



PLA5456

AV2000 HomePlug AV2 Powerline 2-Port Gigabit Pass-Thru Ethernet Adapter

It connects your 4K television networking players with Zyxel's powerful PLA5456 HomePlug AV2 1800 Mbps* Powerline Ethernet adapter to stream 4K video contents smoothly and reliably to anywhere with a power outlet, thanks to its latest HomePlug AV2 technology that delivers data transfer speeds of up to 1800 Mbps*. You can also connect an additional video game console to the Zyxel PLA5456 Powerline Ethernet adapter to enjoy a lag-free online gaming experience. Its convenient pass-through power outlet design allows you to use the same power outlet without sacrificing it.

Benefits

Fast, reliable network connection right from your power outlets

Just connect one Zyxel PLA5456 to your Internet sharing router or gateway, and another to the devices that needs Internet connection. With the latest HomePlug AV2 technology, it is easy to build a wired network with speeds of up to 1800 Mbps* connecting the two Gigabit Ethernet ports.



Transform your power outlets into a fast 1800 Mbps* network



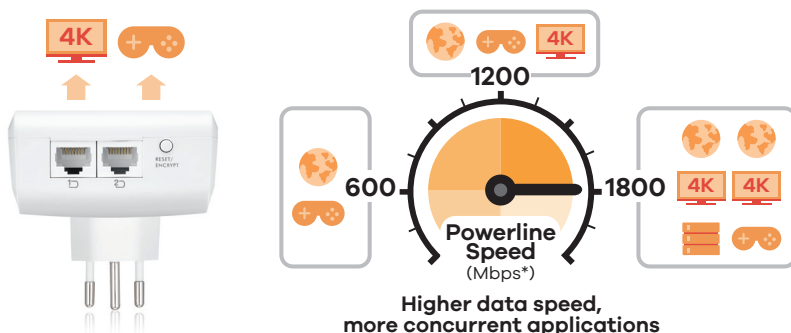
Stable network and great coverage with MIMO technology



Pass-through design returns you a power outlet



Two Gigabit Ethernet ports for connecting multiple devices



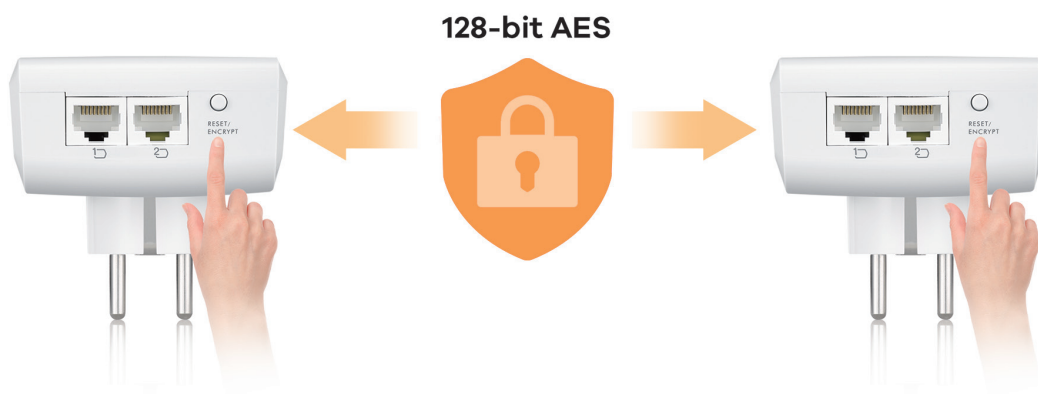
4K video streaming and two Gigabit Ethernet ports for network-intensive applications

Empowered by the latest HomePlug AV2 and MIMO technologies, the Zyxel PLA5456 is offering the same networking performance as connecting directly to the router. It dramatically improves coverage through one or even two floors for Internet applications like radio, large-screen TV and Netflix 4K streaming simultaneously requested by two Gigabit Ethernet connections.



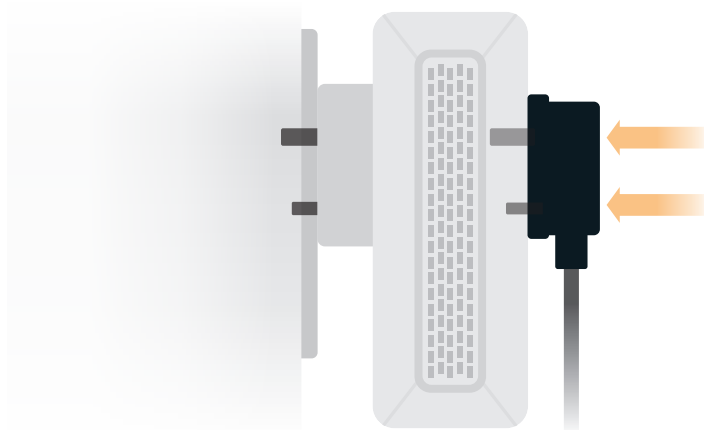
Easy setup for fast, stable and secured Internet anywhere in your home

The Zyxel PLA5456 is very easy to connect and use even for those who are not Internet experts. Just plug and play, and you will have an instant hardwired connection anywhere in your home without having to run physical wires. Significant coverage improvement ensures fantastically stable connection across one or even two floors. Push the sync button on both PLA5456 and you get an instant, 128-bit encrypted network going through your powerline. It works like magic!

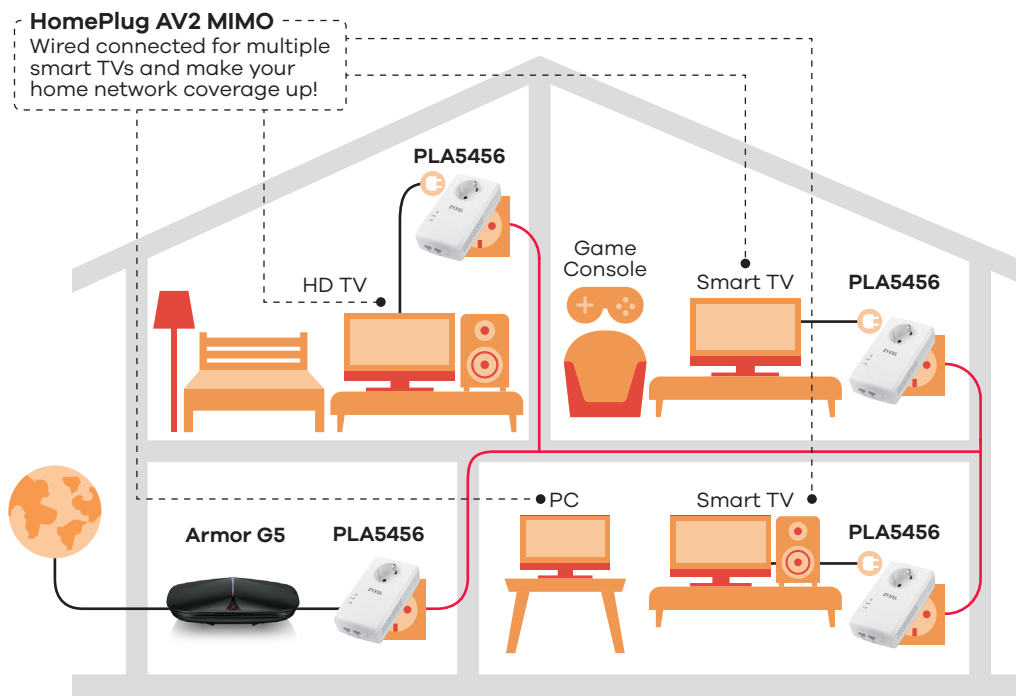


Convenient pass-through design returns you a power outlet

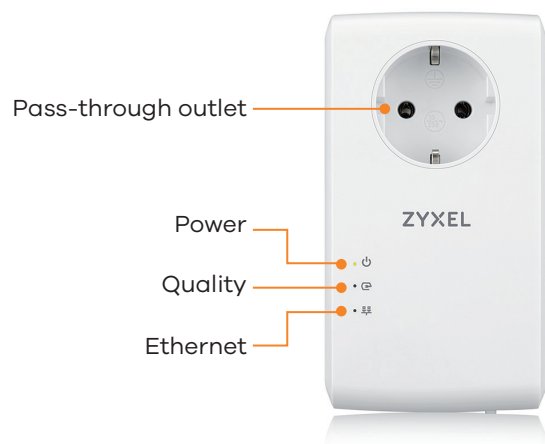
The Zyxel PLA5456 offers a pass-through outlet which allows you to keep the existing powered devices connected. The embedded noise filter eliminates static from the connected electronics to further improve network quality.



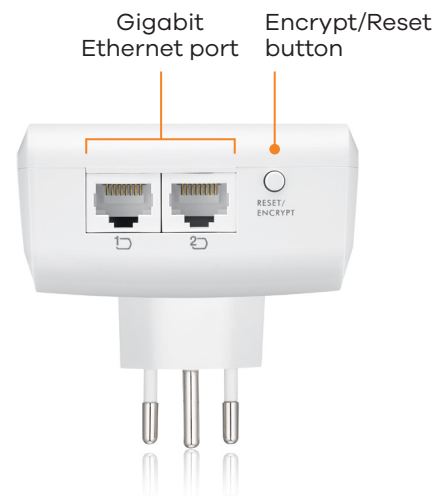
Application Diagram



Front Panel



Rear Panel



Specifications

System Specifications

Standard

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

Powerline Data Rate

- Transmit: up to 1800 Mbps*
- Receive: up to 1800 Mbps*

Access Methods

- CSMA/CA channel-access schemes

HomePlug Modulation

- OFDM symbol modulation
- QAM 4096/1024/256/64/16
- QPSK, BPSK, ROBO carrier modulation schemes

Range

- Max. range up to 300 meters over power line

Security

- 128-bit AES encryption

Quality of Service (QoS)

- Supports up to 4-level type QoS

Frequency Band

- 2 MHz to 86 MHz

IGMP

- IGMP v1/v2/v3

System Requirements

- Operating system independent:
 - Ethernet: RJ-45
- Utility software OS support:
 - Microsoft Windows XP/Vista/7/8/10

Hardware Specifications

- Ethernet interface: Two 10/100/1000 Mbps RJ-45 connectors 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 240V AC, 50/60 Hz
- Power consumption:
 - Full operation: 6 watt max.
- Socket/Connector:
 - EU: Type F (CEE 7/4)/Type F (CEE 7/4)
 - Max power rating: 16A 250V~
 - DE, NL, ES, PT, AT, SE, FI, NO, GR, HU, LU



- UK: Type G (BS 1363)/Type G (BS 1363)
 - Max power rating: 13A 250V~
 - UK, CY, HK



- US: Type B (NEMA 5-15)/Type B (NEMA 5-15)
 - Max power rating: 15A 120V~



- CH: Type J CEE 7/16/Type J CEE 7/16
 - Max power rating: 10A 250V~

Physical Specifications

Single

- Item dimensions (WxDxH): 133.5 x 71.1 x 38.6 mm (5.25" x 2.79" x 1.51")
- Item weight: 269 g (0.59 lb.)
- Packing dimensions (WxDxH): 231 x 185 x 95 mm (9.09" x 7.28" x 3.74")
- Packing weight: 535 g (1.17 lb.)

Twin

- Item dimensions (WxDxH): 133.5 x 71.1 x 38.6 mm (5.25" x 2.79" x 1.51")
- Item weight: 538 g (1.18 lb.)
- Packing dimensions (WxDxH): 231 x 185 x 95 mm (9.09" x 7.28" x 3.74")
- Packing weight: 788 g (1.71 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, ICES, BSMI

Package Contents

Single

- 1 powerline Ethernet adapter
- 1 Ethernet cable
- Quick start guide (including warranty form)

Twin

- 2 powerline Ethernet adapters
- 2 Ethernet cables
- Quick start guide (including warranty form)

* 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.

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

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