ZyXEL

Superior Powerline Gigabit Adapter with Extra Plug-upgrade Home Network

- The newest HomePlug AV2 standard* enables powerline networks with up to 600 Mbps* data transfer rates

- SmartLink™ Plus** enhances performance and coverage through multiple-path transmission

- Plug-and-Play design for connecting smart TVs and game consoles

- AC pass-through design with embedded noise filter for reduced power interference

- Compliant with IEEE 1901 and HomePlug AV technology

- QoS enhances media streaming quality

- Encrypt button for easy security setup

- 128-bit AES encryption for network security

- Multi-color LED identifies powerline network quality

- Power-saving mode reduces energy waste

- TR-069*** standard for remote management and automatic configuration updates

ZyXEL green

PLA5215
600 Mbps Powerline Gigabit Pass-Thru Ethernet Adapter

The ZyXEL PLA5215 600 Mbps Powerline Gigabit Pass-thru Ethernet Adapter improves networking performance by more than 20% comparing with the 500 Mbps powerline technologies for better multiple HD media streaming. Just plug a pair of PLA5215 into the electrical outlets and connect to your network devices, you can immediately enjoy HD multimedia streaming, multiplayer gaming and other network applications simultaneously in every room.

Benefits

HomePlug AV2* with Gigabit Ethernet port

With the latest HomePlug AV2* technology, the ZyXEL PLA5215 provides speeds of up to 600 Mbps* and backward compatibility with HomePlug AV- and IEEE 1901-based products. In addition, the PLA5215 is equipped with a Gigabit Ethernet port to provide a stable high-performance network for simultaneous HD streaming, gaming and Web surfing. You can easily extend Internet access to any room with just a power outlet.

SmartLink™ Plus** extends home network coverage

SmartLink™ Plus** enables transmission of powerline signals across all three electrical wires—line, neutral and ground. It extends home connectivity range by up to 50% and improves the ability to overcome most environmental noise, filtered AC outlet strips and other noisy equipment to ensure continuous streaming of HD video throughout the house.

AC pass-through design with embedded noise filter

The AC pass-through design provides the convenience to deploy a home network without compromising the existing power outlets by minimizing the interference from other home electric devices. The embedded noise filter also enables the ZyXEL PLA5215 to suppress noise from all connected electronic equipment to enhance network quality for multimedia streaming.

Easy security setup

Data transmission is protected by the 128-bit Advanced Encryption Security (AES) mechanism to provide a secure connection to the Internet.

Remote management through TR-069***

By adopting the TR-069 standard, the ZyXEL PLA5215 enables service providers to remotely manage and configure the devices without any user intervention. Moreover, the PLA5215 offers a true "plug-and-play" experience to reduce deployment complexity, operating costs and maintenance expenses for service providers.

Power-Saving Mode

Green product saves energy consumption

When there is no Ethernet connection or active network usage in 60 seconds, the ZyXEL PLA5215 enters a power-saving mode that consumes only 0.5 watt to reduce energy waste by over 80%.

Specifications

System Specifications

Standard
- Data transfer rate:
  - Transmit/Receive: up to 600 Mbps*
- Compliant with HomePlug AV2*, IEEE 1901 and HomePlug AV

Access Methods
- CSMA/CA channel-access schemes

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

Power Saving Mode
- Without Ethernet link or out of network usage in 60 seconds

Security
- 128-bit AES encryption

Quality of Service (QoS)
- ToS
- Supports up to 4-level type QoS

Frequency Band
- 2 MHz to 68 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

HomePlug Modulation
- Orthogonal Frequency-Division Multiplexing (OFDM) Symbol Modulation
- Quadrature Amplitude Modulation (QAM) 4096/1024/256/64/16
- QPSK, BPSK, ROBO carrier modulation schemes

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: 4.5 watt max.
  - Power-saving mode: 0.5 watt max.

- Plug type:

EU outlet (16 A Max. 250 V)	• Type F (CEE 7/4)/Type F (CEE 7/4) DE, NL, ES, PT, AT, SE, FI, NO, GR, HU, LU	
CH outlet (10 A Max. 250 V)	• Type J (SEV 1011)/Type J (SEV 1011) CH	
UK outlet (13 A Max. 250 V)	• Type G (BS 1363)/Type G (BS 1363 1011) UK, CY, HK	
US outlet (15 A Max. 120 V)	• Type B (NEMA 5-15)/Type B (NEMA 5-15)/TW, US	

Physical Specifications
- Item dimensions (WxDxH): 122 x 67 x 40 mm (4.8" x 2.64" x 1.57")
- Item weight: 206 g (0.46 lb.)
- Packing dimensions (WxDxH): 178 x 94 x 134 mm (7.01" x 3.7" x 5.27")
- Packing weight:
  - Single pack: 300 g (0.66 Ib.)
  - Starter kit pack: 500 g (1.10 Ib.)

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
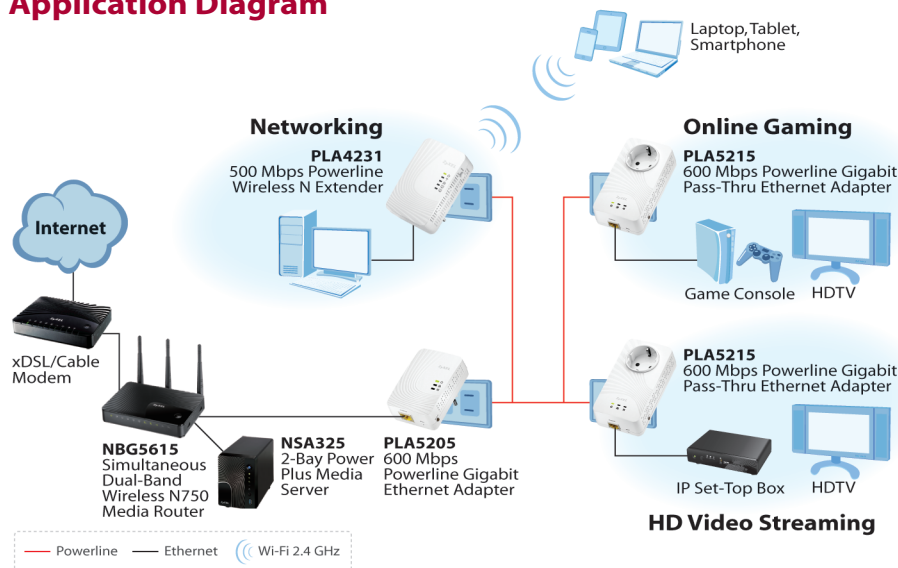- EMC: CE, FCC

Packing Contents
- Powerline Ethernet 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 rates may vary between network environments with different distance, network traffic, and noise on electrical wires, quality of electrical installation and other adverse conditions.

**The SmartLink™ Plus feature is limited by the ground pin environments with different connectivity, distance, quality of electrical installation and other adverse conditions. Since the CE ground pin usage definition has yet to be clarified, SmartLink™ Plus is not currently supported on the EU and UK models.*

****Available by future project-based requests.*

Application Diagram

Laptop, Tablet, Smartphone

Networking
PLA4231 500 Mbps Powerline Wireless N Extender

Online Gaming
PLA5215 600 Mbps Powerline Gigabit Pass-Thru Ethernet Adapter

Internet

Game Console   HDTV

xDSL/Cable Modem

PLA5215 600 Mbps Powerline Gigabit Pass-Thru Ethernet Adapter

NBG5615 Simultaneous Dual-Band Wireless N750 Media Router

NSA325 2-Bay Power Plus Media Server

PLA5205 600 Mbps Powerline Gigabit Ethernet Adapter

IP Set-Top Box   HDTV

HD Video Streaming

— Powerline   — Ethernet   (((Wi-Fi 2.4 GHz