

## Expand and Enhance Your Home Network with Gigabit Powerline



- The HomePlug AV2 standard creates powerline networks with data transfer rates of up to 1200 Mbps\*
- Enjoy high-speed networking and complete coverage through Line-Natural/Line-Ground MIMO\*\* technology
- No extra wires or configuration required
- Perfect for connecting smart TVs and playing online games
- QoS enhances media streaming quality
- Single push-and-secure button for easy security setup
- Compliant with IEEE 1901 and HomePlug AV technology
- Multi-color LED indicates powerline network quality
- Energy-saving feature offers efficient power management and cost savings
- TR-069 support for remote management and automatic configuration update\*\*\*

The ZyXEL PLA5405 1200 Mbps Powerline Gigabit Ethernet Adapter is based on the latest HomePlug AV2 standard and features data transfer rates of up to 1200 Mbps\*. The Powerline adapter plugs into an existing power outlet and instantly enables high-speed network access through a home's electrical lines. The device offers a perfect solution for streaming HD movies, playing online games and enjoying other network-intensive applications—all without the hassle of installing cables throughout the residence. Featuring the latest HomePlug AV2 MIMO\*\* technology, the PLA5405 utilizes multiple lines from your home's existing electrical wiring, whereas non-MIMO based HomePlug AV technology uses a single line. This enables the PLA5405 adapter to perform at up to twice the speed of existing 600 Mbps\* Powerline products.

### Benefits

#### Enjoy high-speed networking and increased coverage through MIMO capabilities\*\*

With advanced HomePlug AV2 technology, the ZyXEL PLA5405 provides users with steady, high-speed data transfer rates of up to 1200 Mbps\* and is backward compatible with HomePlug AV and IEEE 1901 based products. The new HomePlug AV2 Multiple Input Multiple Output (MIMO) feature increases throughput and coverage. The PLA5405 extends your home connectivity range by up to 80% using all three electrical wires—line, neutral and ground. The device connects your entire home entertainment network, making it the perfect choice for users who wish to enjoy HDTV and multimedia streaming to every room.

Powerlines today use 1 electrical path to transfer data across



Powerline with MIMO can use additional path(s) to transfer data



*Powerline with MIMO technology  
2x speed and 4x more reliable*

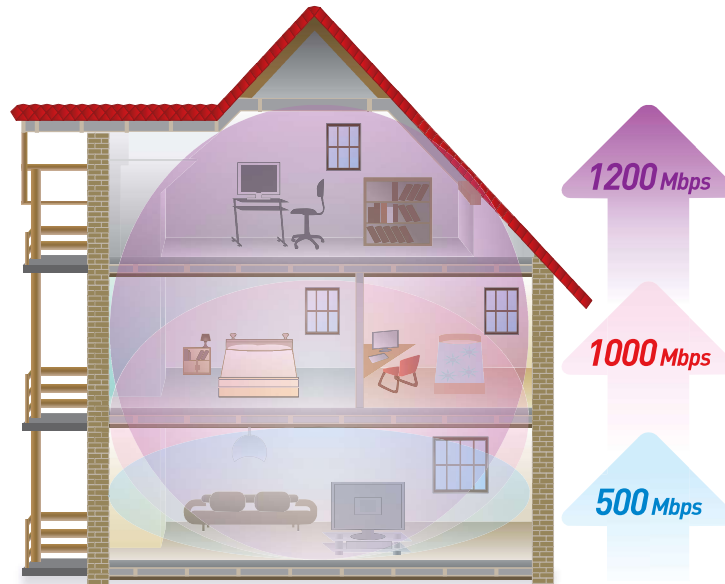


**PLA5405**  
1200 Mbps Powerline  
Gigabit Ethernet Adapter



### Ideal for multimedia streaming

The ZyXEL PLA5405 provides speeds of up to 1200 Mbps\*, accelerating network applications like HDTV, multimedia HD streaming and online gaming. Users can easily transmit multiple HD streams and even 3D movies to every room quickly and smoothly.



### No additional wires or configuration required

The ZyXEL PLA5405 creates a network by piggybacking on your home's existing electrical wiring system, easily extending your Internet around your home via a simple connection to a power outlet. There's no need to drill through walls or lay new network cabling. No configuration is required. Simply connect your PC to a PLA5405 and plug it into a power outlet. You've now created a super-fast, secure and dependable home network.

#### Step 1.

Plug into power outlet and connect to your router



#### Step 2.

Connect another Powerline to Smart TV



#### Step 3.

Enjoy high speed, stable connectivity!



### Perfect for streaming media and playing on-line games

The ZyXEL PLA5405 provides speeds of up to 1200 Mbps\*, accelerating network applications like HDTV, multimedia HD streaming and online gaming. Users can easily transmit multiple HD streams and even 3-D movies to every room quickly and smoothly.



### QoS enhances media streaming quality

The advanced Quality of Service (QoS) feature improves the quality of multimedia streaming applications such as triple-play services by prioritizing traffic, HD video streaming, high-speed Internet access and VoIP.

### Easy home network security setup

Data transmitted through the ZyXEL PLA5405 is protected by 128-bit Advanced Encryption Security (AES) to provide a secure connection to the Internet. The encryption mechanism can be configured with a simple press of a button. No complicated setup or additional software is required.

### Remote management through TR-069\*\*\*

By adopting the TR-069 standard, the ZyXEL PLA5405 can enable service providers to remotely manage and configure the devices without any user intervention. Moreover, it can offer a "plug-and-play" experience to simplify deployment while reducing, operational and maintenance expenses for service providers.

### A green product that reduces energy consumption

When there is no Ethernet connection for 60 seconds, the ZyXEL PLA5405 will enter a power-saving mode that consumes only 0.5 watts, saving 80% more energy than comparable adapters without this function.

## Specifications

### System Specifications

#### Standard

- Compliant with HomePlug AV2
- IEEE 1901 and HomePlug AV standard

#### Powerline Data Rate

- Transmit: up to 1200 Mbps\*
- Receive: up to 1200 Mbps\*

#### Access Methods

- CSMA/CA channel-access schemes

#### Range

- Max. range up to 300 meters over power line

#### Power Saving Mode

- When there is no Ethernet link in 60 seconds

#### Security

- 128-bit AES encryption

#### Quality of Service (QoS)

- ToS
- Supports up to 4-level type QoS

#### Frequency Band

- 2 ~ 86 MHz

#### Dynamic Neighbor Network Support

#### IGMP

- IGMP v1/v2/v3

#### System Requirements

- Operating system independent:
  - Ethernet: RJ-45
- Utility Software OS support:
  - Microsoft Windows XP/Vista/7/8

### Hardware Specifications

- Ethernet interface: One 10/100/1000 Mbps RJ-45 connector with auto MDI/MDIX support
- LED indicators:
  - Power on/off
  - Powerline network quality:
    - Green: Best; Amber: Better; Red: Good
  - Ethernet link/activity
- Button:
  - Encrypt/Reset button
- Power rating: 100 to 240 V AC, 50/60 Hz
- Power consumption:
  - Full operation: 4 watt max.
  - Power-saving mode: 0.5 watt max.
- Plug type:



- EU type: Three pins for EU 220 V



- US type: Three pins for US 120 V



- UK type: Three pins for UK 240 V

### Physical Specifications

- Item dimensions (WxDxH):
  - 93 x 63 x 27 mm (3.66" x 2.48" x 1.06")
- Item weight: 95 g (0.21 lb.)
- Packing dimensions (WxDxH):
  - 151 x 176 x 85 mm (5.94" x 6.92" x 3.34")
- Packing weight: 355 g (0.78 lb.)

### Environmental Specifications

#### Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% (Non-condensing)

#### Storage Environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

### Certification

- Safety: CE-LVD, IEC
- EMC: CE, FCC, BSMI

### Packing Contents

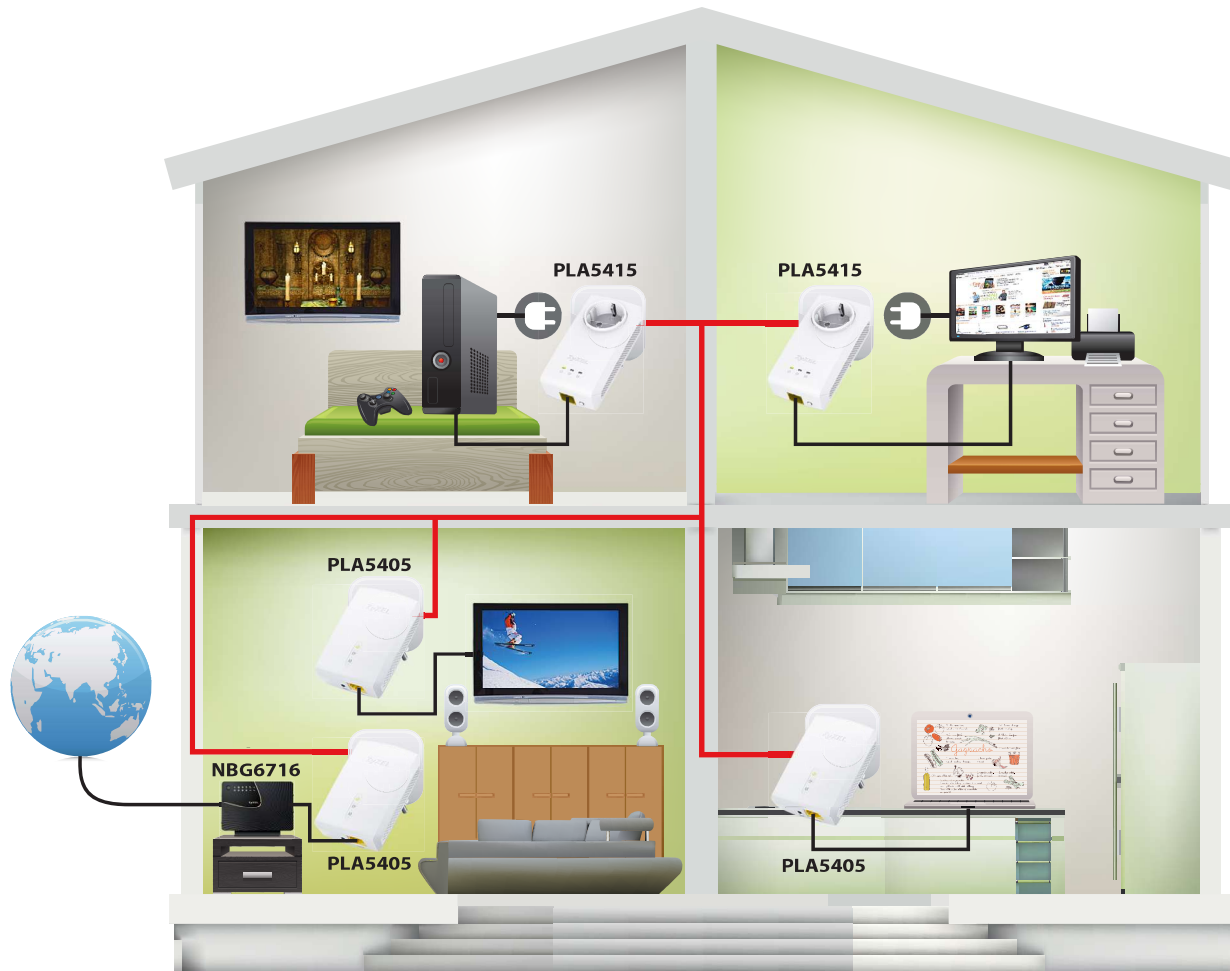
- Powerline adapter
- Ethernet cable
- Quick start guide
- Support CD
- Warranty card

\* The theoretical maximum channel data transfer rate is derived from HomePlug AV2 specifications. Actual data transfer rate will vary from network environment including: distance, network traffic, noise on electrical wires, quality of electrical installation and other adverse conditions.

\*\* The MIMO transmission is limited with the ground pin environments such as connectivity, distance, quality of electrical installation and other adverse conditions.

\*\*\* Future request by project based

### Application Diagram



For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)

