200M Powerline Wireless N Extender

High Speed Wireless Extension via Home's Powerline

With HomePlug AV technology, the PLANET PL-510W Powerline Wireless N Extender efficiently share up to 200/300Mbps high speed In-house connection to any power outlet at home. 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 can immediately enjoy high definition video streaming and network transmission. No more tripping over tangled, messy wires running through your house, the PL-510W is an ideal solution to create a Wall-to-Wall home network and extend the connection wirelessly.
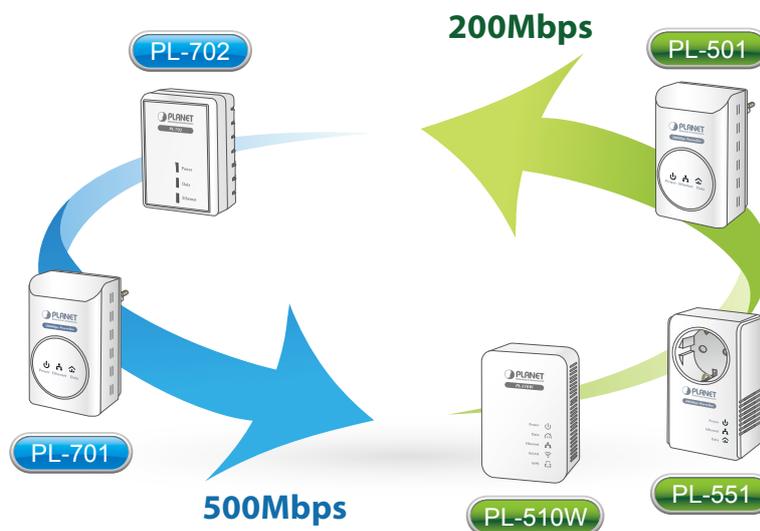
Faster Wireless speed, Wider Operational Range

The PL-510W features IEEE 802.11n radio with 2T2R antenna technology compliant with 802.11b/g/n standards. With the 300Mbps high speed transmitting rates, the PL-510W can easily integrates the wireless devices with existing wired network. To secure the wireless communication, the PL-510W supports most Up-to-Date encryptions including WEP / WPA / WPA2-PSK with TKIP/AES.

Data Transfer Rate up to 200Mbps and Distance up to 300 Meters Wiring

With advanced HomePlug AV technology, the PL-510W provides users with stable, high speed data transfer rates up to 200Mbps on electric powerline length up to 300 meters. Therefore, the PL-510W 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.

Secures the network connection with the Pair button, no need to remember passwords

Simply by pushing the button on the PL-510W, 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

Quick Wireless Connection via WPS button

The PL-501W supports users to immediately getting access to high speed Wireless sharing via easy WPS setup:

Step 1: Mouse click the WPS button in the PC / Laptop

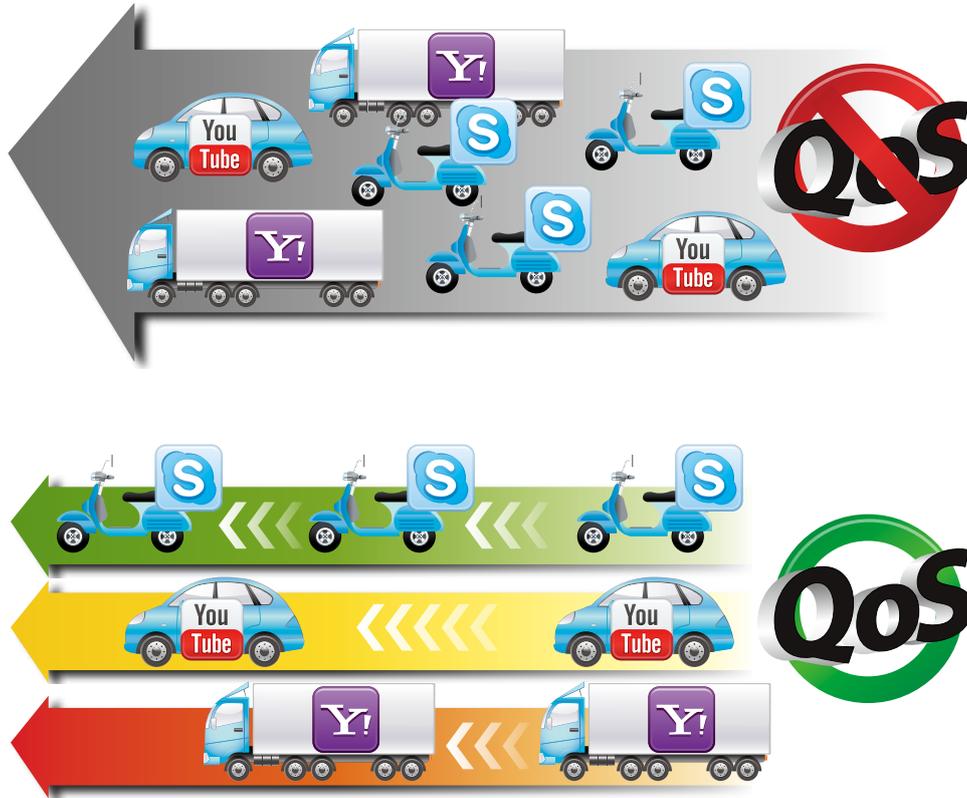Step 2: Press the WPS button on the PL-510W

Step 3: Wireless connection is done

WPS (Wi-Fi Protected Setup)-AP Mode
Quick & Easy Wireless Connection

STEP.1 STEP.2 STEP.3

WPS Click

Press WPS/RST

Connected

Wi-Fi Link

Efficient Bandwidth Management by QoS (Quality of Service)

Quality of Service (QoS) is provided by the PL-510W enabling a network to provide better service to selected network traffic over various technologies. The PL-510W 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

KEY FEATURES

IEEE COMPLIANT HOMEPLUG AV & WLAN

- Designed for high-definition multimedia streaming

- Data rate up to 200Mbps and distance up to 300 Meters over existing electrical wiring

- IEEE 802.3, IEEE 802.3u, IEEE 802.11n, IEEE 1901 and HomePlug AV standard compliant

- 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

- Easily extends secure wireless network by One-touch Wi-Fi Protected Setup (WPS)
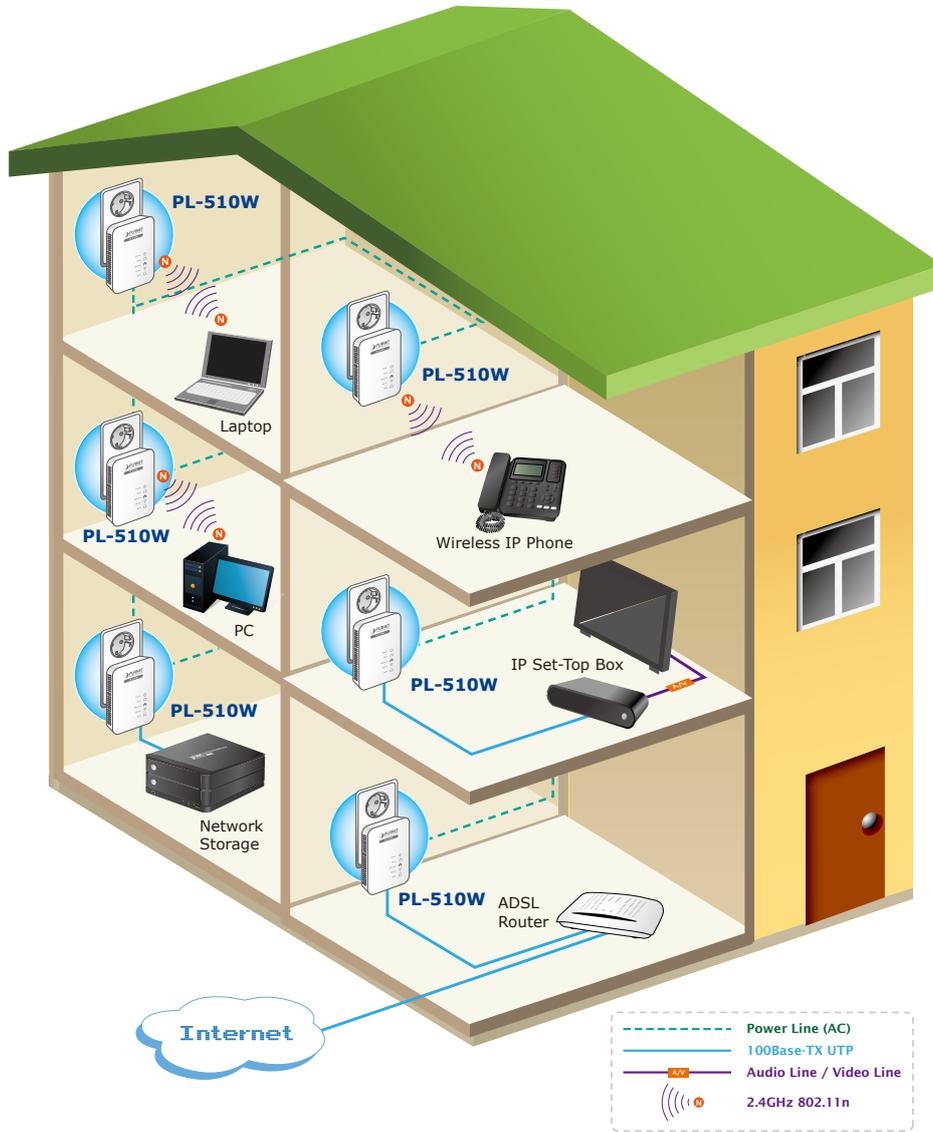
EASY INSTALLATION & MANAGEMENT

- Creates a high speed network connection throughout your home without the mess of cables

- Web-Based UI and Quick Setup Wizard for easy configuration

- Up to 8 Powerline Network Adapters can communicate on a single network

- QoS feature efficiently distributes the downloading rate for the clients

- TDMA and priority-based CSMA/CA channel access schemes maximize efficiency and throughput

APPLICATIONS

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 802.11n Wireless IP STB to the Powerline Wireless N Extender PL-510W, or connect a PC to the PL-510W 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.

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

SPECIFICATION

Product	200M Powerline Wireless N Extender
Model	PL-510W
Hardware Specification	
Network Interface	One RJ-45 port (10/100Base-T Ethernet) One 200Mbps power line port supporting co-existence with HomePlug 1.0 (14/85Mbps)
Antenna	Gain: 2 x Internal 2.5dBi Antenna Orientation: Horizontal and Vertical
Cabling	Cat. 5 UTP cable
LED	Power: On / Off Ethernet: Solid / Blinking / Off Data: Solid / Blinking / Off WLAN: Solid / Blinking / Off WPS: Solid / Blinking / Off
Button	One WPS / Reset button One Pair button
Standards Conformance	
Standard	IEEE 802.11b/g/n
Working mode	AP mode
Frequency Band	2.4~2.4835GHz
Data Transmission Rates	802.11b: 11/5.5/2/1Mbps (Dynamic) 802.11g: 54/48/36/24/18/12/9/6Mbps (Dynamic) 802.11n (40MHz): 270/243/216/162/108/81/54/27Mbps 135/121.5/108/81/54/40.5/27/13.5Mbps (Dynamic) 802.11n (20MHz): 130/117/104/78/52/39/26/13Mbps 65/58.5/52/39/26/19.5/13/6.5Mbps (Dynamic)
Transmission Distance	Indoor up to 100m
Channel	America / FCC: 2.412~2.462GHz (11 Channels) Europe / ETSI: 2.412~2.472GHz (13 Channels) Japan / TELEC: 2.412~2.484GHz (14 Channels)
Channel Width	20 / 40MHz
Max. RF Power	802.11b: 17±1.5dBm 802.11g: 14.5±1.5dBm 802.11n (20MHz): 12.5±1.5dBm 802.11n (40MHz): 12.5±1.5dBm
Receive Sensitivity	802.11b: -92dBm @ 1Mbps; -85dBm @ 11Mbps, PER < 8% 802.11g: -88dBm @ 6Mbps; -73dBm @ 54Mbps, PER <10% 802.11n: -90dBm @ MCS8; -70dBm @ MCS15, PER <10%
Encryption Security	WEP (64/128-bit) encryption security WPA / WPA2 (TKIP/AES) WPA-PSK / WPA2-PSK (TKIP/AES)
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	200Mbps 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 ~ 30 MHz
Additional Protocols	Mix of TDMA and CSMA/CA channel access scheme; CO device generates a periodic beacon carrier for channel access scheme QoS prioritizes both wired and wireless Internet traffic to bandwidth-sensitive applications like online gaming, IPTV or stream multimedia
Operation Range	Estimated range of 300 meters in wall powerlines

Environment Specifications

Operating	Temperature: 0~40 Degree C Relative Humidity:10~90% (non-condensing)
Storage	Temperature: -40~70 Degree C Relative Humidity: 0~90% (non-condensing)
Power Supply	100~240V AC, 50~60Hz internal
Housing Dimension (W x D x H)	94 x 29.85 x 32 mm
Weight	94 g
Emission	FCC, CE

ORDERING INFORMATION

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-510W-KIT-EU	200M Powerline Wireless N Extender KIT (Two Devices Pack, EU type)
PL-510W-KIT-UK	200M Powerline Wireless N Extender KIT (Two Devices Pack, UK type)
PL-510W-KIT-US	200M Powerline Wireless N Extender KIT (Two Devices Pack, US type)

RELATED PRODUCTS

PL-501-EU	200M Powerline Ethernet Bridge (EU type direct-attached)
PL-501-UK	200M Powerline Ethernet Bridge (UK type direct-attached)
PL-501-US	200M Powerline Ethernet Bridge (US type direct-attached)
PL-551-EU	200M Powerline Pass-Through Adapter (EU type direct-attached)
PL-701-EU	500M Powerline Ethernet Bridge (EU type direct-attached)
PL-701-UK	500M Powerline Ethernet Bridge (UK type direct-attached)
PL-701-US	500M Powerline Ethernet Bridge (US type direct-attached)
PL-702-EU	500M Nano Powerline Ethernet Bridge (EU type direct-attached)
PL-702-UK	500M Nano Powerline Ethernet Bridge (UK type direct-attached)
PL-702-US	500M Nano Powerline Ethernet Bridge (US type direct-attached)
NAS-7103	1-Bay SATA NAS Server
NAS-7202	2-Bay SATA NAS Server
NVR-401	4-CH Network Video Recorder
NVR-420	4-Ch Network Video Recorder with HDMI

C-PL-510W