Pioneer of IP Innovation

500M Powerline Pass-Through Ethernet Bridge

PL-751

Presentation Outline

◆ **Product Overview**

◆ **Product Benefits**

◆ **Product Features**

◆ **Applications**

◆ **Comparison**

Product Overview
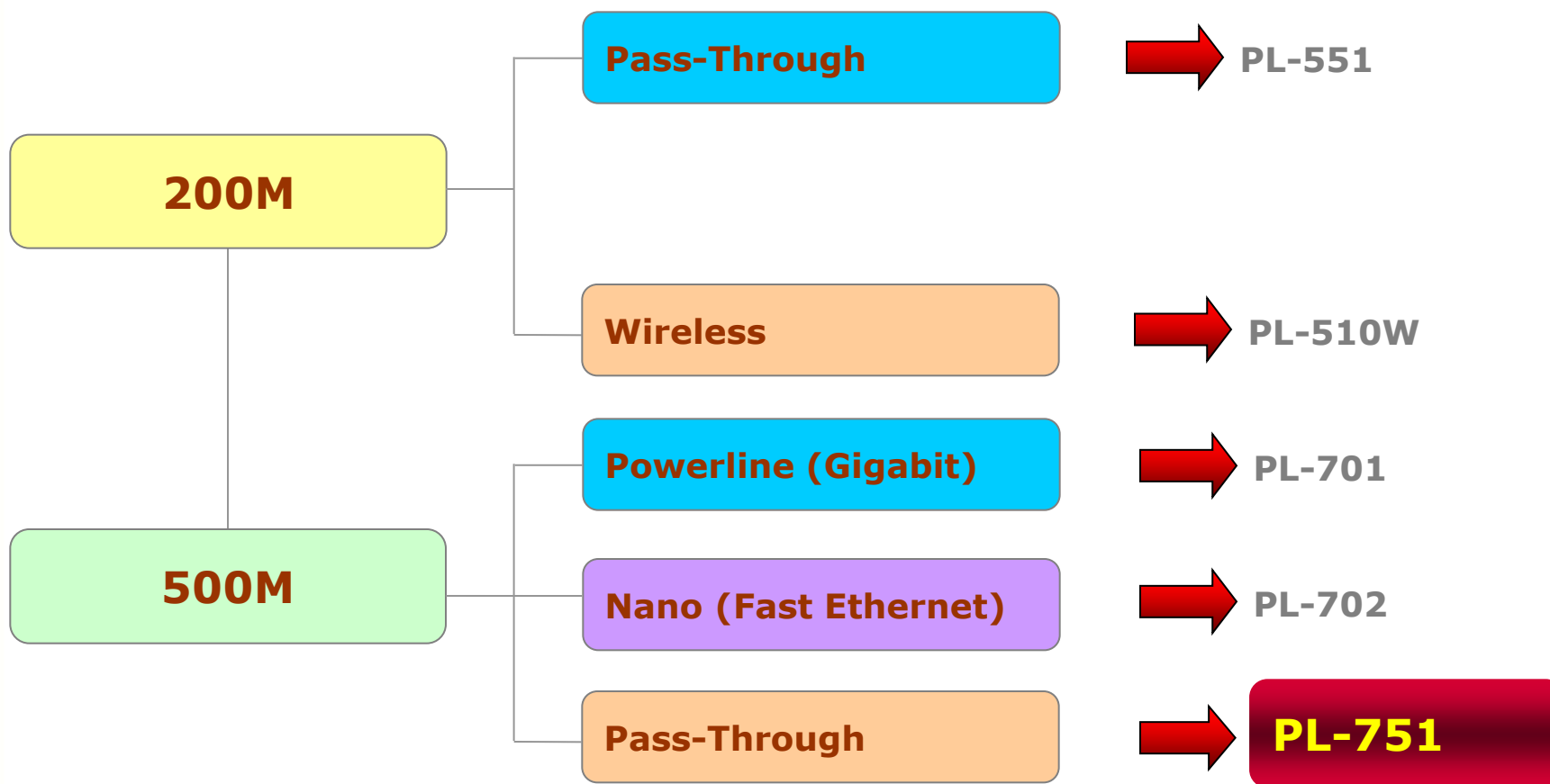
◆ **HomePlug AV Powerline Product Classification**

200M
- Pass-Through ➡ PL-551
- Wireless ➡ PL-510W

500M
- Powerline (Gigabit) ➡ PL-701
- Nano (Fast Ethernet) ➡ PL-702
- Pass-Through ➡ **PL-751**

Product Overview

◆ **Front Panel**

✓ **Dimensions: 92.4 x 62 x 38 mm (W x D x H)**

✓ **Weight: 134g**

Reset / Security Button

Ethernet / Data / Power LEDs
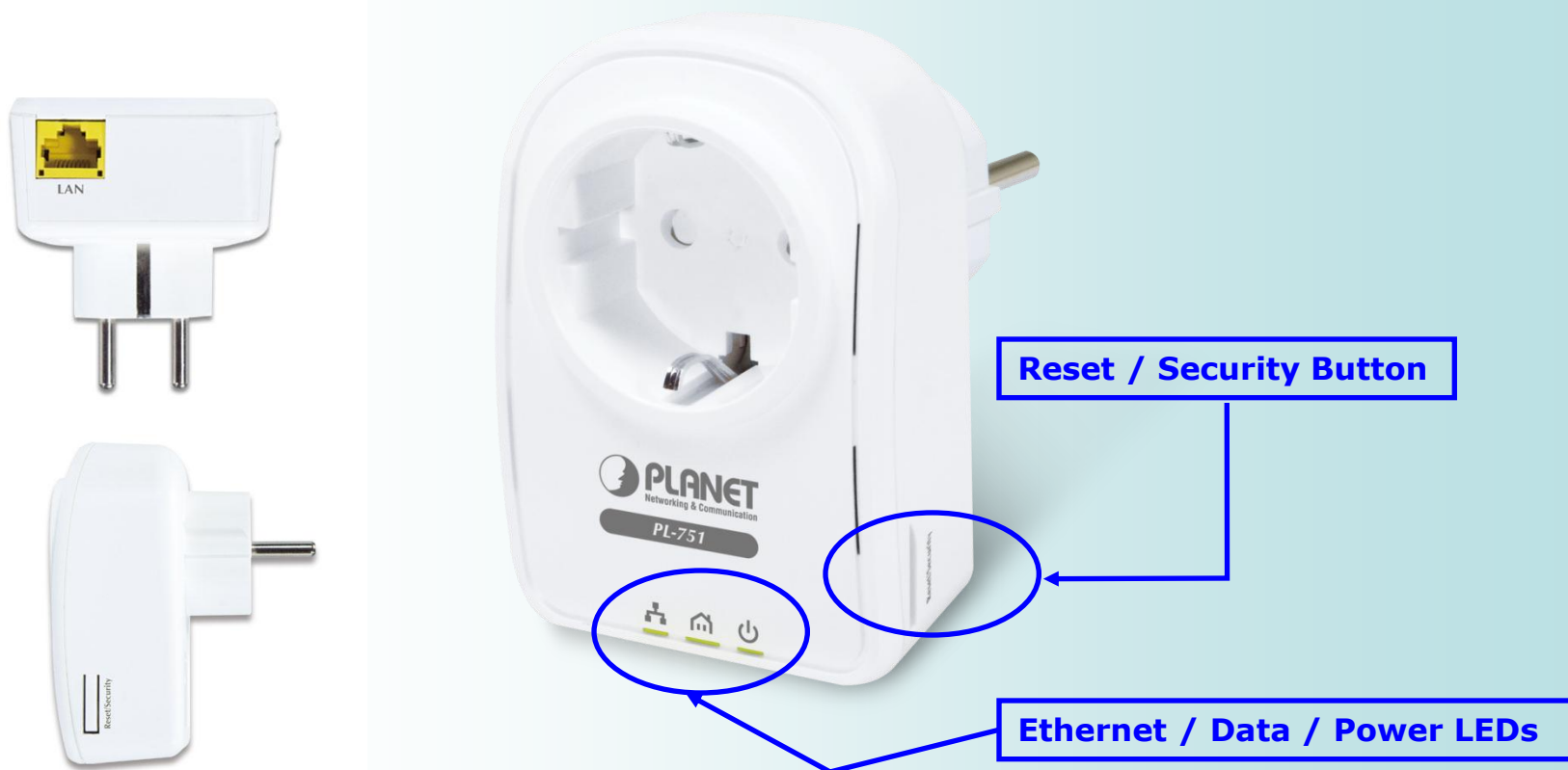
Product Features

◆ **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

Product Features

◆ **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

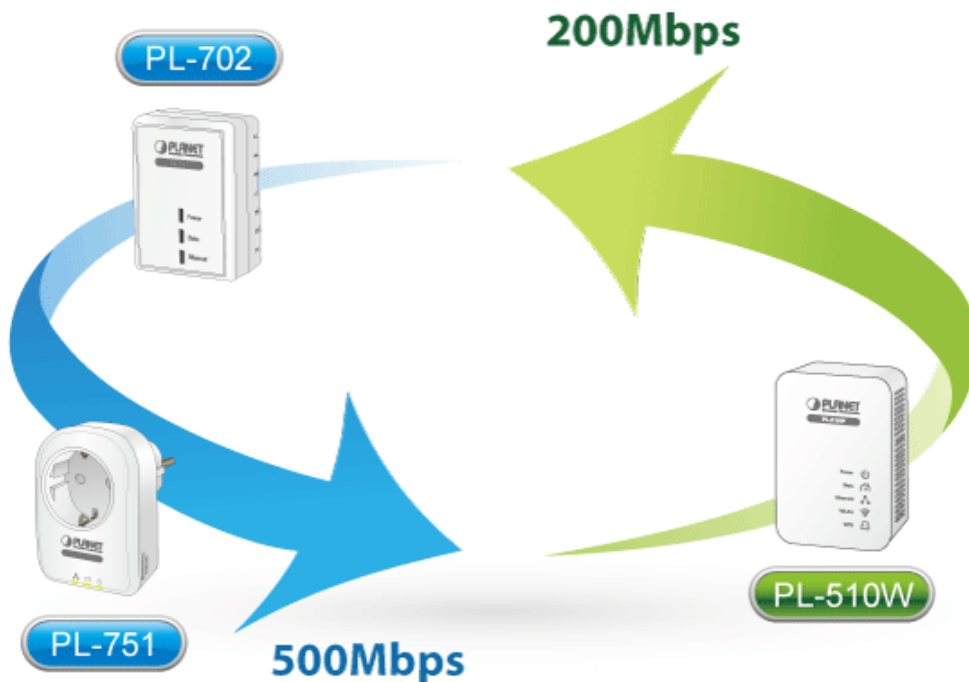# Product Features

◆ **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

Product Features

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

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

The PLANET 500M Powerline Series are compatible with the PLANET 200M Powerline Series.

Product Features

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

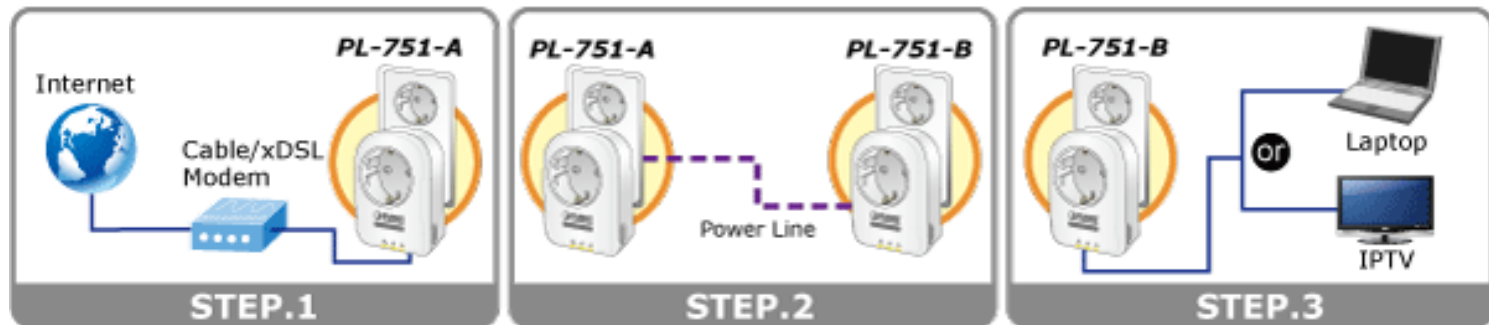It provides **128-bit AES** encryption for network security and data protection

128-bit AES Encryption for
Network Security and Data Protection

Product Features

◆ **Getting started is as easy at 1-2-3**

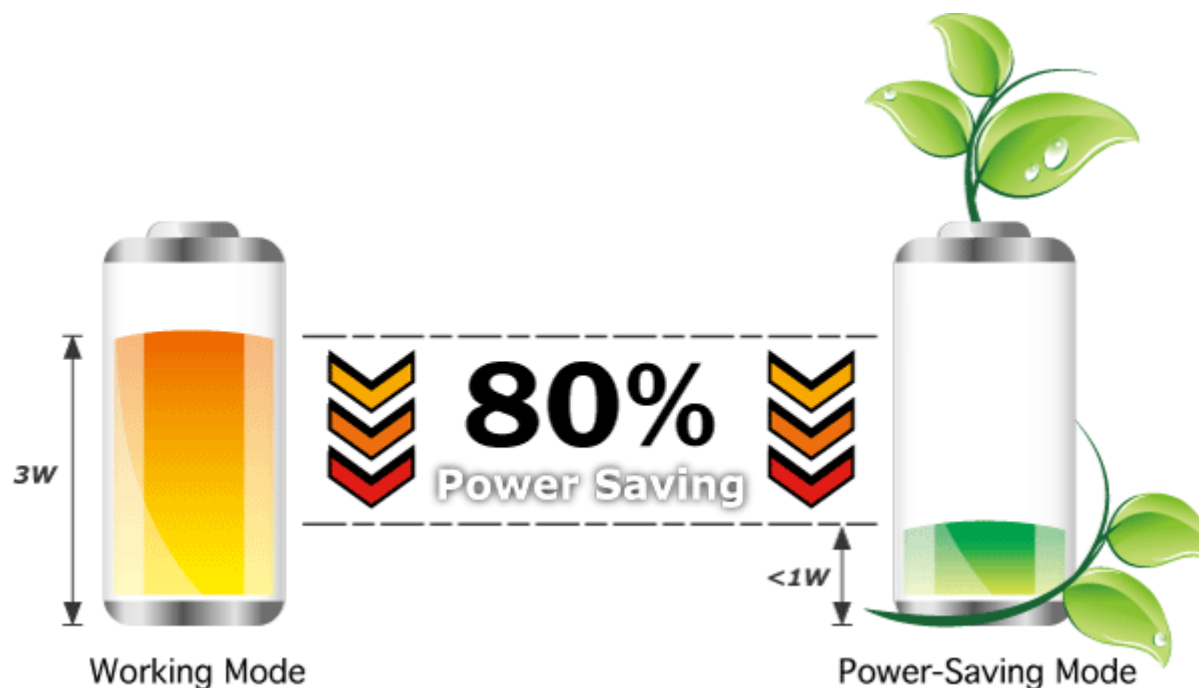**Users may access to the Internet through the PC / Laptop immediately**

Quick & Easy Connection

Product Features

◆ **Reduce Power Consumption Up to 80%**

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

3W
Working Mode

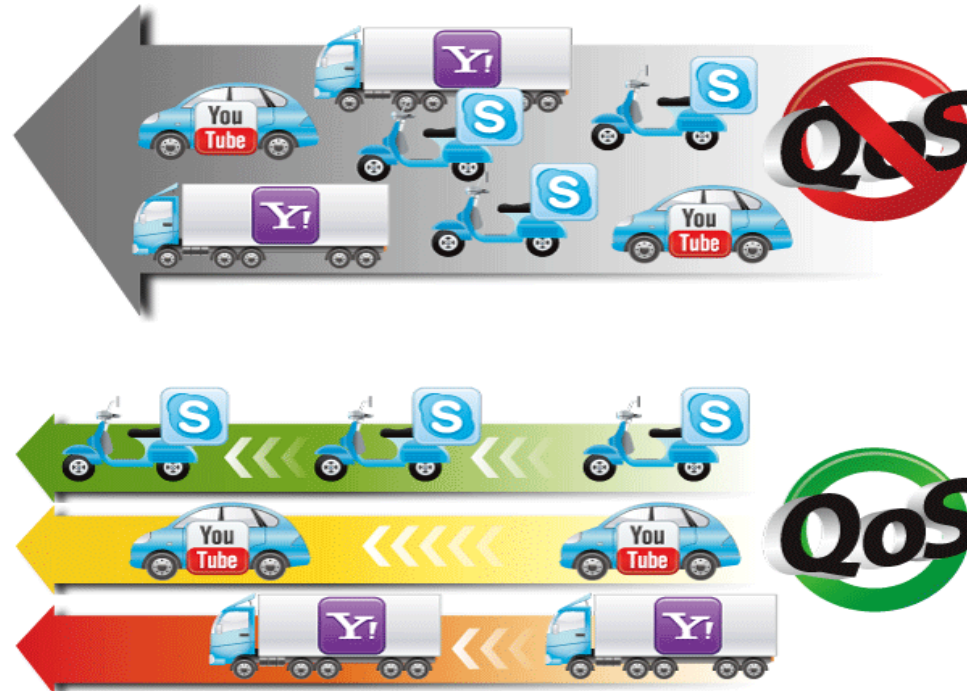80% Power Saving

<1W
Power-Saving Mode

*Actual data will vary depending on the network conditions and environmental factors.

Product Features

◆ **Efficient Bandwidth Management by QoS (Quality of Service)**

Quality of Service (QoS) is provided by the PL-751 enabling a network to provide better

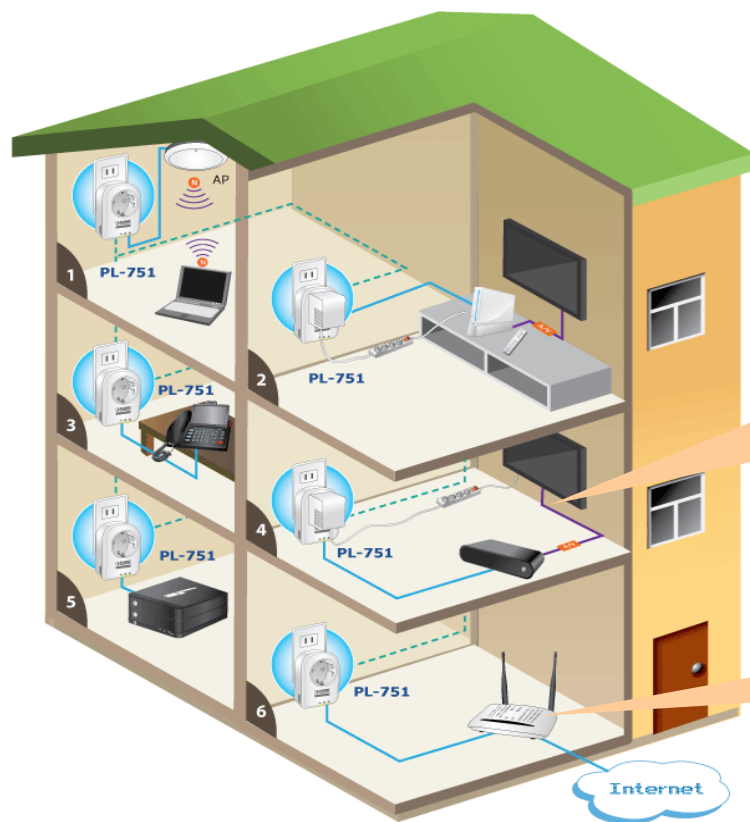service to selected network traffic over various technologies

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

Applications

◆ **High-Speed Ethernet Connection via Home's Powerline**

PL-751 in Living Room
Connect the second PL-751 unit to the Ethernet-enabled Device anywhere in your home, Such as an Internet-ready HDTV or Set-top box.

PL-751 in Study Room
Connect the first PL-751 unit to your ADSL router.

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
2.4GHz 802.11n

Comparison - Internal

Feature \ Model	PL-751	PL-551
Standard	HomePlug AV **IEEE 1901** IEEE 802.3 IEEE 802.3u	HomePlug AV IEEE 802.3 IEEE 802.3u
Ports	One RJ-45 port	One RJ-45 port
Speed	**UP to 500Mbps**	UP to 200Mbps
Encryption	128-Bit AES	128-Bit AES
Energy saving	**V**	-
QoS	V	V
IGMP	V	V
LEDs	Power, Ethernet, Data	Power, Ethernet, Data
Dimension (W x D x H)	**92.4 x 62 x 38 mm**	105 x 58 x 41 mm
Weight (g)	**134g**	233g

Comparison - External

Model / Feature	PLANET PL-751	D-Link DHP-P309AV US$63	NETGEAR XAVB5601 US$72
Standard	HomePlug AV	HomePlug AV	HomePlug AV
	IEEE 1901 IEEE 802.3 IEEE 802.3u	IEEE 1901 IEEE 802.3 IEEE 802.3u	IEEE 1901 IEEE 802.3 IEEE 802.3u IEEE 802.3ab
Ports	One RJ-45 port	One RJ-45 port	One RJ-45 port
Speed	UP to 500Mbps	UP to 500Mbps	UP to 500Mbps
Encryption	128-Bit AES	128-Bit AES	128-Bit AES
Energy saving	V	V	V
Pick-a-Plug	V	-	V
QoS	V	V	V
IGMP	V	-	V
LED	Power, Ethernet, Data	Power, Ethernet, Data	Power, Ethernet, Data
Dimension (W x D x H)	92.4 x 62 x 38 mm	156 x 69 x 42.5 mm	114 x 55 x 32.5 mm
Weight (g)	134g	150g	174g

Appendix - Sales Target

◆ **Target Markets**

  ✓ **SOHO User**

  ✓ **Small and medium enterprises solution**

◆ **Target Customers**

  ✓ **Who buys Powerline Ethernet Bridge**

   • PL-551, PL-702, PL-701, PL-510W

Appendix

♦ **Ordering Information**

Model Name	Description
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)

♦ **Related Powerline Ethernet Bridge**

Model Name	Description
PL-551-EU	200M Powerline Pass-Through Adapter (EU type direct-attached)
PL-510W-EU	200M Powerline Wireless N Extender (EU type direct-attached)
PL-701-EU	500M Powerline Ethernet Bridge (EU type direct-attached)
PL-702-EU	500M Nano Powerline Ethernet Bridge (EU type direct-attached)

Appendix

◆ **Typical Application - Comparison**

	HomePlug AV	**WLAN 802.11n**	**Ethernet**
Speed	500Mbps	300Mbps	1000Mbps
Media	Power line	Air	RJ-45 cable
Installation	Very Easy	Easy	Hard
Mobile	Easy (DTV, AP, PC)	Very Easy (NB, iPhone iPAD)	Hard
Availability	Power jack in every room	No wire needed	Need new wiring

Activating IP Power