TP-LINK®

User Guide

TL-PA4030

AV500 3-port Mini Powerline Adapter



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FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE Mark Warning

CE

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



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Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

AT	BG	BY	CA	CZ	DE	DK	EE
ES	FI	FR	GB	GR	HU	Ш	IT
LT	LV	MT	NL	NO	PL	PT	RO
RU	SE	SK	TR	UA			

This product can be used in the following countries:

P-LINK TP-LINK TECHNOLOGIES CO., LTD

DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AV500 3-port Mini Powerline Adapter

Model No.: TL-PA4030

Trademark: TP-LINK

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 2004 / 108 / EC, Directives 2006 / 95 / EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents:

EN 55022:2010 EN 55024:2010 EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008 EN 50412-2-1:2005 EN 60950-1:2006+A11:2009+A1:2010+A12:2011

The product carries the CE Mark



Person responsible for marking this declaration:

Yang Hongliang Product Manager of International Business

Date of issue: 2013

TP-LINK TECHNOLOGIES CO., LTD.

Building 24 (floors 1, 3, 4, 5), and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

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Package Contents

The AV500 3-port Mini Powerline Adapter package contains the following items:

- One AV500 3-port Mini Powerline Adapter (There are two AV500 3-port Mini Powerline Adapters in Starter Kit)
- > One RJ45 Ethernet Cable (There are two RJ45 Ethernet Cables in Starter Kit)
- > One Resource CD
 - This Guide
 - Management Utility

P Note:

Make sure that the package contains the above items. If any of the above items are damaged or missing, please contact your dealer immediately.

Chapter 1 Introduction

Congratulations on your purchase of this outstanding Powerline Adapter. This device is an AV500 3-port Mini Powerline Adapter which transforms your house's existing electrical wiring into a ubiquitous networking infrastructure. Simply plug this AV500 3-port Mini Powerline Adapter into an ordinary AC power outlet which will easily extend your Cable/xDSL broadband connection or existing Ethernet (LAN) network to any other electrical outlet in any room of a house without the need of any new cabling.

This Powerline Adapter supports up to 500Mbps data rate over the existing household power circuit. With data rates of 500Mbps, full multimedia application can easily be supported throughout the whole house in addition to Internet access. This Powerline Adapter uses the existing power lines installed in a home as a path to transmit digital data, voice, audio and video between devices.

To ensure data communication's security and multimedia applications, this Powerline Adapter supports built-in 128-bit AES encryption and Quality of Service (QoS) features.With minimum setup, you can install and use this Powerline Adapter within minutes. The adapter adds two useful functions.

- 1. Existing connection with a new unassociated device added via the **Pair** button.
- 2. Reset to default setting via the Management Utility.

1.1 Conventions

The powerline adapter or AV500 3-port Mini Powerline Adapter mentioned in this guide stands for TL-PA4030 AV500 3-port Mini Powerline Adapter without any explanation.

1.2 System Requirement

- a) At least two power outlets (100–240V~) with standard home power wiring
- b) A computer with the following:
 - > Operating System with TCP/IP installed
 - > Pentium III compatible processor and above
 - > Ethernet LAN card installed with TCP/IP protocol
 - > 64 MB RAM or more
 - > 50 MB of free disk space (Minimum)
 - > CD-ROM Drive

1.3 Important Safety Instructions

- 1. Do not open this product or attempt to service it; it may expose you to dangerous high voltage or other risks.
- 2. Do not operate this product near water.
- 3. Do not place or operate this product near a radiator or a heat register.
- 4. Do not expose this product to dampness, dust or corrosive liquids.
- 5. Do not connect this product or disconnect it from a wall socket during a lightning or a thunderstorm

- 6. Do not block the ventilation slots of this product, for insufficient airflow may harm it.
- 7. Do not put anything on this product.
- 8. Plug this product directly into a wall socket (100–240V~). Do not use an extension cord between this product and the AC power source.
- 9. When plugging this product into a wall socket, make sure that the electrical socket is not damaged, and that there is no gas leakage.
- 10. Place the connecting cables properly so that people won't stumble or walk on it.
- 11. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult the qualified technician.
- 12. Unplug this product from the mains and refer the product to qualified service personnel for the following conditions:
 - > If liquid has been spilled on the product
 - > If the product has been exposed to rain or water
- 13. Unplug this product from the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleaners.
- 14. The specification of the fuse is **T2.5AL250V**. To avoid damage, please do not change the fuse.
- 15. The Operating temperature is $0^{\circ}C \sim 40^{\circ}C$ ($32^{\circ}F \sim 104^{\circ}F$).
- 16. The Storage temperature is -40° C \sim 70 $^{\circ}$ C (-40 $^{\circ}$ F \sim 158 $^{\circ}$ F).

Chapter 2 Connecting Mechanism

2.1 Introduction

The Powerline Adapter supports up to 500Mbps data rate. With this high speed connection rate, this Powerline Adapter allows you to setup a high speed home network by using your home existing electrical wiring. Simply plug this Powerline Adapter into an ordinary power outlet to extend your Cable/xDSL broadband connection or existing LAN network to any other electrical outlet in any rooms of your house.

Note that this Powerline Adapter works in pairs. You need to plug one Powerline Adapter into a power outlet for each computer (Connect to the computer LAN card) you want to connect (Network access); you will also need another Powerline Adapter connected to your Cable/xDSL broadband (Ethernet port) in order to extend your broadband connection or Internet surfing. With clean powerline, the distance between two Powerline Adapters can reach 300 meters at lease, but the actual distance may vary due to the environment.

Section below describes the Powerline Adapter's LED indicators, physical interface and hardware connection mechanism.

2.2 LED Indicator

The LED indicator displays information about the device's status.



ltem	Status	Indication	
	On	The adapter is on.	
	Blinking	The adapter is in pairing procedure.	
Power LED	Off	The adapter is off.	
On The adapter is connected to a powerline ne			
Powerline LED	Blinking	The adapter is transferring data.	
	Off	The adapter isn't connected to any powerline network.	

	On	At least one Ethernet port is connected, but there is no data being transferred.
Ethernet LED	Blinking	At least one Ethernet port is transferring data.
	Off	No Ethernet port is connected.

2.3 Physical Interface

There are three types of physical interfaces on this Powerline Adapter.



Interface	Description
Ethernet Port	Three 10/100Mbps Ethernet ports for connecting the adapter to the PC or the broadband device with a network cable.
Power Plug*	A Power Plug for connecting the adapter to a power socket (100–240V~).
Pair Button	Pair button is used to secure a powerline network. To secure your network, please follow the steps below. Firstly, plug in a new adapter, and press its pair button for 1 second; then plug in another adapter and press its pair button for 1 second as well. The two buttons should be pressed within 2 minutes of each other. After that, wait about 60 seconds so that the two adapters can finish connecting.

* The provided power plug may differ from the picture due to different regional power specifications. Here we take the EU version of this product as an example.

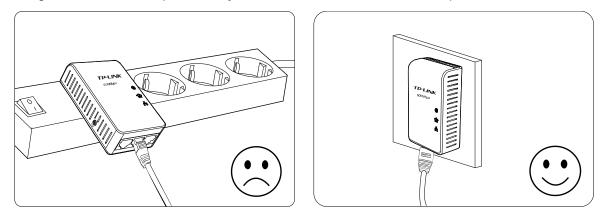
P Note:

- 1. If the pair button is pressed till all the LEDs turn off (about 10 seconds), the Powerline Adapter will leave the network which it is associated with and its network name assumes a random value. The Power LED turns off when it disconnects from the Powerline network.
- 2. For detailed information about the Pair button, please refer to <u>Chapter 5 Advanced Feature:</u> <u>How to Use the Pair Button.</u>

2.4 Connection Instruction

To ensure the optimum performance of the Powerline Adapter and significantly improve the transmission capacity of the network, we recommend that you comply with the following connection rule:

• Plug the Powerline Adapter directly into a wall socket but not the multiple sockets.



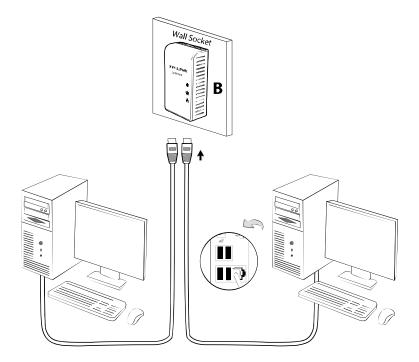
2.5 Hardware Connection – Computer

For those computers you wish to be networked by Powerline Adapter, each of the computers must be properly connected with a Powerline Adapter through an Ethernet (RJ45) cable.

Following are the steps to properly connect the Powerline Adapter to your computer:

- 1. Connect one end of the provided Ethernet (RJ45) cable to an Ethernet port of the Powerline Adapter.
- 2. Connect the other end of the Ethernet (RJ45) cable to you computer's LAN port.
- 3. Plug the Powerline Adapter into a wall socket next to the computer.
- 4. Turn on your computer.
- 5. Check and confirm that the Power LED ^U and Ethernet LED ⁿ on the Powerline Adapter are **ON**.

The hardware connection mechanism is shown below:

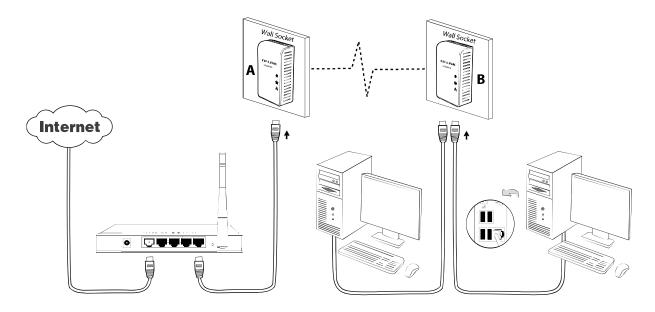


2.6 Hardware Connection – Internet

This section describes how to connect the Powerline Adapter into your existing ADSL broadband connection via ADSL Ethernet port. Follow the procedures described below to connect the Powerline Adapter to your ADSL broadband connection:

- 1. Connect one end of the provided Ethernet (RJ45) cable to an Ethernet port of the Powerline Adapter.
- 2. Connect the other end of the Ethernet (RJ45) cable to an available Ethernet port of your ADSL broadband Router.
- 3. Plug the Powerline Adapter into a wall socket next to the computer.
- 4. Turn on your computer.
- 5. Check and confirm that the Power LED 0, Ethernet LED \clubsuit , and Powerline LED 1 on the Powerline Adapter are **ON**.

The hardware connection mechanism is shown below:



Note:

Do not connect the Powerline adapter to an extension lead, power strip, extension cord, or surge protector as these may degrade the network performance.

Chapter 3 Installing Management Utility

Please verify that no other Powerline Adapter or any Encryption Management Utilities are installed before installing the provided software. If other Powerline Utilities are installed, uninstall them and restart your personal computer before installing this provided software.

Note:

To install PowerLine Utility, please make sure that WinPcap (version 4.1.2 or higher) has been installed in your computer. Otherwise, a window will pop up for you to install WinPcap 4.1.3.

Take the following procedures to properly install the provided Management Utility:

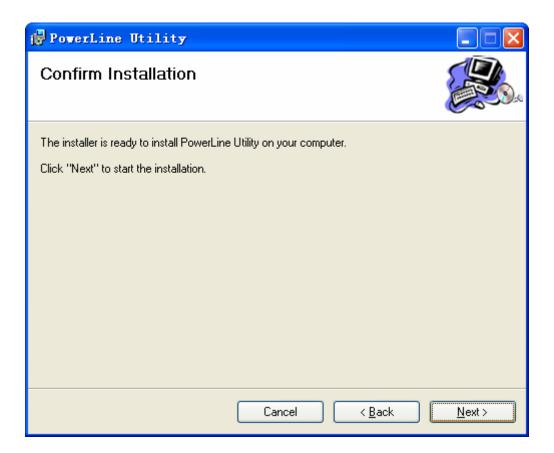
Step 1: Insert the Resource CD into your CD-ROM drive, and then the following Setup Wizard will automatically pop up on your computer's screen.

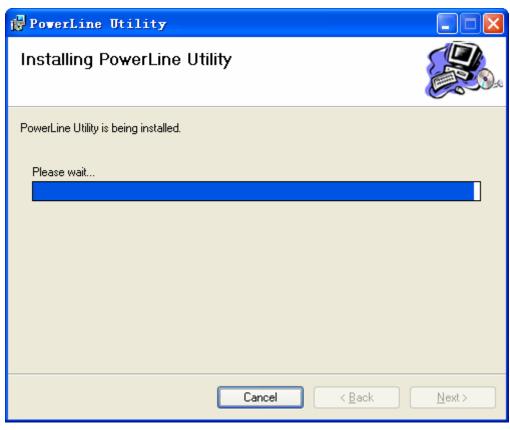


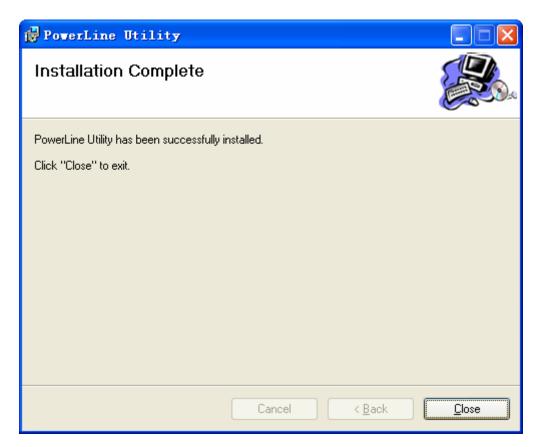
Step 2: Select **500Mbps Powerline** and click **Management Utility**, and then the program installation process will carry out and copy all the necessary files to your system.



PowerLine Utility	
Select Installation Folder	
The installer will install PowerLine Utility to the following folder. To install in this folder, click "Next". To install to a different folder, enter it be	low or click "Browse".
<u>Folder:</u> C:\Program Files\TP-LINK\PowerLine Utility\	B <u>r</u> owse
	<u>D</u> isk Cost
Install PowerLine Utility for yourself, or for anyone who uses this computer	:
○ <u>E</u> veryone	
⊙ Just <u>m</u> e	
Cancel < <u>B</u> ack	<u>N</u> ext >







Step 3: After the installation, a shortcut to the **"Powerline Utility"** application icon is provided on the windows desktop.



Chapter 4 Using the Management Utility

After you'd successfully installed the Powerline Adapter hardware and Management Utility software, you can set up or configure the devices according to your need.

This Powerline Utility enables the users to identify powerline devices on the powerline network, measures data rate performance and ensures privacy by setting user defined secure powerline networks.



Double click on the icon "^{PowerLine} Utility" from your windows desktop, the following screen will display. This Management Utility consists of a four property tabs, "**Status**", "**Network**", "**Advanced**" and "**System**".

	And and Annual Annua				- ×
_	0	1	4		
Status	Network	Advanced	System		
Local Device I	Information:				
	MAC Address:	00:80:52:	00:10:01		
	Network Name:	HomePlugA	V		
		🔽 Use Defa	ault(HomePlugAV)	Apply	
	Password:	UGJH-BF	QJ-QULM-VUIY		
	Firmware:	500A-1.1.	0.844-01-20120919-	FINAL	
Refresh]				

4.1 Status

The **Status** tab shows information of the powerline adapter connected to the current computer where the Management Utility is running. On this page, you can also set its network name.

TP-LIN					- ×
	0	6	4		
Status Local Device I	Network	Advanced	System		
	MAC Address:	00:80:52:	00:10:01		
	Network Name:	HomePlugA	V		
			ault(HomePlugAV)	Apply	
	Password:		QJ-QULM-VUIY		
	Firmware:	500A-1.1.	0.844-01-20120919-1	FINAL	
Refresh]				

- MAC Address: Displays the MAC address of the powerline adapter connected to the current computer where this management utility is running.
- Network Name: Displays the network name of the current network or you can give a name for the network in which the powerline adapter is. By default, the network name is HomePlugAV.
- Use Default (HomePlugAV): Check the box before this item to use the default network name.
- > Apply: Click the Apply button to make the setting effective.
- Password: Displays the password of the current powerline adapter. Every powerline adapter has its own password by default, which can be also found on the back of the adapter.
- > Firmware: Displays the current firmware version used by the adapter.
- **Refresh:** Click the **Refresh** button to update the information.

4.1.1 Set Local Device's Network Name

To set the local device's network name, please take the following steps:

- (1) Click **Status** tab to display the **Status** tab window.
- (2) Enter a name for the current network using 4–23 characters. Or you can check the Use Default (HomePlugAV) to use the default name as the network name. By default, the network name is HomePlugAV.
- (3) Click the **Apply** button to make the settings take effect.

4.2 Network

The **Network** tab window shows information of all the powerline adapters found on the current logical network. Furthermore, here you can change the Name of the listed powerline adapters as well as add another device to the current network.

The Rel	-LIN Iable Choice	ĸ				- x
Sta	tus	Network	C Advanced	🥨 System		
Remo Type	te Devices: Name	Mac Address	s Passw	rord	Rate	Option
	Device1	00:B0:52:00:	10:32		435 Mbps	Modify
Sta Remot						
	scan					Add

- > **Type:** Displays the type of the remote device found in the network.
- Name: Displays the name of the remote device found in the network. You can change its name following two steps: select the desired adapter and click the Modify button.
- > **MAC Address:** Displays the MAC address of the remote device found in the network.
- Password: Displays the supplied Powerline Adapter's password (Initially left blank). To set the Powerline Adapter password (Which is required when creating a private network or managing all the devices), select the device shown in the figure and click the **Modify** button. Follow the pop-up dialog box to complete your password setting.
- **Rate:** Shows the current transmission rate of the Powerline Adapter.
- Rescan: Click the "Rescan" button to perform an immediate search of the remote Powerline Adapter. The Management Utility will automatically perform the scanning process and update the display every few seconds by default.
- Option: Select the device and click the Modify button to display a configuration dialog. There you can change the corresponding adapter's name and enter its password for future configuration.

4.2.1 Rename the Remote Device/Enter Password

You can change the name of the remote adapter to an easy-to-remember one. Additionally, you can select the desired adapter and enter its password (Take note of the password format) so as to set the network name of this device on **System** configuration homepage. To change the name of the remote adapter or enter its password, please follow the steps below:

(1) Select the desired device and click the **Modify** button to display the following dialog.

Please input the device's name and password.
Device Name: Device1
Device Password:
Save Cancel

- (2) Enter a new name for the selected adapter and enter its password (Take note of the password format). The password can be found on the back of adapter.
- (3) Click the **Save** button to make the settings effective.

Note:

Password is unnecessary to enter for renaming.

4.2.2 Add Device

You can add a remote Powerline Adapter to your network that is not in the displayed list. You are suggested to locate the passwords for all Powerline Adapters you wish to manage and add them to the local logical network by clicking the **Add** button.

Click the **Add** button to display the following dialog box. This dialog box allows you to enter both the selected device's name and password. Note that the Powerline Adapter must be present on the power grid in order to activate the set password and be added to the local network.

Enter your **Device Name** and **Password** (Take note of the password format) and click the **Save** button after setup.

Please input the device's name and password.
Device Name:
Device Password:
Save Cancel

4.3 Advanced

The third tab window labeled "**Advanced**" is for Quality of Service. With the proper configuration, the limit bandwidth can be took full advantage. QoS requirements are different for various data types such as streaming video or music, voice and raw data. To provide higher QoS for streaming data, priority levels can be set using tags at the beginning of data frames. Virtual Local Area Network (Vlan) 802.1p priority tags on Ethernet frames are used to specify 8 (0~7) levels of "user priority". Homeplug AV powerline allows for 4 levels of Channel Access Priority CAP 0-3)). Therefore, the 8 levels of VLAN Ethernet tags must be mapped to the 4 levels of CAP priority, where CAP 3 is the highest priority and CAP 0 is the lowest. CAP 3 priority might be used for voice and network management frames, CAP 2 is used for streaming video while CAP 1 and CAP 0 are used for data. Mapping VLAN tags to CAP levels is easily done using the VLAN Priority Mapping function on the QoS tab window.

TP-LIN							F
Status	Network	Advanced	System				
dvanced QoS	Setting:						
💿 Simple Appli	cation Mapping		O Advanced Priori Priority Using	ty Mapping VLAN	Tags	TOSE)its
🔘 Int	ernet		ο	CAP1	~	CAP1	Y
			1	CAPO	~	CAPO	v
💿 Or	nline Game		2	CAPO	~	CAPO	Y
-			3	CAPI	~	CAP1	~
O Au	dio or Video		4	CAP2	~	CAP2	v
			5	CAP2	~	CAP2	Y
⊖ Vo	ice over IP		6	CAP3	~	CAP3	Y
			7	CAP3	~	CAP3	~
						Sav	e

- Simple Application Mapping: The group allows you to choose what type of traffic with the highest user priority you will use your local HomePlug device for by pitching one of the following radios. Please select the radio type according to your demand.
- Advanced Priority Mapping: The group sets VLAN priority to CAP mapping and default priority. Note that in HomePlug, CAP 3 is the highest priority while CAP 0 is the lowest priority. The values shown in VLAN Tags Priority are the default settings for the first running.

4.4 System

The **System** tab window is for some basic settings of the adapter. On this tab window, you can upgrade the firmware to the latest version, reset the adapter's settings to the factory defaults and configure all adapters' network names.

TP-LIN				E
Status	Network	C Advanced	System	
Jpgrade Firn	nware:			Upgrade Firmware
Reset Device	•			Opgrade Filmware
Reset Loc	al Device			Reset All Devices
Set All Devic	es' Network Nam	e:		
		🗌 Use Default(Ho	omePlugAV)	Set Network Name

4.4.1 Upgrade Firmware

Click the **Upgrade Firmware** button to upgrade the version of the firmware for the adapter and the following dialog will pop up.

Please select the correct PIB and N∨M.					
NVM:	(*)				
PIB:					
	OK Cancel				

- **NVM**: None-volatile memory. It is used for upgrading the firmware.
- **PIB**: Parameter Information Block. It contains configuration values that establish device network identity, general capabilities and operational modes.

If you want to upgrade the version of firmware for the device, please select appropriate Firmware and PIB files together. New firmware versions and PIB files are posted at <u>www.tp-link.com</u> and can be downloaded for free.

Note:

The parameter information of PIB will restore to the factory defaults after resetting the PLC.

To upgrade the device's firmware, follow these instructions:

- 1. Download PIB file and firmware upgrade file from the TP-LINK website (<u>www.tp-link.com</u>).
- 2. Enter the path name or click 🔄 to select the downloaded files on the computer into the corresponding blanks.
- 3. Click the **OK** button.

Note:

Do not turn off the device while the firmware is being upgraded. The device will reboot after the Upgrading has been finished.

4.4.2 Reset Device

This Management Utility allows you to reset the Powerline Adapter to its default settings.

- **Reset Local Device:** Click this button to reset the settings of the local Powerline Adapter device only.
- **Reset All Devices:** Click this button to reset the settings of all devices that appear on the **Network** configuration homepage whose Device Password had been entered for the same logical network.

4.4.3 Set All Devices' Network Name

The **Set All Devices' Network Name** function allows you to change the logical network of all devices that appear on the **Network** configuration homepage whose Device Password had been entered for the same logical network. A dialog window will appear to report the success of this operation.

All Powerline devices are shipped using a default logical network (network name), which is normally "HomePlugAV".

To set all devices' network name, please type the name in the field and click the **Set Network Name** button to apply the setting.

P Note:

Every Powerline Adapter on your home network **MUST** have the same **Network Password** for connectivity to be established throughout your home.

Chapter 5 Advanced Feature: How to Use the Pair Button

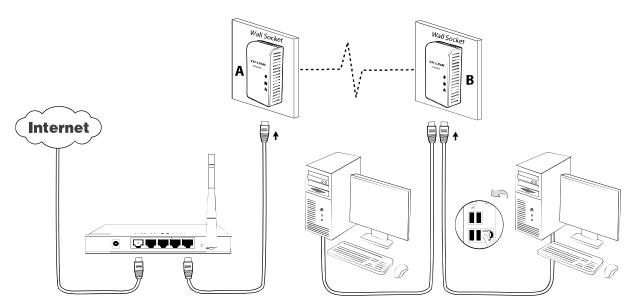
5.1 Pair (Secure with 128 bits-AES)

The Homeplug AV standard uses 128-bit AES (Advanced Encryption Standard) to safely transmit data between powerline adapters. For the powerline adapters to communicate with each other they all need to use the same Network Membership Key (NMK). Otherwise, they cannot unscramble the encrypted data sent in the powerline network.

The **Pair** button allows you to set up a secure powerline connection with other HomePlug AV compliant powerline devices which also support the **Pair** feature.

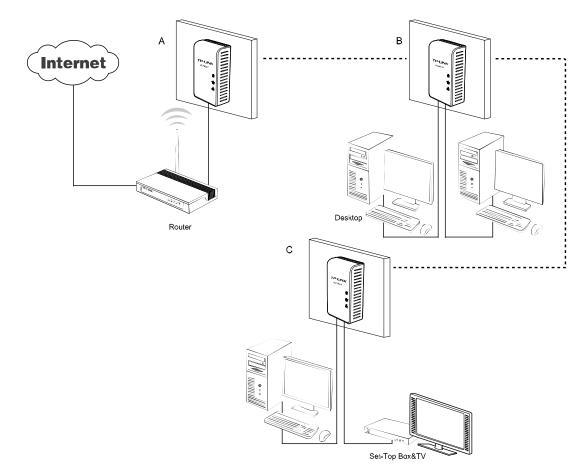
5.2 Set Up a Powerline AV Network with the Pair Button

You can connect a number of devices on a powerline network, but you can use the **Pair** button on only two devices at a time.



Create a Powerline network using the Pair button:

- **Step 1**. Press and hold the Pair button of Powerline adapter A for 1 second, the Power LED will start flashing.
- **Step 2**. Within 2 minutes, press and hold the Pair button of Powerline adapter B for 1 second, the Power LED will start flashing.
- **Step 3**. Wait for about 60 seconds while your Powerline adapter A and B are connecting. The Power LED on both adapters will stop flashing and become solid light when the connection is made.



Join an existing Powerline AV Network:

Powerline adapter A and Powerline adapter B form a HomePlugAV Network, Powerline adapter C wants to join this network.

- Step 1. Press and hold the Pair button on Powerline adapter C for 1 second.
- Step 2. Within 2 minutes, press and hold the Pair button on Powerline adapter A/B for 1 second.
- **Step 3**. Wait for about 60 seconds while your Powerline adapters are connecting. The Power LEDs on Powerline adapter A/B and C will stop flashing and become solid light when the connection is made.

Note:

The sequence of Step 1 and Step 2 can be exchanged.

Leave an existing Powerline AV Network:

As the figure above shown, Powerline adapter A, B and C have formed a HomePlugAV Network. The user wants to remove one device (Powerline adapter A) from this network.

- **Step 1**. Press and hold the Pair button on Powerline adapter A for at least 10 seconds. Powerline adapter A will reset and restart. (The Power LED of Powerline adapter A will momentarily extinguish during resetting, flash during restarting, and then illuminate steadily.)
- **Step 2**. Wait for the reset to complete.

Appendix A: Troubleshooting

The Troubleshooting provides answers to common problems regarding the Powerline Adapter.

1. The Power LED ^U does not light up.

Ans. Check the following:

- 1. Make sure that the Powerline Adapter is properly plugged into a power outlet.
- 2. Make sure the power outlet is active (working) by plugging another electric device into it.
- 3. Re-plug the Powerline Adapter to the power outlet. If the Power LED is still failed to light up, contact your local dealer for technical support.

2. The Ethernet LED ⁿ does not light up.

Ans. Check the following:

- 1. Make sure that the Ethernet cable (RJ45) is properly connected to an Ethernet port of the Powerline Adapter.
- 2. Make sure that the other end of the Ethernet cable (RJ45) is properly connected to the computer LAN card or to you Cable/xDSL Ethernet port.
- 3. Make sure your computer LAN card is properly installed and configured.
- 4. Make sure your Cable/xDSL broadband access is working and configured correctly.
- 5. Contact your local dealer for technical support if the Ethernet LED is still failed to light up after the above procedures.

3. The Powerline LED ¹ does not light up.

Ans. Check the following:

- Double click to enable the Management Utility and click the "Rescan" button under the Network configuration homepage. The Management Utility will automatically detect all other Powerline Adapters on your powerline network.
- 2. Try to plug a second Powerline Adapter into a nearby power outlet and check whether the Powerline LED lights up or not.
- 3. Contact your local dealer for technical support if the Powerline LED is still failed to light up after the above procedures.