



- Plug-and-play Design for Quick Boost of Data Transfer Rates of Up to 200 Mbps*
- Connects to Powerline Networks and Provides Power with Extra Power Outlet
- Built-in Noise Filter for Reducing Power Interference
- QoS Supports High-Definition Video Streaming and Network Applications
- Power-saving Mode Saves Energy Consumption
- Encrypt Button for Easy Network Security Setup
- Multi-color LED Identifies Powerline Network Performance

PLA-407 Powerline Pass-Thru Ethernet Adapter

Powerline Ethernet Adapter with Extra Plug for Convenient HD Video Streaming

Benefits

Easy Setup and High Performance for HD Video Streaming

The powerline solution simplifies network setup by turning the existing power lines into a high-speed network. Just plug a PLA-407 with Ethernet link to a broadband modem into the power outlet in one room, and plug another with link to a PC or any devices requiring Ethernet connection in the other rooms, you can easily and instantly connect to the network without laying complicated wiring at home. With advanced HomePlug AV technology and data transfer rates of up to 200 Mbps*, the PLA-407 provides users with stable and high-speed network environments to enjoy HD video streaming and sharing.

Extra Power Outlet Brings More Convenience

With the AC pass-through design, the PLA-407 provides both powerline network connection and power supply to multiple electrical devices at the same time. The PLA-407 enables users to easily get Internet access without the inconvenience of insufficient power outlets. For children safety, the power outlet has been designed to avoid electrical shocks caused by children inserting foreign objects into the receptacles.

Built-in Noise Filter for Reducing Power Interference

With a built-in noise filter, the PLA-407 can suppress noise interference level down to 1/1000 and optimize powerline communication performance. The noise filter can effectively reduce noises generated by surrounding electronic equipments such as dryers, vacuum cleaners, lamps or mobile phone chargers plugged into the power outlets and ensure clean and stable signal quality on the powerline network.

QoS for High-definition Video Streams

Inherent advanced QoS improves the quality of multimedia services like high-definition video streaming, data transmission and VoIP by prioritizing the applications. QoS provides users with high voice communication quality while other network applications are being intensively used.

Green Product Saves Energy

To save on electricity bills and better protect the environment, the PLA-407 consumes less power without compromising performance. With the new-generation green solution, the PLA-407 decreases power consumption by up to 30% comparing to the previous generation of powerline Ethernet adapters. Furthermore, the PLA-407 reduces power consumption by up to 60% with Power-saving Mode when the link has become inactive.

*The theoretical maximum data transfer rate is 200 Mbps. The actual data transfer rate may vary depending on the quality of electrical installation.





PLA-407 Powerline Pass-Thru Ethernet Adapter

Encrypt Button for Easy Network Security Setup

Users can easily set up a secure connection between the PLA-407 and other HomePlug AV products within minutes. Just push the Encrypt button, the security setup of the powerline network is done instantly. With the 128-bit Data Encryption Security feature, the PLA-407 provides a secure network connection for Internet access and network resource sharing without complicated setup procedures.

Specifications

System Specifications

- Standard:
 - Compliant with IEEE 802.3, 802.3u (10/100 Ethernet standard)
 - HomePlug AV1.1 with data transfer rate of up to 200 Mbps*
- Access methods: CSMA/CA channel-access schemes
- HomePlug modulation:
 - OFDM symbol modulation
 - QAM 1024/256/64/16
 - QPSK, BPSK, ROBO carrier modulation schemes
- Range:
 - Max. range up to 500 meters (1,640 feet) over power line
 - Number of bridged device: 64
- Power-saving mode: if link is inactive for a period (default setting: 60 seconds)
- IGMP: IGMP snooping for multicast to multiple unicast mapping
- Security: 128-bit AES encryption
- Quality of Service (QoS)
 - ToS
 - Support up to 4-level of priority
 - Support up to 8-level VLAN priority field
- Frequency band: 2 MHz ~ 30 MHz

Hardware Specifications

- Ethernet interface: one 10/100 Mbps Ethernet RJ-45 connector with auto MDI/MDIX support
- Power rating: 100-240 VAC, 50/60 Hz
- AC outlet:

EU outlet: 16 A Max.



UK outlet: 13 A Max.



US outlet: 15 A Max.

- Indicators: 3 LEDs
- Power on/off

- Powerline activity
- Ethernet link
- Encrypt button: one-push button to secure powerline network
- Reset button: reset the device to factory default setting
- Power consumption:
 - 110 V/120 V: full operation 2.6 W, power-saving mode 0.8 W
 - 230 V/240 V: full operation 3.9 W, power-saving mode 1.6 W
- Filter capability
 - Frequency range: 2 MHz ~ 30 MHz
 - Insertion loss: -30 dB ~ -50 dB

Physical Specifications

- Item weight: 187 g (0.41 lb)
- Item dimensions: 66 (W) x 35 (D) x 138 (H) mm (2.6 (W) x 1.38 (D) x 5.43 (H) inch)
- Packing weight: 470 g (1.04 lb)
- Packing dimensions: 178 (W) x 94 (D) x 134 (H) mm (7.01 (W) x 3.7 (D) x 5.27 (H) inch)

Environmental Specifications

- Operating environment:
 - Temperature: 0°C ~ 40°C/32°F ~ 104°F
 - Humidity: 20% ~ 90% RH
- Storage environment:
 - Temperature: -20°C ~ 70°C/-22°F ~ 158°F
 - Humidity: 20% ~ 95% RH

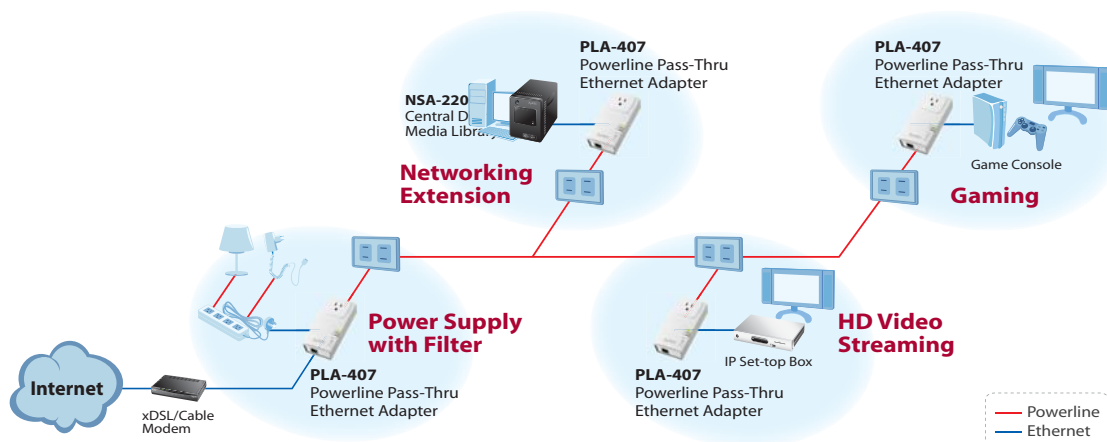
Certifications

- EMC: FCC, CE
- Safety: UL, cUL, CE-LVD

Package Contents

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

Application Diagram



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