

Use electrical home power outlets to build your network



POWERLINE HD ETHERNET STARTER KIT

INTERNET VIDEO, VOICE OVER ELECTRICAL WIRES

Up to 200Mbps speed. Video/voice distribution, broadband Internet over home's electrical wires

QUALITY OF SERVICE

Prioritized traffic for streaming video, on-line games, Internet phone, music

TOTAL SECURITY

Data encryption/Net ID to keep out intruders in building, VLAN isolation to protect home network from being tapped



USE EXISTING WIRING TO CREATE A HOME NETWORK

D-Link's PowerLine HD Ethernet Starter Kit DHP-301 is an ideal solution for connecting computers, HD media players, game consoles, and network attached storage to your home network. By simply attaching one adapter from your router into your existing electrical system, ¹ you can turn every power outlet into a possible network connection.

200Mbps TRANSMISSION OVER ELECTRICAL WIRES

D-Link's PowerLine HD is a new-generation power line network that provides easy-to-use technology for high-quality transfers of Internet video, music, games and voice through the conventional home power sockets. Delivering data transfer rates of up to 200Mbps, ² D-Link's PowerLine HD provides ample bandwidth, enabling digital home consumers to tap into the existing electrical wiring for extension of their home network.

EXPAND YOUR NETWORK WITHOUT RUNNING WIRES

D-Link's PowerLine HD Ethernet technology extends your network's range without drilling holes into walls by utilizing your home's existing electrical system. It is also ideal for homes or small offices where concrete walls, successive floors in multi-storied buildings, or other architectural impediments could inhibit a wireless signal. Connect multiple devices in the farthest corners of your home by attaching a switch or wireless access point to a D-Link PowerLine HD Ethernet Adapter. ¹

CONVENIENTLY CONNECT

D-Link's PowerLine HD Ethernet Adapter transmits data reliably by intelligently adapting to the strongest signal channels. Electrical currents don't interfere with the data network because electricity and data are transmitted at very different frequencies. In addition to a maximum throughput, D-Link's PowerLine HD includes a built-in Quality-of-Service (QoS) engine that prioritizes data packets in order to enhance HD video and audio streaming, intense online gaming, and VoIP calling. Plus, D-Link's Powerline HD implements 3DES encryption for securing your connection to help keep your data safe from intruders.

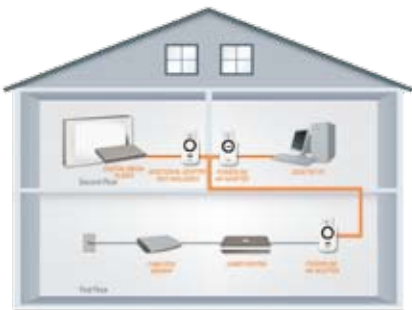
WHAT THIS PRODUCT DOES

D-Link's PowerLine HD Ethernet Starter Kit DHP-301 takes advantage of your home's existing electrical wiring ¹ to create or extend a network. Turn every power outlet into a possible network connection to connect computers, digital media players, and game consoles throughout your house.

FAST TRANSMISSION ON HOME POWERLINE

D-Link's PowerLine HD uses the latest technology to deliver up to 200Mbps wired speed over a premise's existing electrical wires. ² This transmission speed provides ample bandwidth to stream high-quality video HDTV signals, while simultaneously providing high-speed Internet access throughout an entire home. With QoS support, D-Link's PowerLine HD does not compromise applications with real-time requirements, such as VoIP Internet phone and multiplayer on-line games, while allowing you to enjoy Internet TV and music in your living room.

YOUR NETWORK SETUP



Power Prongs (Country Dependent) ²
To AC Wall Outlet

RJ-45 10/100BASE-TX Ethernet Ports
To TV Set-Top Box, Computers, Game Console,
Network Storage Device, Media player

TECHNICAL SPECIFICATIONS

STANDARD

IEEE 802.3 Ethernet/ 802.3u Fast Ethernet

POWER LINE INTERFACE

- + Power prongs
- + Connector: country-dependent ³

ETHERNET INTERFACE

- + Port: 10/100BASE-TX with auto MDI/MDIX
- + Connector: RJ-45

POWER LINE MODULATION SCHEME

OFDM Symbol Modulation

POWER LINE FREQUENCY BAND

2MHz to 32MHz

DATA RATE

- + Power Line: 200Mbps (PHY rate) ²
- + Ethernet: 10/100Mbps (auto-negotiation)

QoS

- + 802.1P Priority Queues standard

SECURITY

- + 3DES data encryption
- + User-configurable Net ID (data encryption key)
- + 802.1Q VLAN Tagging (fixed value, not user-configurable)

MINIMUM SYSTEM REQUIREMENTS

- (To run Utility Program)
- + PC with 233MHz processor
- + 64MB memory
- + Windows XP SP2 or 2000 SP4
- + Ethernet adapter (100Mbps)

DIAGNOSTIC LED

- + Power Line Link
- + Power Line Activity
- + Ethernet Link/ Activity

AC INPUT

100 to 240VAC, 50/60Hz, 160mA

DIMENSIONS

(Per adapter)
101 x 71 x 37 mm
(3.98 x 2.79 x 1.46 inches)

WEIGHT

(Per adapter)
172 grams (0.379 lb)

OPERATION TEMPERATURE

0° to 40°C (32° to 104°F)

STORAGE TEMPERATURE

-20° to 70°C (-4° to 158°F)

OPERATION HUMIDITY

10% to 95% RH non-condensing

STORAGE HUMIDITY

10 to 90% RH non-condensing

EMC

+ FCC Part 15 Class B
+ CE

SAFETY

UL

MTBF

100,000 hours or higher

¹ Power outlets and electrical wiring must all be part of the same electrical system. Additional PowerLine HD Ethernet adapters are required to add new devices to the network.

² Maximum throughput based on theoretical data rate. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, and network overhead, lower actual throughput rate.

³ Power prongs can differ from illustration. Power prong type depends on the country to which the product is shipped.



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