# ZyXEL



## ZyXEL green

www.zyxel.com/green

- **Plug-and-play for easy installation**
- **Data transfer rates of up to 500 Mbps\* for video streaming and gaming**
- **Compliant with IEEE 1901 and compatible with HomePlug AV**
- **Gigabit Ethernet port provides faster wired connection**
- **QoS enhances media streaming quality**
- **Power-saving mode reduces energy waste**
- **Encrypt button for easy security setup**
- **128-bit AES encryption for a secured network**
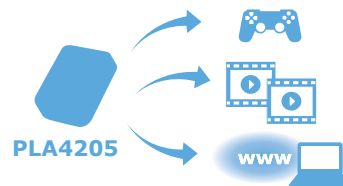- **Multi-colored LED identifies powerline network quality**

## PLA4205

### 500 Mbps Powerline Gigabit Ethernet Adapter

# Power Up Your Home Network with Blazing Speed!
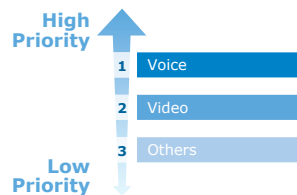
## Benefits

### Enjoy stable HD videos and gaming

Powered by the latest IEEE 1901 technology and a Gigabit Ethernet port, ZyXEL's 500 Mbps Powerline Gigabit Ethernet Adapter can provide a stable high-performance network for you to enjoy multiple HD streams, multiplayer gaming and Web surfing simultaneously. With a pair of plug-and-play PLA4205 installed, you can easily extend your home network through any electrical outlet for Internet access by HDTVs, Blu-ray™ players, DVRs, PCs and game consoles.



PLA4205

### QoS enhances media streaming quality

The advanced  Quality of Service (QoS) features improve the quality of multimedia streaming applications such as Triple Play services, HD video streaming, high-speed Internet access and VoIP.



High Priority

1 Voice
2 Video
3 Others

Low Priority

### Green product reduces energy consumption

When there is no Ethernet link, the PLA4205 will enter a power-saving mode, reducing energy consumption by around 80% when compared to adapters without this function.

### Easy security setup

Data transmission is protected by 128-bit Advanced Encryption Security (AES) security to provide a secure connection to the Internet. Encryption can be configured by a simple button press on both of your PLA4205s; there's no complicated setup or software required to be run.



Power-Saving Mode

# ZyXEL

## PLA4205
### 500 Mbps Powerline Gigabit Ethernet Adapter

# Specifications

## System Specifications

**Standard**
- Compliant with IEEE 1901 with data transfer rate of up to 500 Mbps*
- Compatible with HomePlug AV standard

**Access Methods**
- CSMA/CA channel-access schemes

**Range**
- Max. range up to 300 meters over power line

**Power Saving Mode**
- If link is inactive for a period (default setting: 60 seconds)

**Security**
- 128-bit AES encryption

**Quality of Service (QoS)**
- ToS
- Support up to 4-level type QoS
- Support up to 8-level VLAN priority field

**Frequency Band**
- 2 MHz - 67.5 MHz

**Dynamic Neighbor Network Support**

**IGMP**
- IGMP snooping for multicast to multiple unicast mapping

**System Requirements**
- Deployment requirements :
  - Devices with 10/100 or 10/100/1000 Mbps Ethernet port
  - Operates system independent
- Utility software OS support:
  - Microsoft Windows XP/Vista/7

## Hardware Specifications

- Ethernet interface: one 10/100/1000 Mbps RJ-45 connector with auto MDI/MDIX support
- LED indicators:
  - Power on/off
  - Powerline link/quality
    - Green: Best, Amber: Better, Red: Good
  - Ethernet link/activity
- Buttons:
  - Encrypt button
  - Reset button
- Power rating: 100-240 V AC, 50/60 Hz
- Power consumption:
  - Full operation: 5 watt max.
  - Power-saving mode: 1 watt max.
- Plug type:

| EU type | US type | UK type |
|---------|---------|---------|

- EU type: Two pins for EU 220 V - 230 V
- US type: Two pins for US 120 V
- UK type: Three pins for UK 240 V

## Physical Specifications

- Item dimensions (WxDxH):
  71 x 65 x 95 mm (2.79" x 2.56" x 3.74")
- Item weight: 134 g (0.29 lb.)
- Packing dimensions (WxDxH):
  134 x 94 x 178 mm (5.27" x 3.7" x 7.01")
- Packing weight:
  - Single pack: 418 g (0.91 lb.)
  - Starter kit pack: 551 g (1.21 lb.)

## Environmental Specifications

**Operating Environment**
- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 20% to 90% (Non-condensing)

**Storage Environment**
- Temperature: -20°C to 70°C (-4°F to 158°F)
- Humidity: 20% to 95% (Non-condensing)

## Certification

**Safety**
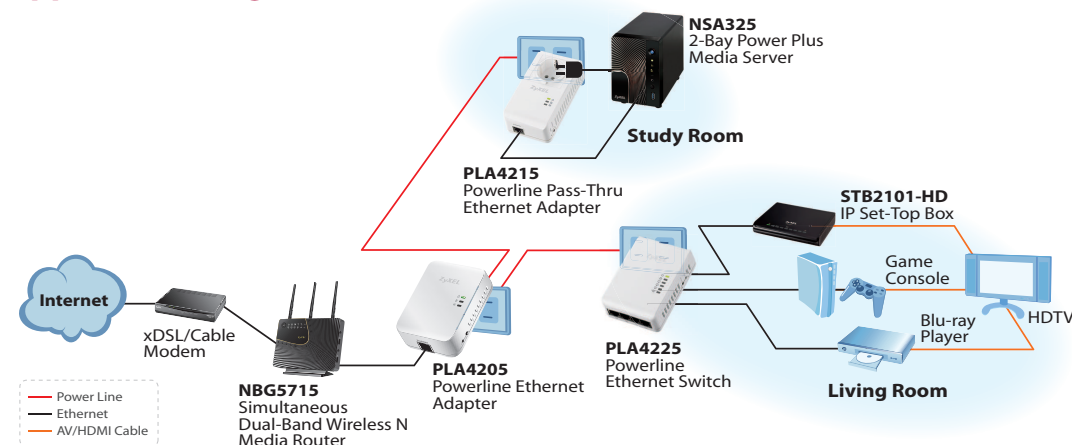- CE-LVD
- UL/cUL

**EMC**
- CE, FCC

## Package Contents

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

*The theoretical maximum channel data transfer rate is derived from IEEE 1901 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.

# Application Diagram

**NSA325**
2-Bay Power Plus Media Server

**Study Room**

**PLA4215**
Powerline Pass-Thru Ethernet Adapter

**STB2101-HD**
IP Set-Top Box

Game Console

Blu-ray Player

HDTV

Internet

xDSL/Cable Modem

**NBG5715**
Simultaneous Dual-Band Wireless N Media Router

**PLA4205**
Powerline Ethernet Adapter

**PLA4225**
Powerline Ethernet Switch

**Living Room**

— Power Line
— Ethernet
— AV/HDMI Cable

**For more product information, visit us on the web at www.ZyXEL.com**

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