ZyXEL

Powerline Adapter Provides Stable Home Network Foundation

- **Simple plug-and-play enables powerline network with data transfer rates of up to 200 Mbps***
- **AC pass-through design with extra power outlet**
- **Embedded noise filter for reduced power interference**
- **QoS enhances media streaming quality**
- **Power-saving mode reduces energy waste**
- **Easy data encrypt with a button touch for security setup even without a computer**
- **128-bit AES encryption for network security**
- **Multi-color LED identifies powerline network quality**

The ZyXEL PLA4111 200 Mbps Mini Powerline Pass-Thru Ethernet Adapter enables fast home networks using the existing power lines. The compact design with extra power outlets gives you 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 of PLA4111 can provide more stable multimedia streaming enjoyments.

Benefits

Plug-and-play for easy setup

The new, compact ZyXEL PLA4111 gives you the installation flexibility to turn the existing power lines into a home network—you can connect with rooms through wall power outlets without having to add or rewire Ethernet cables while providing power to other electrical devices instantaneously through the extra power outlet. Install a pair of plug-and-play PLA4111, and then you can easily connect Smart TV, Blu-ray™ players, DVRs, PCs or game consoles to the home network through electrical outlets.

Enjoy stable HD video and gaming

Powered by the HomePlug AV 200 Mbps technology*, the ZyXEL PLA4111 can provide a stable, high-performance network for you to enjoy HD streaming, gaming and Web surfing simultaneously. The embedded noise filter also enables the PLA4111 to suppress noise from connected electronic equipment to enhance the network quality for media streaming.

QoS enhances media streaming quality

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

Green products reduce energy consumption

When there is no Ethernet link in 60 seconds, the ZyXEL PLA4111 will enter a power-saving mode that consumes only 0.5 watt to reduce energy by over 75%. In addition, the PLA4111 produces less electromagnetic signals than wireless devices as it transfers data through physical power lines.

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PLA4111
200 Mbps Mini Powerline Pass-Thru Ethernet Adapter

Power-Saving Mode

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Easy security setup

Data transmission is protected by the 128-bit Advanced Encryption Security (AES) mechanism to provide secure connections to the Internet. The encryption feature can be configured through a simple button press on each PLA4111 unit—no complicated setup or additional software required.

Specifications

System Specifications

Standard
- Data transfer rate of up to 200 Mbps data rate*
- Compatible with HomePlug AV standard

Access Methods
- CSMA/CA channel-access schemes

Range
- Max. range up to 300 meters/1,000 feet 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 28.5 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

Hardware Specifications

- Ethernet interface: One 10/100 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 - 240 V AC, 50/60 Hz
- Power consumption:
  - Full operation: 2 watt max.
  - Power-saving mode: 0.5 watt max.
- Plug type:

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

Physical Specifications

- Item dimensions (WxDxH): 64 x 39 x 102 mm (2.52" x 1.54" x 4.01")
- Item weight: 180 g (0.41 lb.)
- Packing dimensions (WxDxH): 150 x 120 x 100 mm (5.9" x 4.72" x 3.94")
- Packing weight: 270 g (0.61 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)
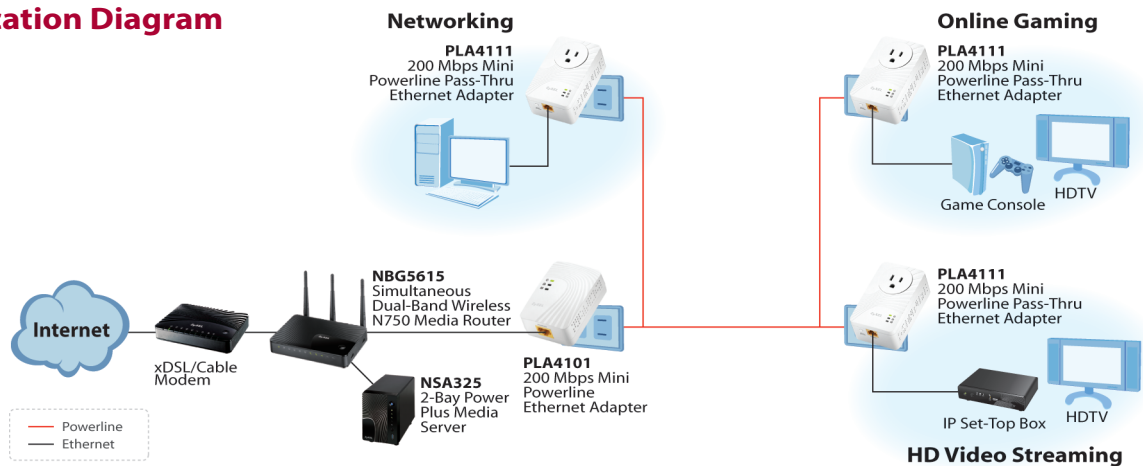- Humidity: 10% to 95% (Non-condensing)

Certification

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

Packing Contents

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

* The theoretical maximum channel data transfer rate is derived from HomePlug AV specifications; however the maximum throughputs may be limited by the Fast Ethernet ports. Actual data transfer rate will vary with network environment conditions including: distance, network traffic, and noise on electrical wires, quality of electrical installation and other adverse limits.

Application Diagram

Networking

PLA4111 200 Mbps Mini Powerline Pass-Thru Ethernet Adapter

Online Gaming

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Game Console   HDTV

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Internet

xDSL/Cable Modem

NBG5615 Simultaneous Dual-Band Wireless N750 Media Router

NSA325 2-Bay Power Plus Media Server

PLA4101 200 Mbps Mini Powerline Ethernet Adapter

IP Set-Top Box   HDTV

HD Video Streaming

— Powerline
— Ethernet