D-Link®
Building Networks for People

Product Highlights

High-speed Data Streaming

Enjoy Fast Ethernet, wireless IEEE 802.11n with speeds of up to 300 Mbps, and IEEE 1901 Powerline with speeds of over 200 Mbps

Easy-to-use Powerline Operation

Extend your home network easily and conveniently using your home's current electrical wiring

Secure Network Sharing

Securely connect a wireless or Powerline device with only the press of a button; no networking knowledge required

DHP-W310AV
Powerline AV 500 Wireless N Mini Extender

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
- IEEE1905.1 draft-compliant

Security Features
- WPA/WPA2 encryption to secure your wireless traffic
- Common Connect Button to activate WPS (Wi-Fi Protected Setup) and Powerline encryption
- 128-bit AES Data Encryption for PLC Powerline

Versatile Support
- IPv6 Support
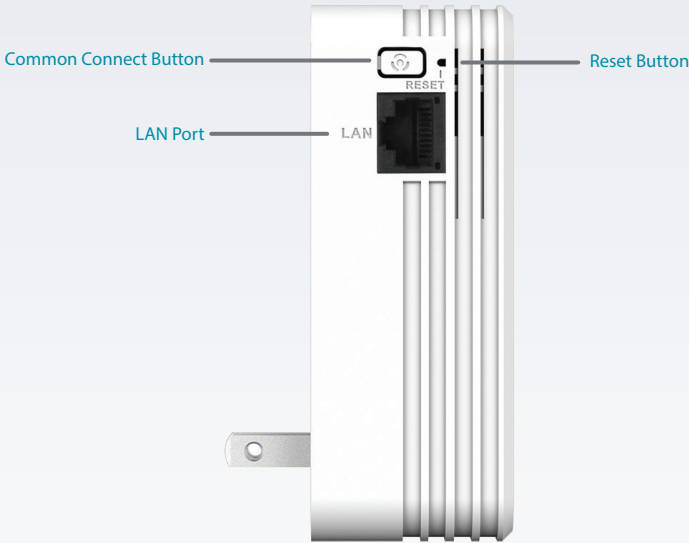- Web browser setup and configuration

The DHP-W310AV Powerline AV 500 Wireless N Mini Extender allows you to extend your existing home network to enjoy high-speed and reliable connectivity throughout your home. The Powerline AV 500 Wireless N Mini Extender features both wireless and Powerline. This allows you to benefit from Powerline[1] networking, compliant with the HomePlug AV standard, that uses your existing home electrical wiring to extend your home network. The wireless ability allows you to increase the area in your home where you can use your wireless devices.

Enhanced Performance

The DHP-W310AV Powerline AV 500 Wireless N Mini Extender is capable of high speeds of over 200 Mbps for Powerline and 300 Mbps for wireless, enabling you to stream movies, download large files, and enjoy a fast Internet connection for Web surfing. The DHP-W310AV supports the draft IEEE1905.1 standard for better ease of use for hybrid network setup and management. The DHP-W310AV also supports Wi-Fi Multimedia (WMM) Quality of Service to ensure faster multimedia transmission by prioritizing multimedia data over other kinds of data.

Secure Connections and Ease of Use

The DHP-W310AV features WPA/WPA2 and WEP wireless encryption to ensure a secure wireless network connection. The DHP-W310AV features a Common Connect button to easily set up either a wireless connection through WPS (Wi-Fi Protected Setup), or create a secure Powerline connection.

Common Connect Button

Reset Button

LAN Port

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/g/b • 802.11n speeds of up to 300 Mbps[2]	• WPA/WPA2 (Wi-Fi Protected Access) • 64/128-bit WEP data encryption
Powerline	• HomePlug AV • IEEE1901	• Transfer speeds of over 200 Mbps[3] • Draft IEEE1905.1
Advanced Features	• IPv6 support • Power-saving • Wi-Fi WMM Quality of Service	• Multicast over Unicast Technology • Powerline QoS

Physical

Dimensions	• 105 x 58 x 40 mm (4.13 x 2.28 x 1.57 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-W310AV	Powerline AV 500 Wireless N Mini Extender
DHP-W311AV	Powerline AV 500 Wireless N Mini Starter Kit (includes one DHP-W310AV Powerline AV 500 Wireless N Mini Extender and one DHP-308AV 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] 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.

[3] 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.

Updated 2014/12/10

D-Link®

Building Networks for People