500M Powerline Pass-Through Ethernet Bridge

High Speed Ethernet Connection via HomePlug Powerline

With HomePlug AV technology, the PLANET PL-751 Powerline Pass-Through Ethernet Bridge extends a high speed up to 500Mbps networking connection to any power outlet. With hassle-free plug and play installation, it enables users only need to plug a pair of powerline adapters into the house power outlets, and then users can easily enjoy high definition video streaming and network transmission. No more tripping over tangled, messy wires running through your house, the PL-751 is an ideal solution to create a wall-to-wall home network.

Built-in Noise Filtering Power Socket

To efficiently make use of the power socket, the PL-751 is built-in with an extra AC power outlet with noise filtering feature. As a result, another device needing power can be plugged into the AC socket on the PL-751 directly without taking up another wall socket. While the appliances which use the powerline as communications medium will also contribute noise to it, with noise filtering function, the PL-751 can enhance powerline communications coverage in the home when its AC Pass Through outlet is in service.

IEEE Compliant HomePlug AV & LAN

- Designed for high-definition multimedia streaming
- Data rate up to 500Mbps and distance up to 300 Meters over existing electrical wiring
- IEEE 802.3, IEEE 802.3u, IEEE 1901 and HomePlug AV standard compliant
- Backwards compatible with HomePlug AV (200Mbps) including PLANET Powerline products
- Equipped with 10/100Mbps RJ-45 Ports for LAN/WAN, Auto MDI/ MDI-X supported

Secure Network Connection

- Plug-and-Play installation in minutes, converts any power socket into a wired connection point
- Simple push-button setup with sophisticated data encryption, 128-bit AES encryption for network protection enhancement

Easy Installation & Management

- Creates a high speed network connection throughout your home without the mess of cables
- Easy-to-use utility for powerline network management
- Up to 16 Powerline Network Adapters can communicate on a single network
- Green technology applied to help conserve energy when no data link is detected
- TDMA and priority-based CSMA/CA channel access schemes maximize efficiency and throughput
- Provides a noise-filtered power outlet with AC Pass Through
- Integrated Enhanced Quality of Service(QoS) features

Data Transfer Rate up to 500Mbps and Distance up to 300 Meters Wiring

With advanced HomePlug AV technology, the PL-751 provides users with stable, high speed data transfer rates up to 500Mbps on electric powerline length up to 300 meters. Therefore, the PL-751 can transmit multiple HD streams and even Full HD movies to every room, making it a great choice for easily building a multimedia entertainment network.

200Mbps

PL-702

PL-751

500Mbps

PL-510W
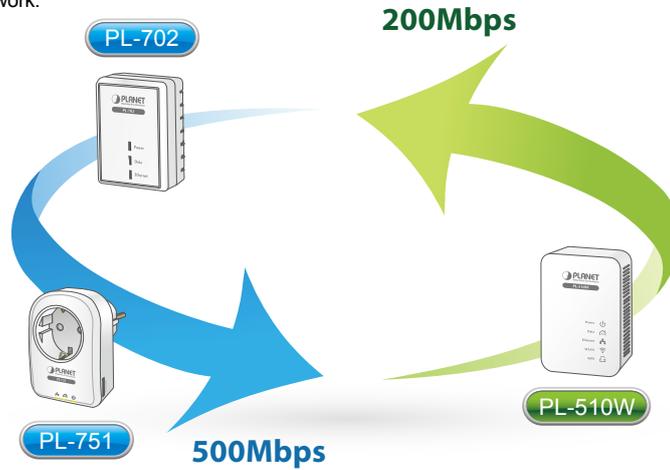
The PLANET 500M Powerline Series are compatible with the PLANET 200M Powerline Series.

Secures the network connection with the touch of a button, no need to remember passwords

Simply by pushing the button on the PL-751, users can easily set up a hassle-free secure Powerline network within minutes. It provides 128-bit AES encryption for network security and data protection.

***128-bit AES** Encryption for*

Network Security and Data Protection

Getting started is as easy at 1-2-3

Users can immediately access to the Internet via the PC / Laptop connecting to PL-751 by simple three steps:

1. Connects one Powerline Ethernet Bridge to your ADSL or Cable modem's Ethernet port and plug it into the nearest power socket.

2. Plugs in the second Powerline Ethernet Bridge in your room or office.

3. Connects the PC / Laptop to the Powerline Ethernet Bridge by the network cable.

Quick & Easy Connection

Internet
Cable/xDSL Modem
PL-751-A
STEP.1

PL-751-A
PL-751-B
Power Line
**STEP.2**

PL-751-B
or
Laptop
IPTV
STEP.3
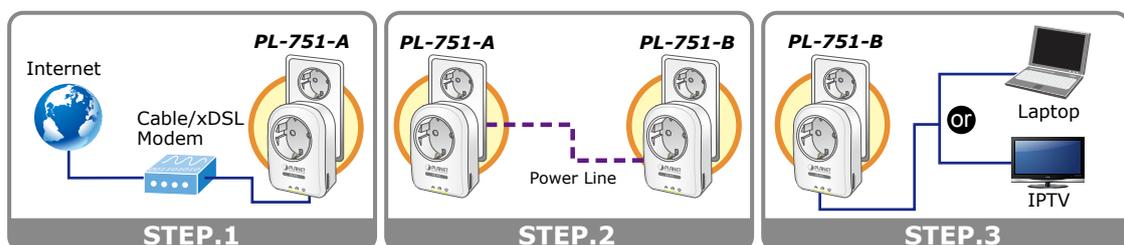
Reduce Power Consumption Up to 80%

The PL-751 consumes less power when comparing to the existing Powerline Ethernet Adapters. Moreover, when there is no Ethernet link, the PL-751 will automatically switch to the "Power-saving" mode that would reduce energy wasting for over 80%* when compared to the adapters without this feature.

*Actual data will vary depending on the network conditions and environmental factors.
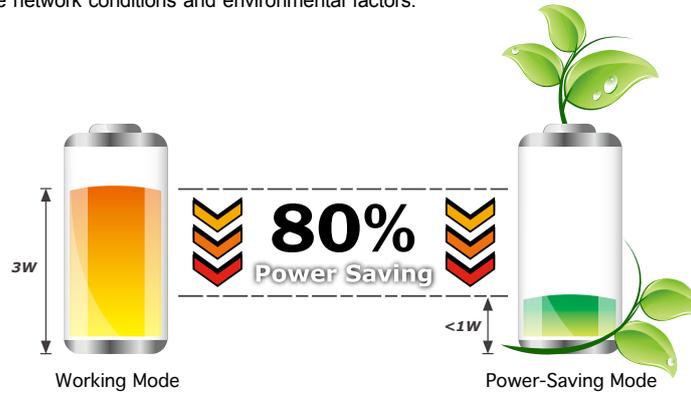
Efficient Bandwidth Management by QoS (Quality of Service)

Quality of Service (QoS) is provided by the PL-751 enabling a network to provide better service to selected network traffic over various technologies. The PL-751 provides 5 priorities of QoS for quick setup such as internet, online game, IPTV, video and VoIP.
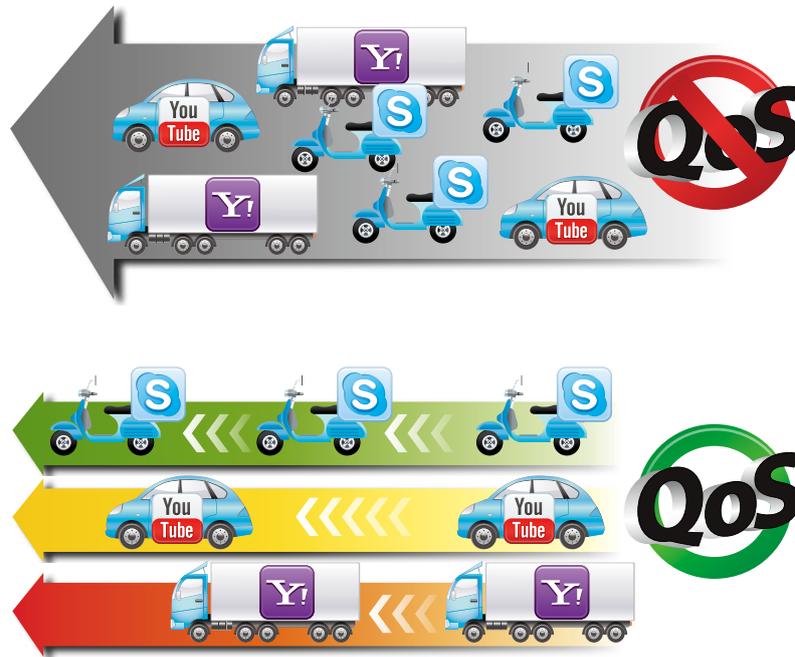

Quality of Service(QoS)
Ensure the quality of bandwidth sensitive applications

Application

High-Speed Ethernet Connection via Home's Powerline

PLANET provides several types of powerline products to meet various demands on Internet access sharing at home. As illustrated, users may connect an IP STB to the Nano Powerline Adapter PL-751, or connect a PC to the PL-751 in the house freely. With the PLANET powerline products applied, no messy network cables and additional switches are required at home and users can entirely enjoy home broadband network from now on.
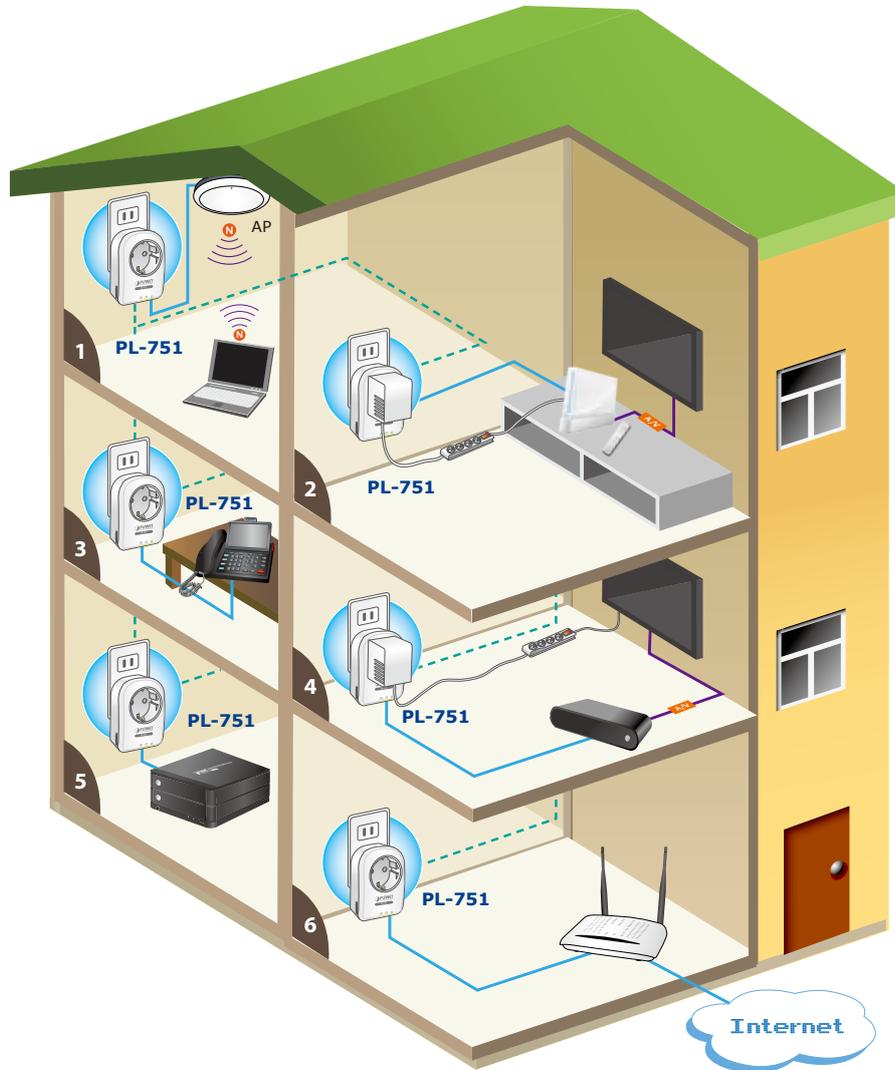
❶ Wireless Extender   ❷ Online Gaming

❸ VoIP   ❹ IPTV/VOD

❺ Data Storage Sharing   ❻ Broadband Networking

- - - - - - Power Line (AC)
———— 100Base-TX UTP
———— Audio Line / Video Line
(((((N 2.4GHz 802.11n
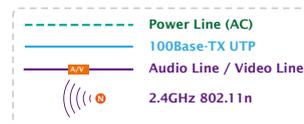
Specification

Product	500M Powerline Pass-Through Ethernet Bridge
Model	PL-751
Hardware Specification	
Network Interface	One RJ-45 port (10/100Base-TX Ethernet) One 500Mbps power line port supporting co-existence with HomePlug 1.0
Cabling	Cat. 5 UTP cable
LED	Power: On / Off / Blinking Ethernet: Red / Orange / Green / Off Data: Solid / Blinking / Off
Button	One Security / Reset button
Power Socket	Support EU / US / UK power connector
Standards Conformance	
Computer Interface	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX
Standards	IEEE 1901 / HomePlug AV
Security	128-bit AES link encryption with key management
Data PHY Rate	500Mbps over Powerline and 10/100Mbps over Ethernet
Modulation Schemes	OFDM symbol modulation on line synchronization 1024/256/64/16/8 - QAM, QPSK, BPSK, ROBO carrier modulation
Frequency Band	2 ~ 50 MHz
Additional Protocols	Mix of TDMA and CSMA/CA channel access scheme; CO device generates a periodic beacon carrier for channel access scheme
Operation Range	Estimated range of 300 meters in wall powerlines
Software Utility	Device detect / diagnostic, Windows 98 SE, ME, 2000, NT, XP, Vista, and Window 7
Environment Specifications	
Operating	Temperature: 0~40 Degree C Relative Humidity:10~90% (non-condensing)
Storage	Temperature: -20~70 Degree C Relative Humidity: 5~95% (non-condensing)
Power Supply	100~240V AC, 50~60Hz internal
Housing Dimension (W x D x H)	92.4 x 62 x 38 mm
Weight	134 g
Emission	FCC, CE

Ordering Information

PL-751-EU	500M Powerline Pass-Through Ethernet Bridge (EU type direct-attached)
PL-751-UK	500M Powerline Pass-Through Ethernet Bridge (UK type direct-attached)
PL-751-US	500M Powerline Pass-Through Ethernet Bridge (US type direct-attached)
PL-751-KIT-EU	500M Powerline Pass-Through Ethernet Bridge (Two Devices Pack, EU type)
PL-751-KIT-UK	500M Powerline Pass-Through Ethernet Bridge (Two Devices Pack, UK type)
PL-751-KIT-US	500M Powerline Pass-Through Ethernet Bridge (Two Devices Pack, US type)

Related Products

PL-510W-EU	200M Powerline Wireless N Extender (EU type direct-attached)
PL-510W-UK	200M Powerline Wireless N Extender (UK type direct-attached)
PL-510W-US	200M Powerline Wireless N Extender (US type direct-attached)
PL-702-EU	500M Powerline Ethernet Bridge (EU type direct-attached)
PL-702-UK	500M Powerline Ethernet Bridge (UK type direct-attached)
PL-702-US	500M Powerline Ethernet Bridge (US type direct-attached)
ITB-3001	High Definition IP Set-Top Box
NAS-7202	2-Bay SATA NAS Server

PL-751