-multimedia data.

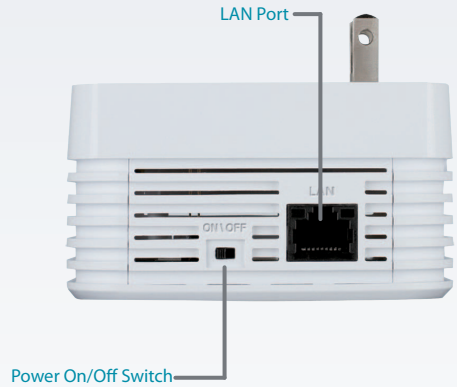
Secure Wired and Wireless Connection

The DHP-W311AV features 128-bit AES Data Encryption for PLC PowerLine to ensure a secure PowerLine network connection. The DHP-W310AV and DHP-308AV both feature a one-touch button to easily set up security. The DHP-W310AV has a Common Connect button that you press to set up either Wi-Fi Protected Setup (WPS) for your wireless connection or a secure Powerline connection, while the DHP-308AV features a Simple Connect button for setting up PowerLine encryption.

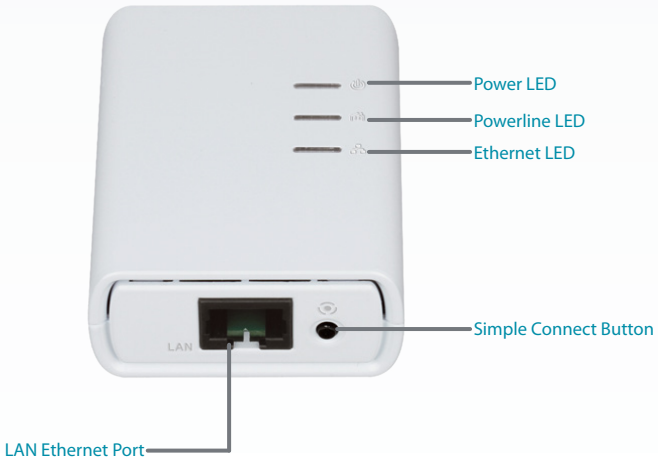
DHP-W311AV Powerline AV500 Wireless N Mini Starter Kit

DHP-W310AV





DHP-308AV



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DHP-W311AV PowerLine AV500 Wireless N Mini Starter Kit

DHP-308AV Powerline AV500 Mini Adapter Technical Specifications		
General		
Powerline Interface	• AU Power plug	
Ethernet Interface	• 10/100 BASE-TX Ethernet Port with auto MDI/MDIX	• 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 70 MHz	
Data Rate	• Powerline: Over 200 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	• Compliant with European Energy Using Product Directive
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

DHP-W311AV PowerLine AV500 Wireless N Mini Starter Kit

DHP-W310 PowerLine AV500 Wireless N Mini Extender Technical Specifications

General

Device Interfaces	• 10/100 Fast Ethernet LAN port with auto MDI/MDIX 802.11n WLAN	• Common Connect button • Power ON/OFF switch • Reset button
Wireless LAN	• 802.11n standard • 802.11g/b standards • Wireless speed: up to 300 Mbps (802.11n)[3]	• WPA/WPA2 (Wi-Fi Protected Access) • 64/128-bit WEP data encryption
Powerline	• HomePlug AV • IEEE1901	• Speed of over 200 Mbps[2] • Draft IEEE1905.1
Advanced Features	• IPv6 support • Power-saving Feature • Wi-Fi WMM Quality of Service	• Multicast over Unicast Technology • Powerline QoS

Physical

Dimensions	• 90 x 65 x 50 mm (3.54 x 2.56 x 1.97 inches)	
Power Input	• 100 V to 240 V AC, 50/60 Hz	
Power Consumption	• 6 watts	
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	
Humidity	• Operating: 10% to 90% non-condensing	
Certifications	• CE/LVD • FCC • UL	• RoHS • Homeplug AV • IPv6

Order Information

Part Number	*Description*
DHP-W311AV	Powerline AV500 Wireless N Mini Starter Kit (includes one DHP-W310AV Powerline AV500 Wireless N Mini Extender and one DHP-308AV Powerline AV500 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] 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.

[3] Maximum wireless signal rate derived from IEEE Standard 802.11 specifications when used with related Wireless N 150 devices. 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.

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