

# ZyXEL



## Extend Your Home Power Lines to the Whole-home Wireless Network

# N 300

- Easily extends home networks wirelessly through the existing powerline network
- Plug-and-play, compact design
- Improve performance for up to 60% with the IEEE 1901 500 Mbps technology\*
- Backward-compatible with the 200 Mbps HomePlug AV standard
- Simple setup with the easy-to-use wizard and WPS button
- QoS enhances media streaming quality
- Power on/off switch enables easy energy saving
- Multi-color LED identifies powerline network signal quality

The ZyXEL PLA4231 500 Mbps Powerline Wireless N Extender provides not only a stable networking environment to stream high-definition videos, music and other multimedia, but also extends the wireless network to every room in the house.

### Benefits

#### Easily extends network range to cover wireless devices

Compatible with 802.11 b/g/n wireless networks, the ZyXEL PLA4231 can extend the coverage to connect your wireless devices throughout the house over the existing powerline network. Just plug powerline adapters and PLA4231 into electric outlets in different rooms, then you can easily extend your powerline home network like a wireless network. You can easily stream videos, enjoy games and surf Web sites on tablets, laptops or smartphones anywhere at home, even at the hard-to-reach places. The two Ethernet ports on the device make it easy to provide Internet access for HDTVs, Blu-ray™ players, DVRs, PCs and game consoles.

#### Enjoy stable HD videos and gaming

Powered by IEEE1901 500 Mbps technology\*, the ZyXEL PLA4231 can improve network performance for up to 60% comparing to the 200 Mbps powerline technology.\*\* The advanced Quality of Service (QoS) features also improve the streaming quality of multimedia applications. You can have stable high-performance network and enjoy multiple HD streaming, multiplayer gaming and Web surfing simultaneously.

#### Green products reduce energy consumption

The ZyXEL PLA4231 features a power on/off button that allows you to easily turn off the device when it's not in use, so you can also do your part to save energy for a more eco-friendly environment.

#### Easy security setup

ZyXEL's PLA4231 features an easy setup wizard and a WPS button that allows you to set up the extender and connect to wireless devices easily and quickly. Data transmission is protected by the 128-bit Advanced Encryption Security (AES) mechanism to provide a secure connection to the Internet. Encryption can be configured through a simple button press on the powerline adapters and PLA4231—no complicated setup or software is required.



**PLA4231**  
500 Mbps Powerline  
Wireless N Extender



### Specifications

#### System Specifications

##### Standard

- 802.11 b/g/n compliant with data transfer rates of up to 300 Mbps\*
- Compliant with IEEE 1901 with data transfer rate of up to 500 Mbps\*
- Compatible with HomePlug AV standard

##### Access Methods

- Wireless: CSMA/CA
- Powerline: CSMA/CA
- Ethernet: CSMA/CD

##### Range

- Wireless: Max. range up to 300 meters
- Powerline: Max. range up to 300 meters

##### Security

- Wireless : 64/128 bit WEP, WPA-PSK/WPA2-PSK
- Powerline: 128-bit AES encryption

##### Quality of Service (QoS)

- Wireless:
  - Wi-Fi Multimedia (WMM)
- Powerline:
  - ToS
  - Support up to 4-level type QoS
  - Support up to 8-level VLAN priority field

##### System Requirements

- Utility software OS support: Microsoft Windows XP/Vista/7

##### WLAN Features

- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- MAC address filtering

#### Hardware Specifications

- Ethernet interface: Two 10/100 Mbps RJ-45 connectors with auto MDI/MDIX support
- LED indicators:
  - Power on/off
  - Wireless/WPS activity/on/off
  - Powerline network quality
    - Green: Best; Amber: Better; Red: Good
  - Ethernet 1 link/activity
  - Ethernet 2 link/activity
- Button/Switch:
  - Power on/off button
  - WPS button
  - Encrypt/Reset button
- Power rating: 100 - 240 V AC, 50/60 Hz
- Power consumption
  - Full operation: 8 watt max.
- Wireless link/activity
- Plug 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):  
99 x 60 x 37 mm (3.9" x 2.36" x 1.46")
- Item weight: 126 g (0.28 lb.)
- Packing dimensions (WxDxH):  
180 x 135 x 98 mm (7.08" x 5.31" x 3.86")
- Packing weight: 390 g (0.86 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

##### EMC

- CE, FCC, IC

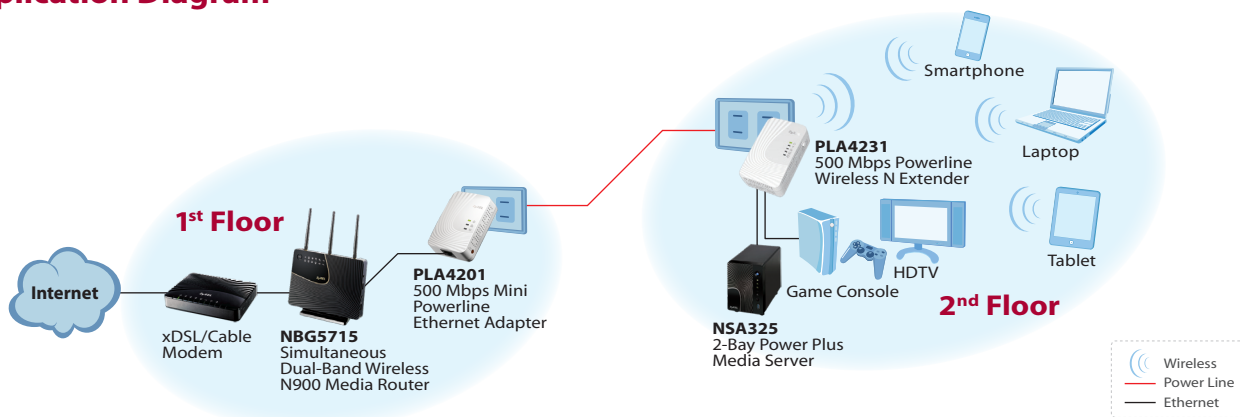
#### Package Contents

- Powerline Wireless N Extender
- Ethernet cable
- Quick start guide
- Support CD
- Warranty card

\*The theoretical maximum channel data transfer rate is derived from IEEE Standard 802.11 and 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. Ethernet connection will operate at the maximum of 100 Mbps.

\*\* Average throughput gain in typical homes.

### Application Diagram



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



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