

User Manual

Aztech HL113EP

200Mbps HomePlug AV Ethernet Adapter

With AC Pass - Through

V2.0

Legal Notice

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About the Product

HomePlug AV is ready to use out of the box and does not require the installation of driver software to work. It can be connected to computers, routers, gaming consoles, hubs, IPTV set-top boxes, and other Ethernet devices regardless of operating system.


How Does It Work?

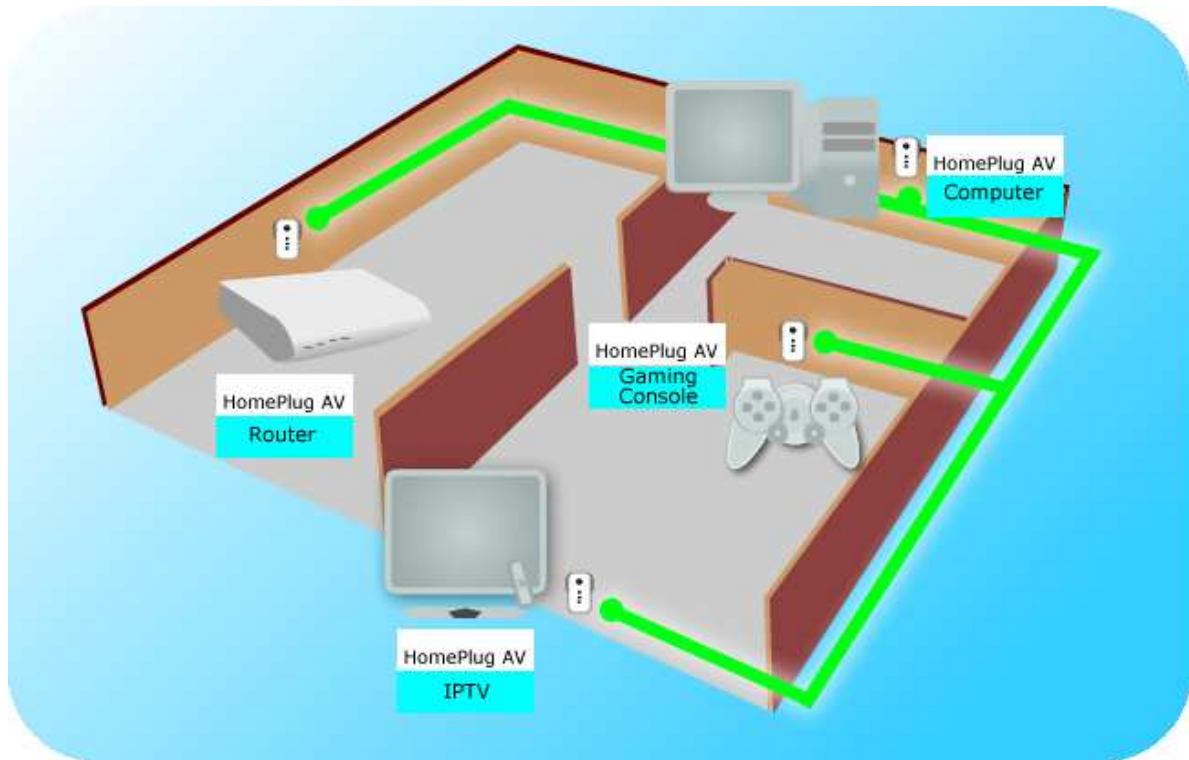
HomePlug AV utilizes the existing electrical wiring in the house as a path to create a secured network of computers and Ethernet devices. With a maximum data rate of up to 200 Mbps, HomePlug AV can reliably handle high requirement applications like broadband Internet, high definition video streaming, and Voice over IP.

HomePlug AV converts digital signals to a complex analog signal that traverses along the electrical wires. When receiving the analog signal, HomePlug AV converts the analog signal back to digital. To make the signal secured, a 128-bit AES encryption is applied.

A HomePlug AV device can only communicate with other HomePlug AV devices that use the same Private Network Name. The Private Network Name can be changed manually using the HomePlug AV Utility software on a computer with a Windows operating system. When you use the software, you have to manually type the Private Network Name for the device. Another way to change the Private Network Name is to use the Simple Connect button. Simple Connect automatically creates an encrypted Private Network Name. It can also be used to reset the Private Network Name or to add a device into an existing HomePlug AV network.

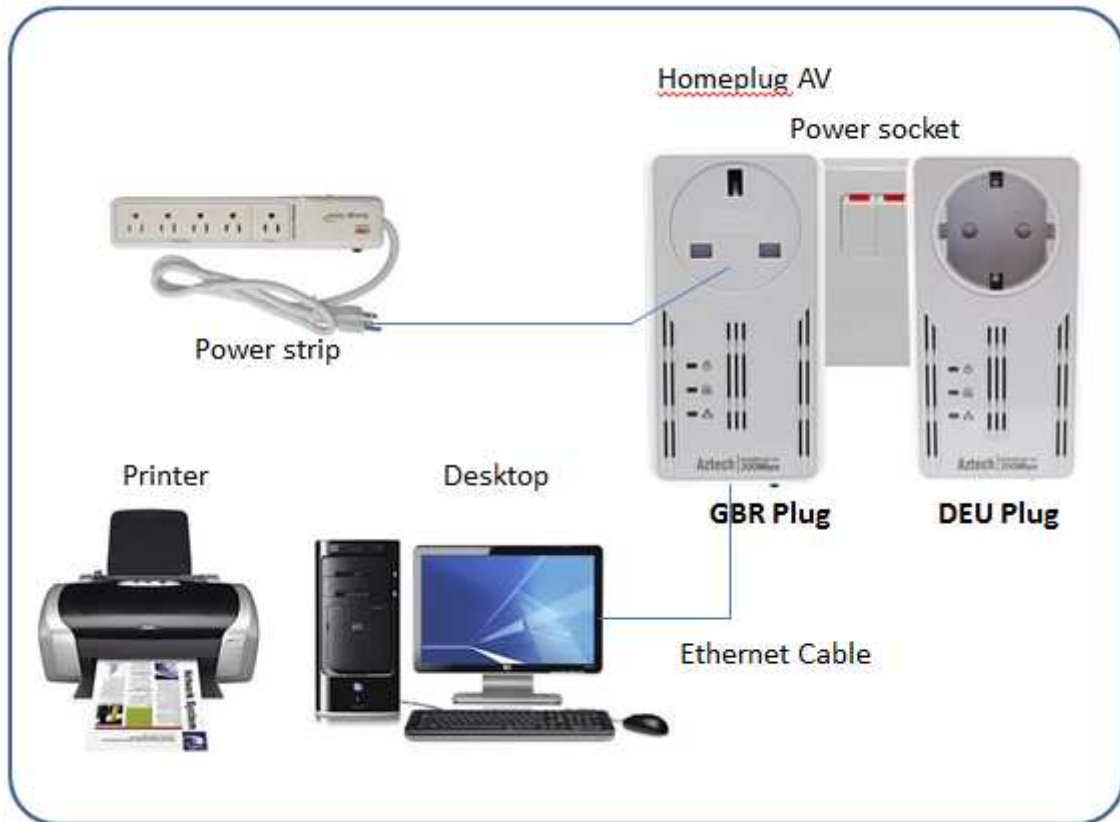
Note: HomePlug AV devices from the Twin Pack are already configured to use a common Private Network Name unique for that pair and are ready to use. The HomePlug AV from a Single Pack, on the other hand, uses a random Private Network Name. You still need to change its Private Network Name to allow it to communicate with an existing HomePlug AV network.

When a HomePlug AV communicates with another device, the Powerline Activity LED  color will give you an idea about the connection rate: Red means below 30 Mbps; Amber means 30 to 80 Mbps; and Green means more than 80 Mbps.



Direct Connection

For best performance, connect HomePlug AV directly to a wall outlet. Avoid connecting it to a power strip where other electrical devices are connected. Other devices create electrical noise that may affect the performance of HomePlug AV.

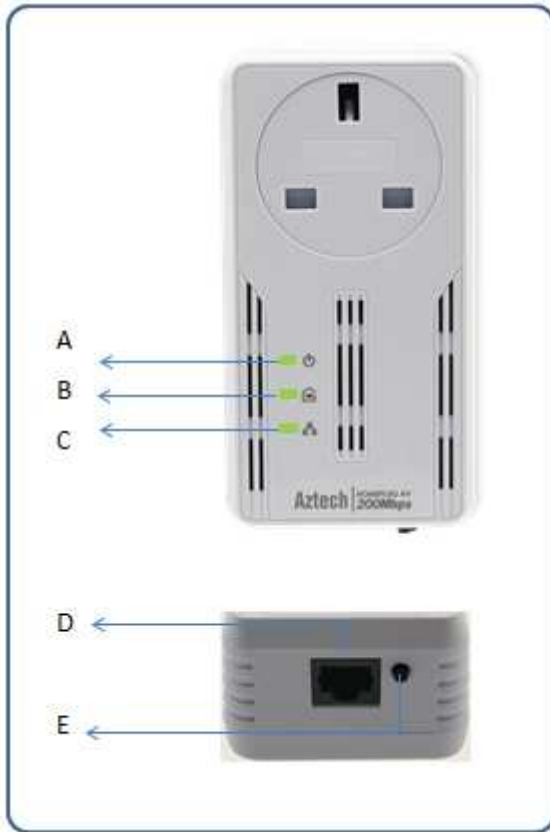


Package Contents

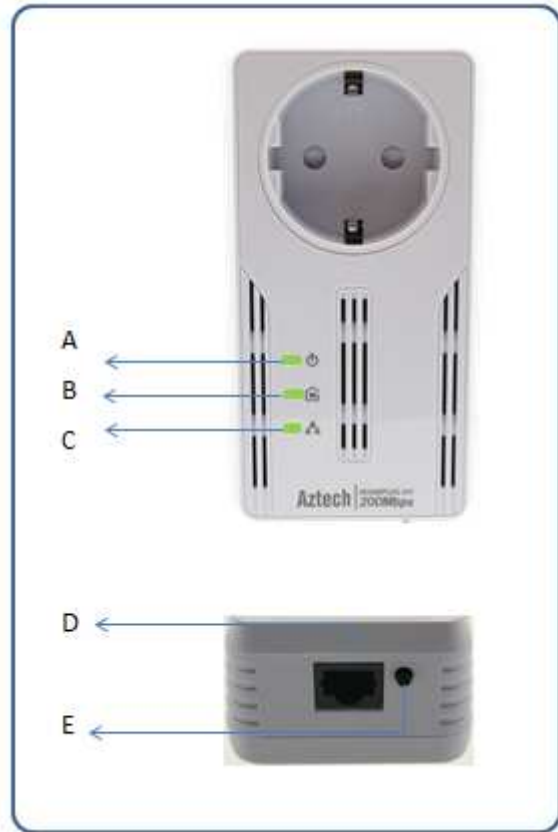
The package contains the following items:

- 1 HomePlug AV for Single Pack or 2 HomePlug AVs for Twin Pack
- 1 Ethernet cable for Single Pack or 2 Ethernet cables for Twin Pack
- Resource CD that contains the HomePlug AV Utility installer and the User Manual.
- Easy Start Guide



Device Design



GBR Plug



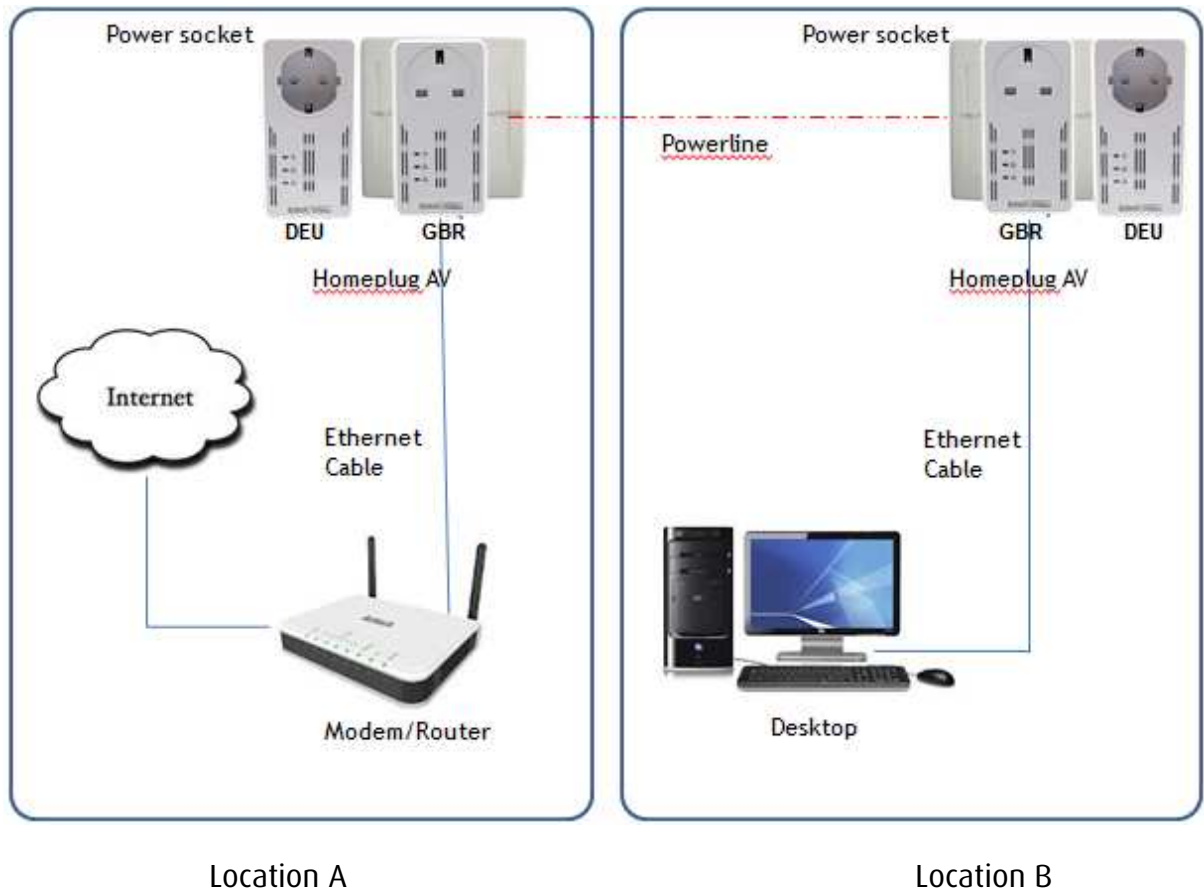
DEU Plug

| | Label | Status | Description/ Function |
|---|---|--------|--|
| | Power LED | Off | <ul style="list-style-type: none"> No power. |
| | | On | <ul style="list-style-type: none"> When LED is on steady green color, Powerline Activity LED is OFF, and Ethernet LED is ON/OFF (Ethernet is connected / disconnected), HomePlugAV is on a Power Saving Status. |
| B | Powerline Activity  | Off | Device is not connected to a HomePlug AV network. |
| | | On | <ul style="list-style-type: none"> After Simple Connect is pressed for 2-4 seconds, this LED will blink to confirm the button press. When Simple Connect is pressed for 10 seconds without releasing, this LED will turn OFF and turn ON to confirm the Private Network Name reset. This LED is blinking in green color when the device is part of a HomePlug AV network. The LED colors represents the connection rate within the HomePlug AV network whether it is good (red), better (amber), or best (green). The LED flashes to indicate network activity. |
| C | Ethernet Activity  | Off | An Ethernet device is not connected. |
| | | On | <ul style="list-style-type: none"> This LED is blinking when an Ethernet device is connected. When Simple Connect is pressed for 10 seconds without releasing, this LED will turn OFF and turn ON to confirm the Private Network Name reset. The LED flashes to indicate Ethernet activity. |
| D | Ethernet Port | | Accepts either cross or straight Ethernet cable. |
| E | Simple Connect Button / Reset Button | | <p>Press to create or join a HomePlug AV network. It can also be used to reset the Private Network Name to a random key.</p> <p>When Simple Connect is pressed without releasing for 10 seconds, it will randomize the Private Network Name.</p> <p>Press for 5 seconds and release to reset to the factory default settings. When you reset to the</p> |
| | | | factory default, all your configuration changes will be removed. |

Pairing the Device

Your HomePlug AV devices by default are preconfigured to have a common Private Network Name. Setting up your HomePlugAV network is as easy as 1, 2 and 3.

1. Plug in your HomePlugAV devices side by side to easily observe the LED behavior. Wait until the Power and PL-ACT LED turns ON to confirm that the connection has been established.

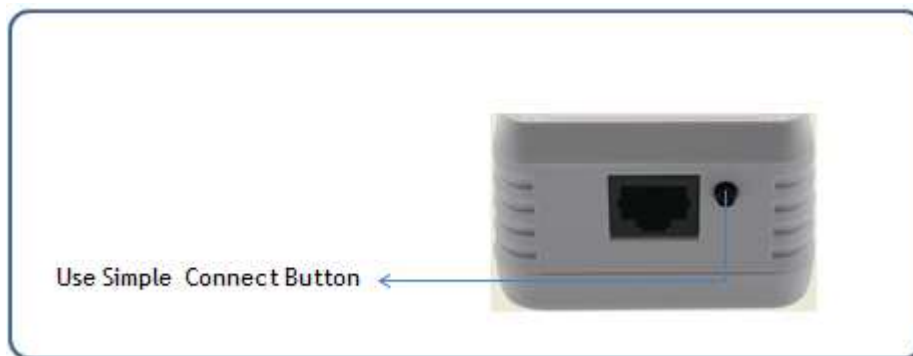


2. In Location A plug in your HomePlugAV into the wall socket then connect it to your Modem/Router's Ethernet LAN port using an Ethernet cable.
3. In Location B plug in your HomePlugAV into the wall socket then connect it to your computer's Ethernet Port using an Ethernet cable. Your HomePlugAV is now ready to use.

How to Use Simple Connect

Simple Connect provides a more convenient way of creating your HomePlug AV network without the need to open the HomePlug AV Utility software from a computer. The button has three main functions which includes:

- Resetting the Private Network Name
- Creating a Secured HomePlug AV Network
- Joining an existing Secured HomePlug AV Network



Resetting the Private Network Name

Simple Connect allows you to reset the HomePlug AV's Private Network Name to a random key. When a HomePlug AV is reset to a random key, it will not be able to communicate with any other device.

Note: Resetting the Private Network Name is different from resetting the device to its factory default settings. If you intend to reset the device to its factory default settings, press Simple Connect Button on the device for 5 seconds and release the button.

To reset the Private Network Name using Simple Connect:

Step 1

Press Simple Connect button for 10 seconds without releasing. The Power LED remains steady green. The Powerline Activity LED and Ethernet will switch OFF and ON (Ethernet is connected).

Step 2

On the second adapter, Press the Simple Connect button for 2 seconds and do it on the first adapter to pair the devices. The Powerline Activity LED will blink to indicate that the button is pressed.



GBR PLUG



DEU PLUG

Creating a Secured HomePlug AV Network

To create a HomePlug AV network, you need at least two HomePlug AV devices using random Private Network Names. When you press Simple Connect for 10-13 seconds on both devices, a common Private Network Name will be automatically generated to enable them to communicate with each other.

Note: New HomePlug AV can already communicate with each other out of the box. However, if you intend to create a new Private Network Name using Simple Connect for both devices, you need to reset their Private Network Names to a random key before proceeding.

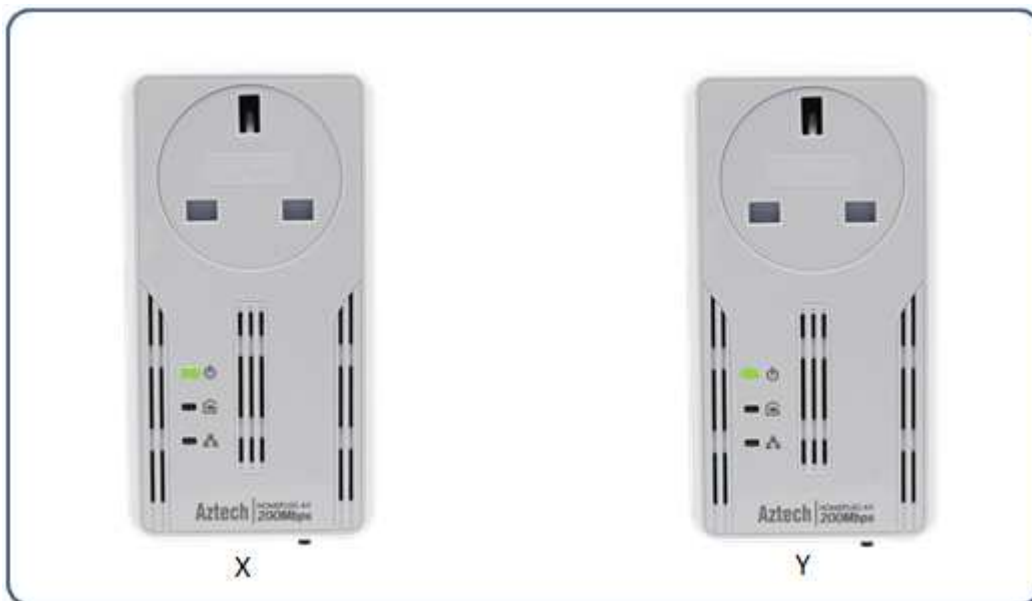
To create a Secured HomePlug AV network using Simple Connect:

Step 1

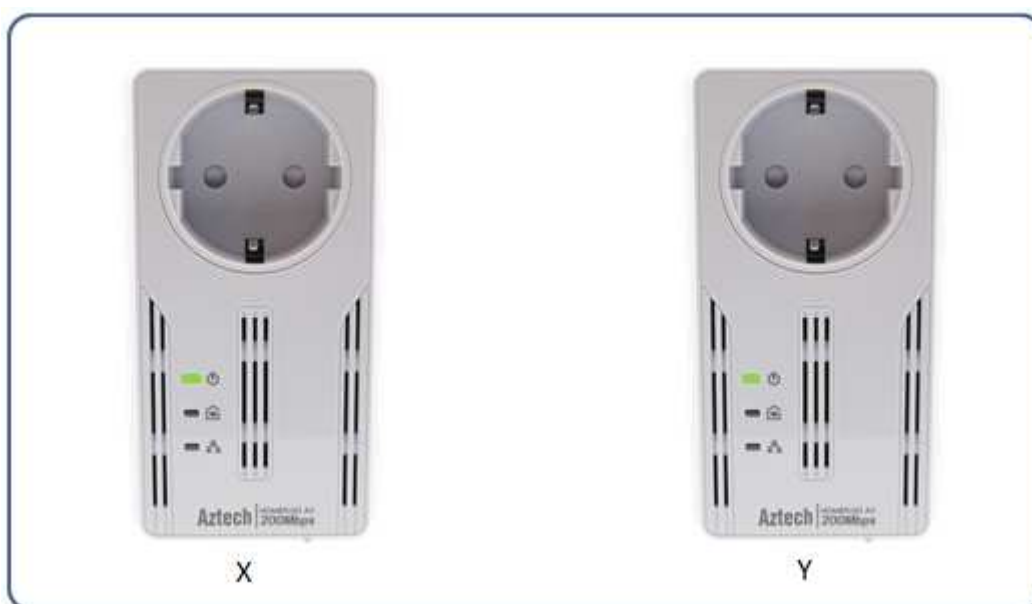
Plug your HomePlug AVs side by side where you can easily observe LED behavior.

Upon connection, the powerline Activity and Ethernet LEDs will blink simultaneously and then the Power LED lights on steadily.

Press the Simple Connect button of the Homeplug AV X for 10 seconds without releasing. Powerline Activity LED will turn OFF and ON indicating that the Private Network Name has been randomized.



GBR Plug

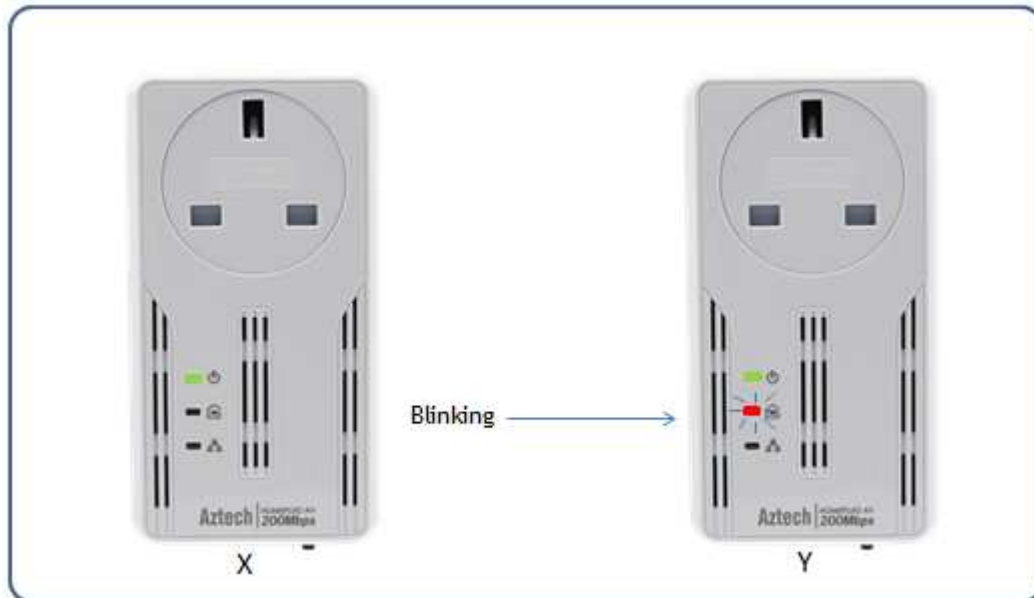


DEU Plug

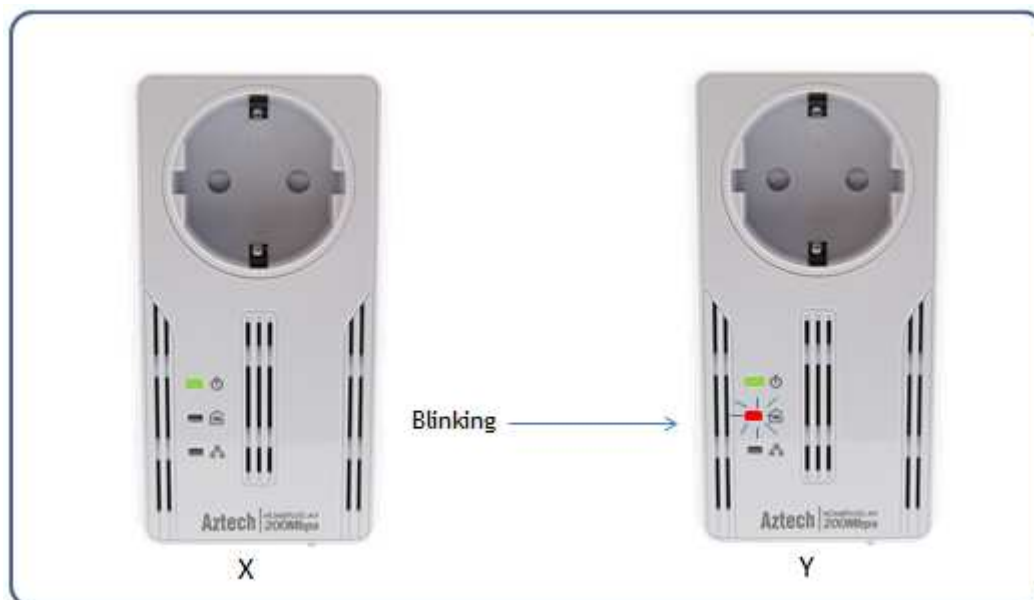
Step 2

Press the Simple Connect button of the HomePlug AV Y for 2 seconds. Powerline Activity LED will blink indicating that the Private Network Name has been randomized.

Note: Do not press Simple Connect for more than 2 seconds.



GBR Plug

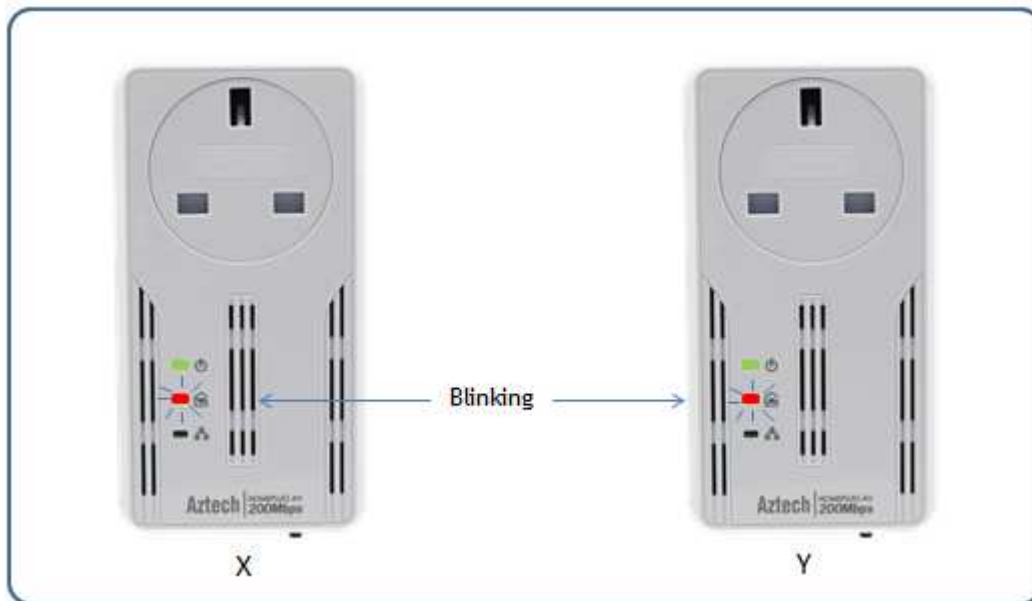


DEU Plug

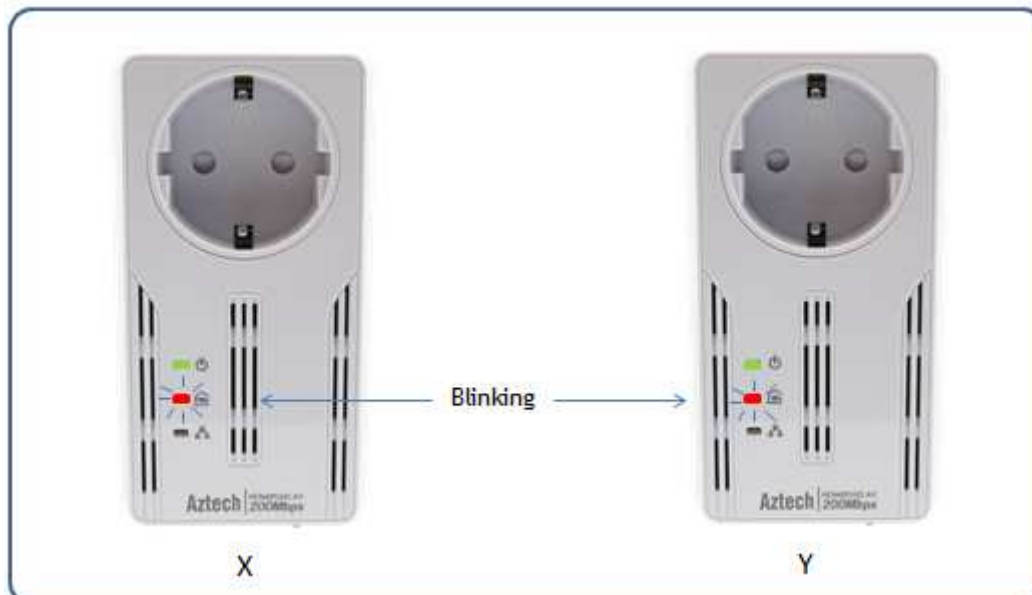
Step 3

Within 2 minutes, Press the Simple Connect button of the HomePlug AV X for 2 seconds. Powerline Activity LED will blink indicating that the Private Network Name has been randomized. Then the two adapters will now be paired.

Note: Do not press Simple Connect for more than 2 seconds




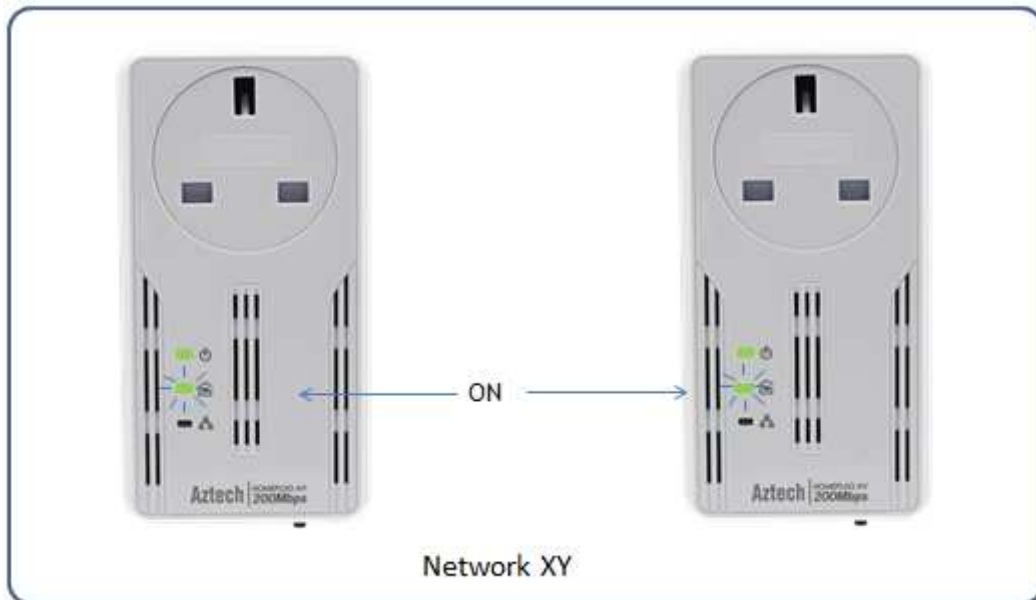
GBR Plug



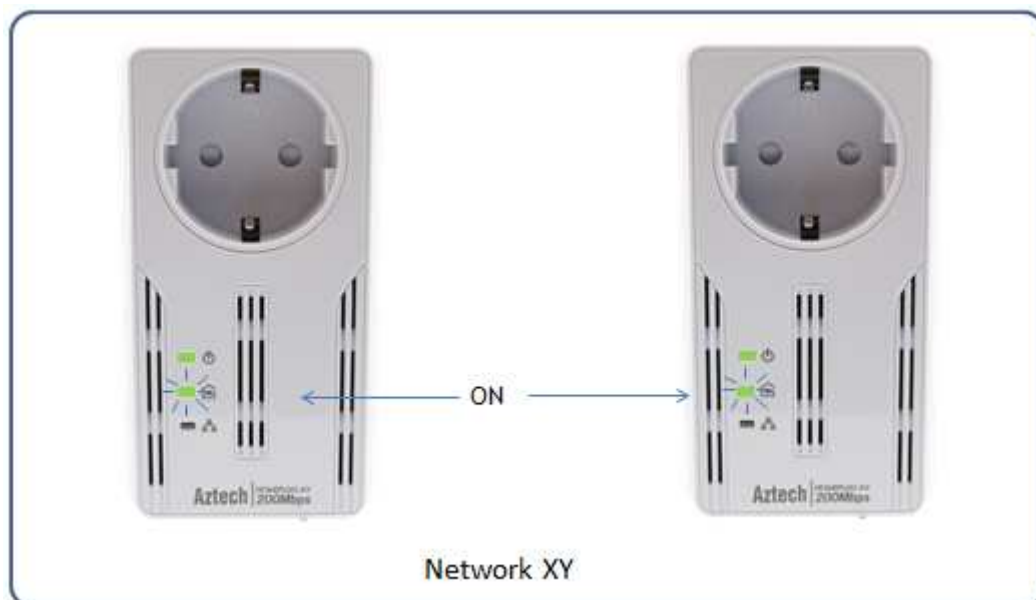
DEU Plug

Step 4


To confirm if the connection was established, check the LEDs. The Powerline Activity LEDs  on both HomePlugs are blinking.

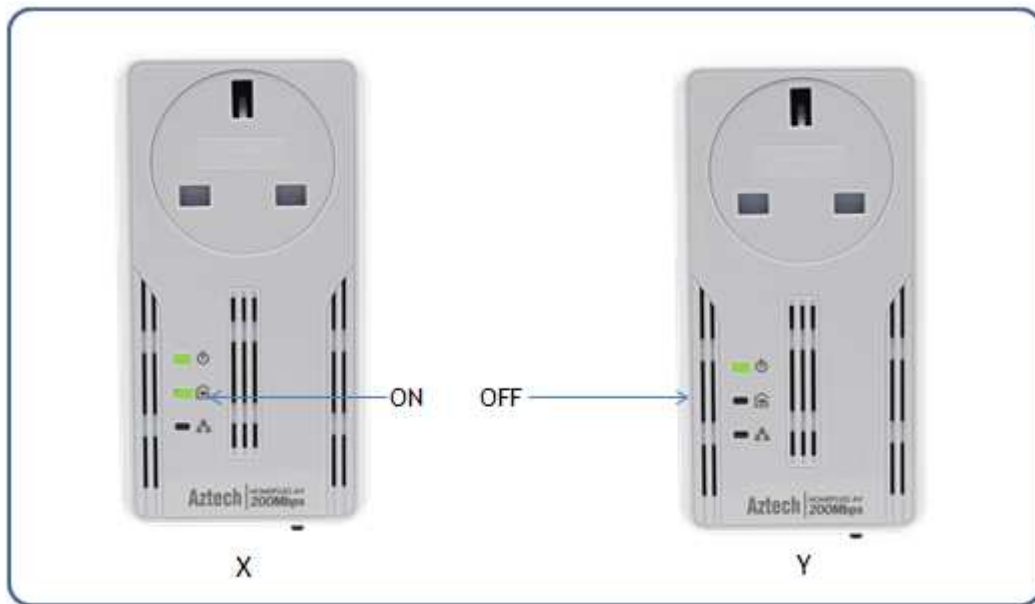


GBR Plug

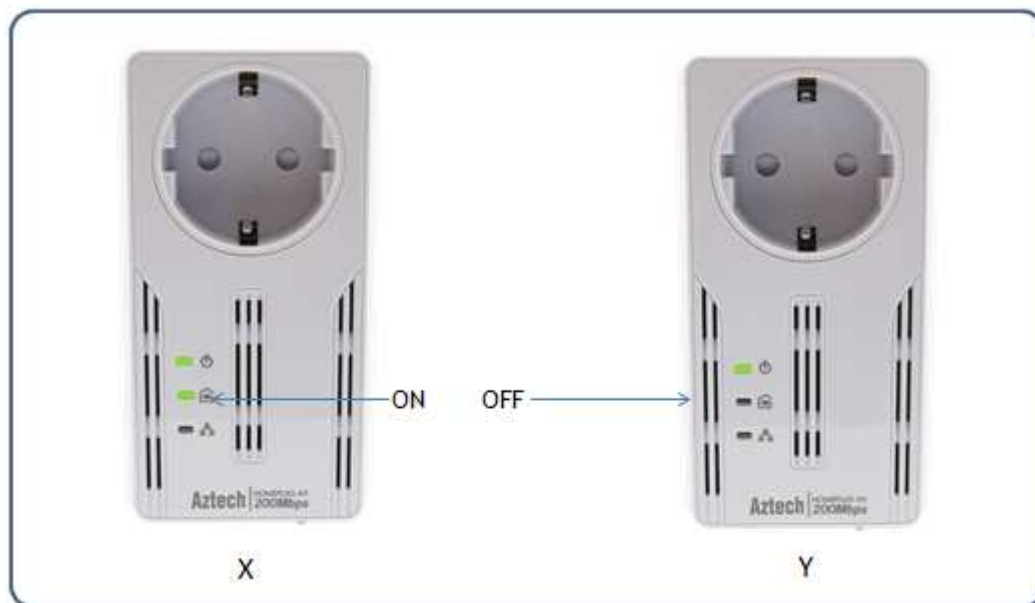


DEU Plug

When the Powerline Activity LED  on either HomePlug X or HomePlug Y is off, this means the pairing is not successful. In this case, you need to redo the entire process again.



GBR Plug



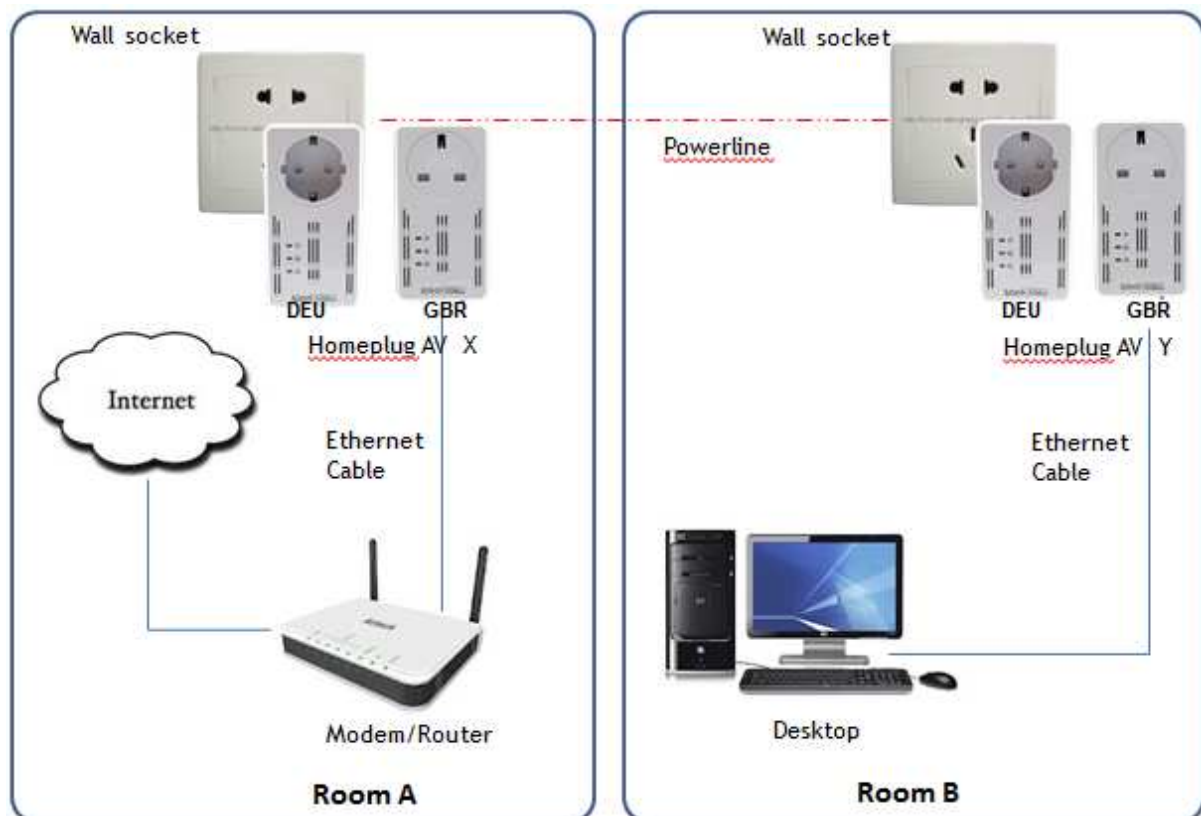
DEU Plug

Step 5

Unplug the HomePlug AVs and then connect them to your Ethernet devices using the Ethernet cables from the product package. After connecting the Ethernet cable, plug the HomePlugs directly to a wall outlet.

An Ethernet-enabled device can be a router, computer, hub, gaming console, IP phone, network printer, or IP TV set-top box.

Note: HomePlug AVs work best when connected directly to a wall socket. Avoid plugging it to a power strip or power extension. Other electrical devices in the power strip produce electrical noise that may affect the performance of the HomePlug.



Joining an Existing Secured HomePlug AV Network

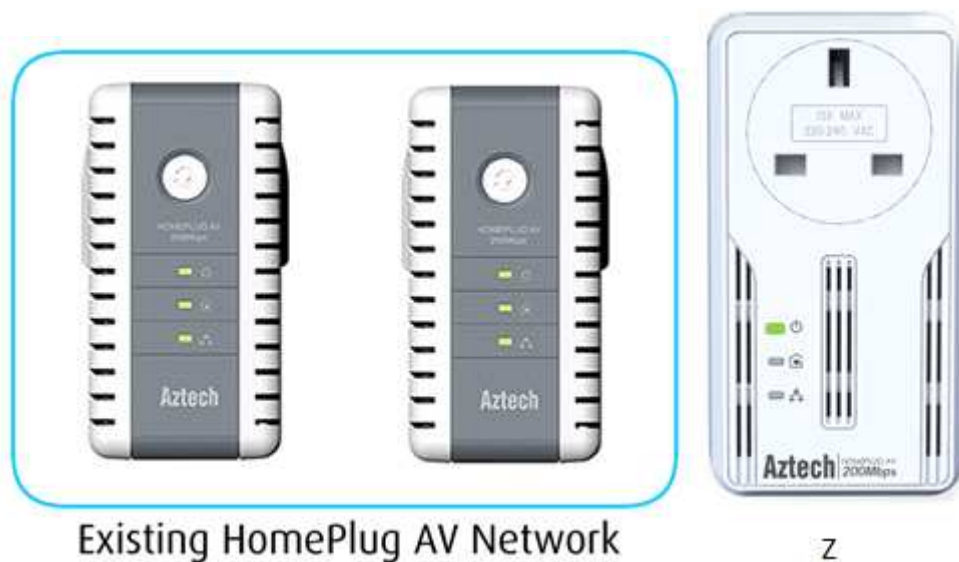
To enable a new device to join an existing network, Simple Connect will copy the Private Network Name of the existing network to the new HomePlug AV. If you pressed Simple Connect from multiple HomePlug AVs, only the signal from the first two devices will be processed.

To join an existing Secured HomePlug AV network using Simple Connect:


Step 1

Plug HomePlug AV Z beside one of your existing HomePlug AV device. Make sure you can easily observe the LED behavior.

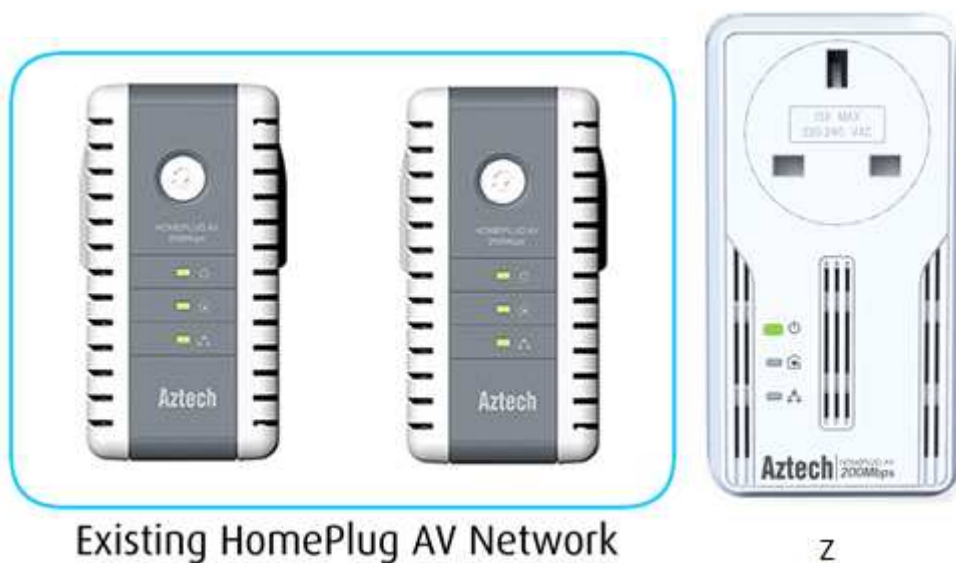
Upon connection, HomePlug Z's LEDs will blink simultaneously and then the Power LED lights ON steadily. Ethernet LED will be ON if there is an ethernet link.





Step 2

Press Simple Connect for 10 seconds from a HomePlug AV Z. After you release the button, All LED will blink. The Power LED  will stay ON.

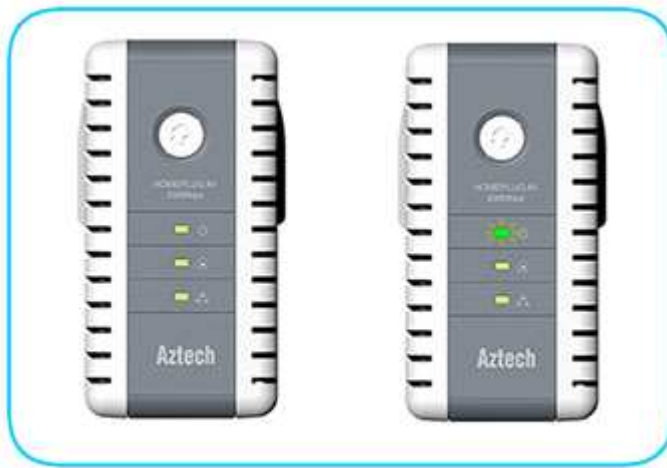
Note: If the all LED  did not blink, press Simple Connect again.



Step 3

Press Simple Connect Button for two seconds on the existing HomePlug AV device. After you release the button, the Power LED  will continuously blink. If the Power LED  did not blink, press Simple Connect again for two seconds.

Make sure to press Simple Connect Button again on the HomePlug AV Z within two minutes after you press Simple Connect from the existing network.





Existing HomePlug AV Network




Z

Step 4

To confirm if the connection was established, check the LEDs. The Power LEDs  and the Powerline Activity LEDs  on all HomePlugs are on.



Network XYZ

If the Powerline Activity LED  on HomePlug Z is off, this means the pairing was not successful. You need to repeat the process again.



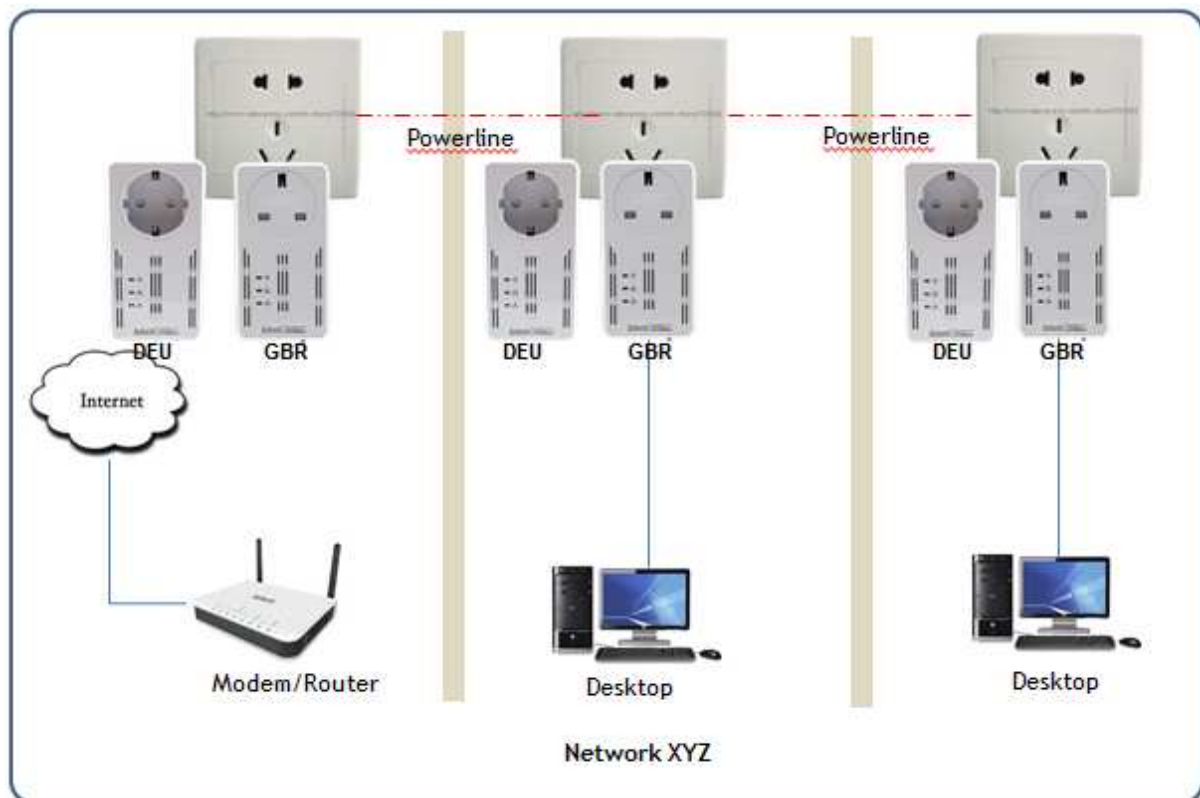
Existing HomePlug AV Network

Z


Step 5

Unplug HomePlug Z and then connect it to your Ethernet device using the Ethernet cables from the product package. After connecting the Ethernet cable, plug HomePlug Z directly to a wall outlet. An Ethernet-enabled device can be a router, computer, hub, gaming console, IP phone, network printer, or IP TV set-top box.

Note: HomePlug AVs work best when connected directly to a wall socket. Avoid plugging it to a power strip or power extension. The other electrical devices in the power strip create noise that may affect the performance of the HomePlug.



Determining Connection Rate

Each LED color of the Powerline Activity  represents a connection rating. The connection rating can only be calculated when the device is part of an existing network. The exact connection rate value can also be viewed using HomePlug AV Utility.



Good (Red)

Connection rate is less than 30 Mbps



Better (Amber)

Connection rate is between 30 to 80 Mbps



Best (Green)

Connection rate is more than 80 Mbps

Power Saving Mode



GBR Plug



DEU Plug

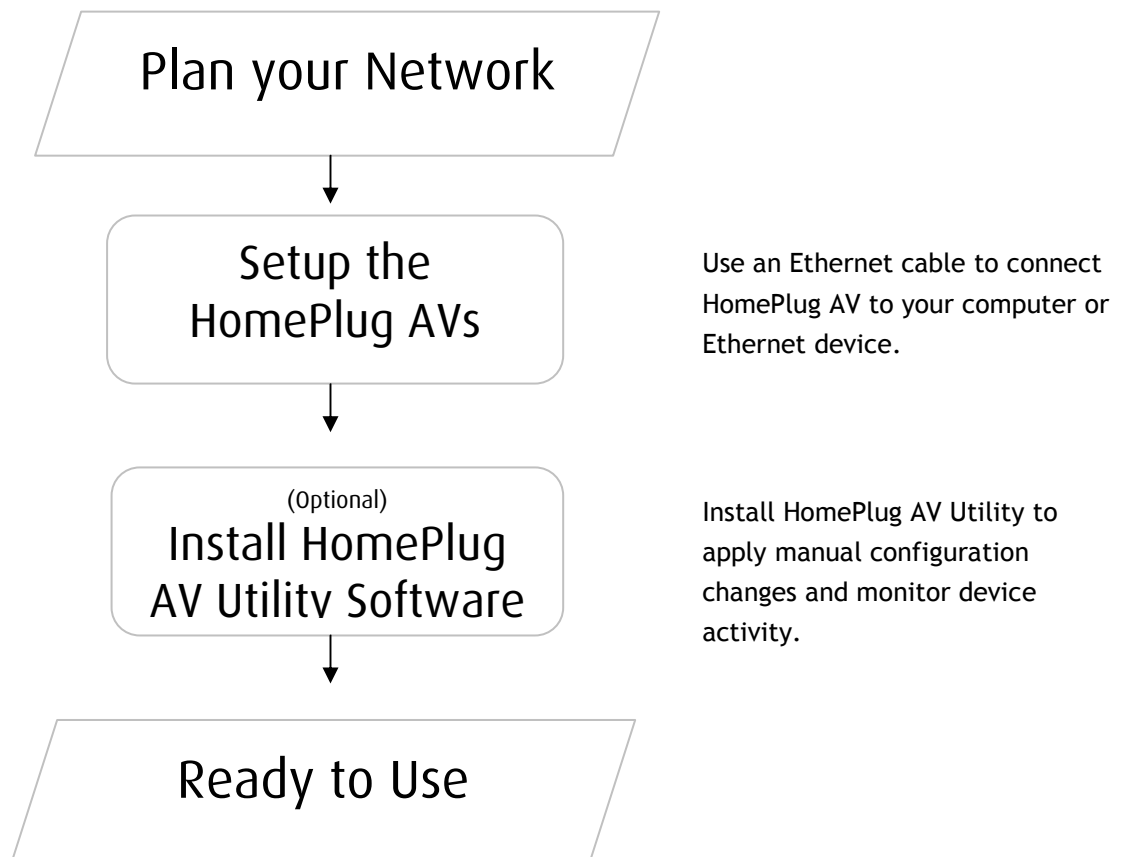
When Powerline Activity LED is turned off HomePlug AV is on a Power saving status.

Conditions for HomePlug AV to go on a Power saving mode:

- Will go on a power saving mode after 15mins when there is no data transmitted.
- The Powerline Activity LED is turned OFF.
- When connected to a PC or Laptop there should be no power on the network card when the computer is OFF.

Getting Started

Setting up the device is easy. The flowchart below provides an outline of the steps you need to complete the installation. There are brief descriptions beside each step to help you along. Detailed instructions are provided in the subsequent pages.

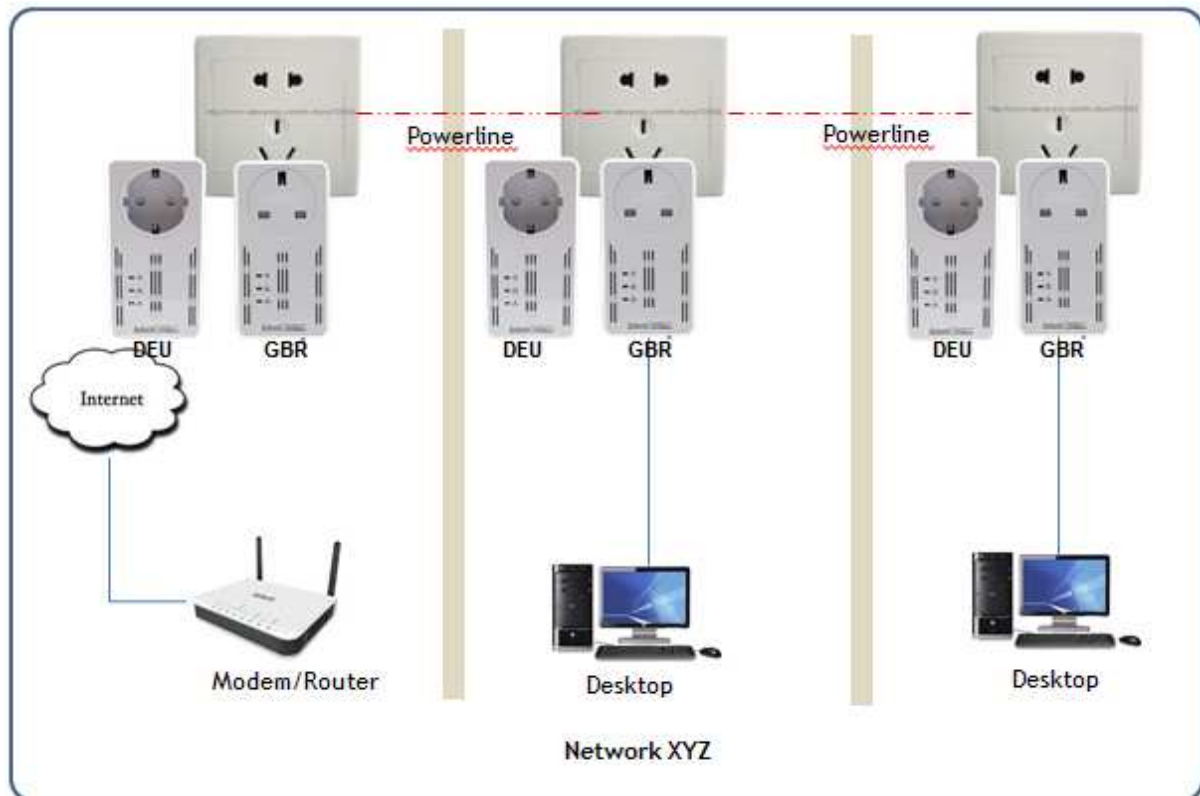


Plan Your Network

Here are ideas on how you can plan your HomePlug AV network.

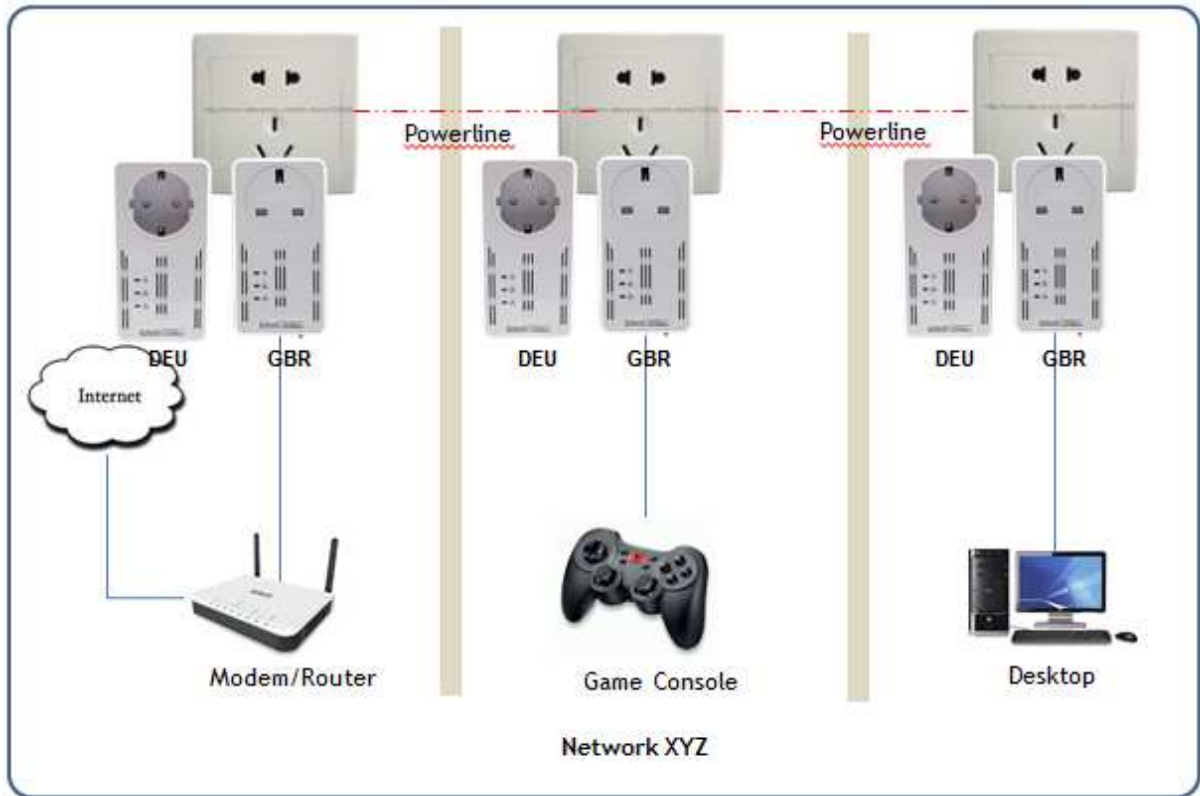
Local Network

Share ultra fast Internet connection with any computer wherever it is in the house.



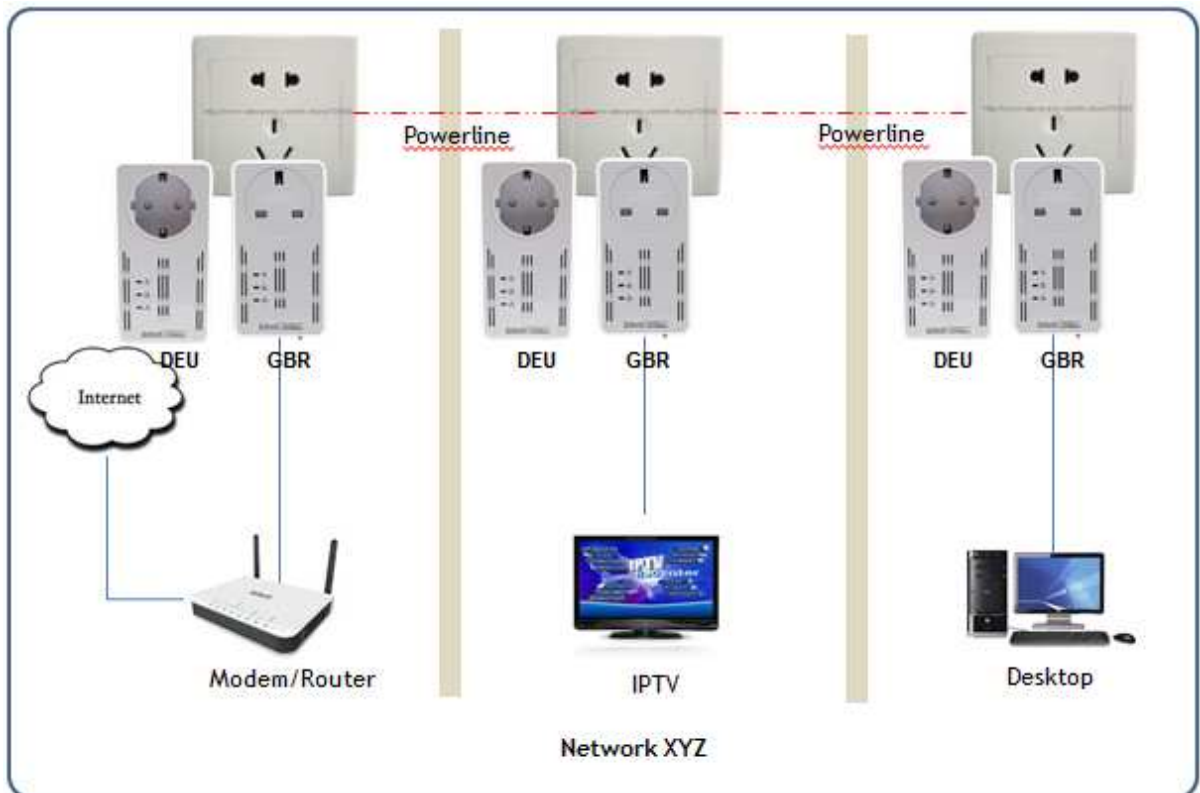
Gaming Network

Connect your gaming console to the Internet and compete with other online players.



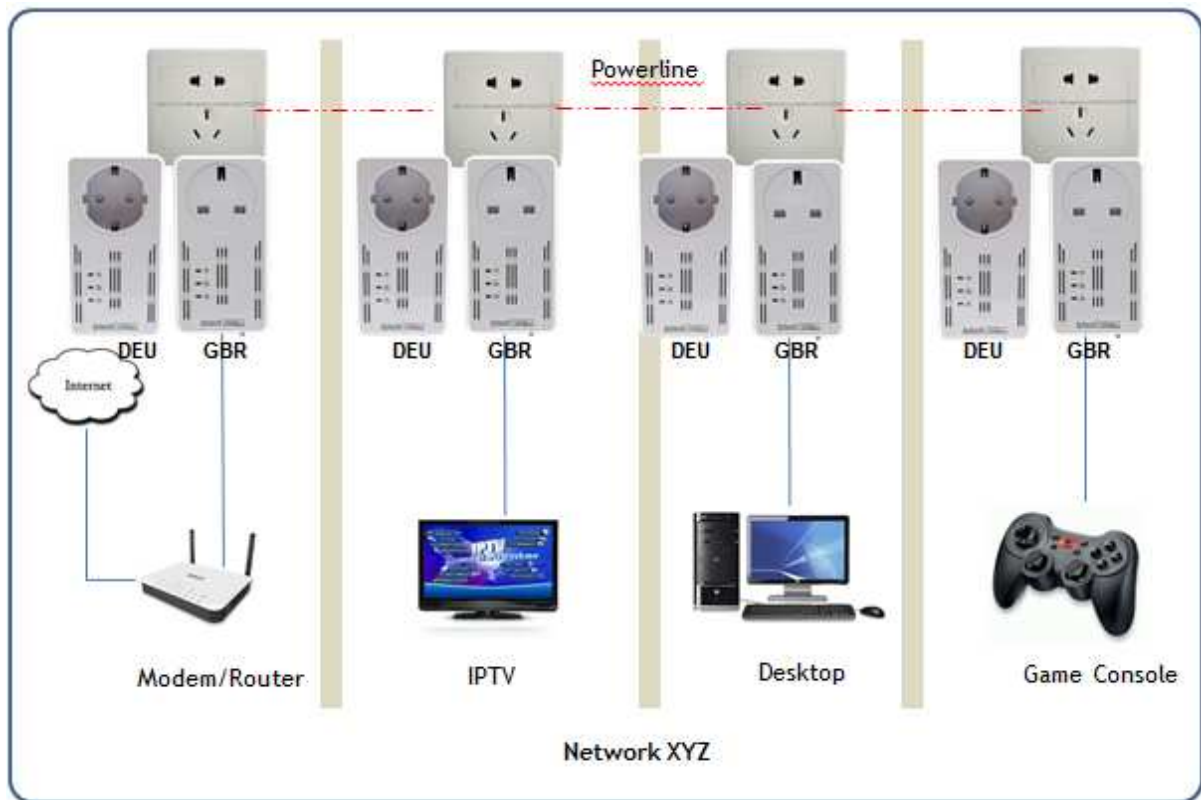
Entertainment Network

Experience IP TV streaming into your home entertainment system.



Media Network

Realize your high tech lifestyle by converging your IP devices into a single network.



Setup the HomePlug AVs

For Twin Pack

HomePlug AVs from a Twin Pack are preconfigured to have a common Private Network Name unique for that pair. All you need to do is connect the HomePlug AVs to an Ethernet device and then plug it to a wall socket.

To setup a pair of HomePlug AVs:

1. Plug one end of the Ethernet cable to your Ethernet device and then connect the other end to HomePlug AV.
2. Connect the HomePlug AV to a wall socket.
3. Plug one end of the Ethernet cable to your other Ethernet device and then connect the other end to HomePlug AV.
4. Connect the HomePlug AV to a wall socket.

For Single Pack

A HomePlug AV from a single pack uses a random Private Network Name that prevents it from communicating with other HomePlug AVs. To add it into an existing network, you need to use either the Simple Connect button or the HomePlug AV Utility software to change the random Private Network Name to the Private Network Name being used by the existing HomePlug AV network.

To add a HomePlug AV to an existing network:

1. Plug one end of the Ethernet cable to your Ethernet device and then connect the other end to HomePlug AV.
2. Connect the HomePlug AV to a wall socket.
3. Add the new HomePlug AV by using either Simple Connect or the HomePlug AV Utility software. To use Simple Connect, please refer to [Joining an Existing HomePlug AV Network](#). To use HomePlug AV Utility, please refer to [Private Network Name](#).

About HomePlug AV Utility

HomePlug AV Utility is a software application that allows you to configure HomePlug AV. It is mainly used for changing the Private Network Name, detecting other HomePlug AV's in the network, and measuring the throughput of devices. Installation is straightforward and the user interface is easy to use.

Note: To use HomePlug AV Utility, you need a computer using a Windows operating system with the .NET Framework installed. If you do not have .NET installed, the HomePlug AV installer will install it for you.

Requirements

Your computer must meet the following requirements:

- Windows XP (32 and 64 bit), Vista (32 and 64 bit), Windows 8 (32 and 64 bit)
- 300 MHz Processor
- 128 Mb of RAM
- .NET Framework
- Windows Installer 3.1 for Windows XP (32 and 64 bit)
- Network Interface Card
- CD-ROM
- 128 Mb of free hard disk space

Installation

To install HomePlug AV Utility:

1. Insert the Resource CD that comes with HomePlug AV into the CD-ROM drive.
2. Click the Start button, and then click Run.
3. In the Run dialog box, type D:\Setup.exe (where D: is your CD-ROM drive), and then click OK.
4. Follow the instructions on the installation wizard.

Two applications will be installed in your computer - HomePlug AV Utility will be installed first followed by .NET Framework. The installer detects any version of .NET Framework in your computer. If .NET Framework is not installed, a dialog box opens to ask if you would like to install .NET Framework. Click Yes. The .NET Framework will not be installed if the required version is already in your computer.

| Operating System | .NET Framework version to be installed |
|----------------------------|---|
| XP /Vista/Windows 7 32-bit | .NET Framework 3.5 SP 1 32-bit |
| XP /Vista/Windows 7 64-bit | .NET Framework 3.5 SP 1 64-bit |

Opening HomePlug AV Utility

Two ways to open HomePlug AV Utility:

- Right-click the HomePlug AV Utility desktop shortcut and then select Open.
- Click the Start button, click Programs, click HomePlug AV, click HomePlug AV Ethernet Adapter, and then click HomePlug AV Utility.

The User Interface

The HomePlug AV Utility user interface is divided into tabs. These tabs include:

- Home
- Private Network Name
- Devices
- Firmware Upgrade

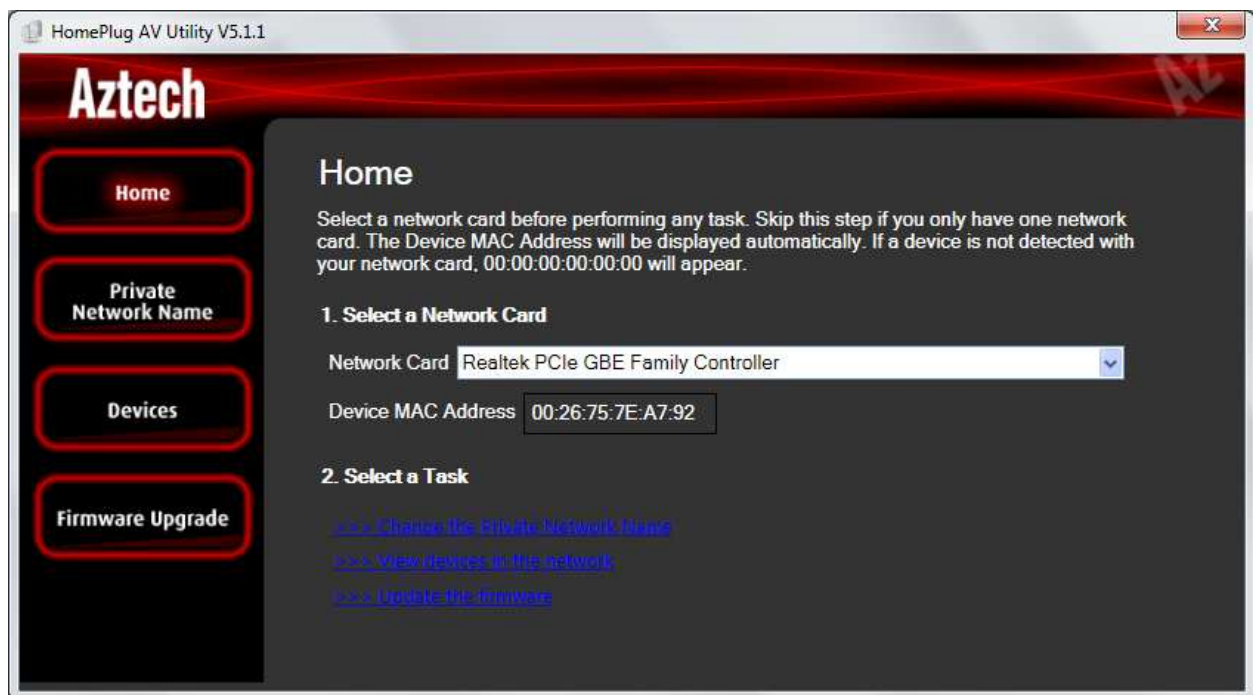
Home

Home provides a list of all the possible tasks you can perform in the HomePlug AV Utility. To start a task, you first need to select the network card connected to your HomePlug AV. This is most helpful when you have more than one network card in your computer. When you select a network card, the MAC Address of the HomePlug AV connected to your computer appears. If there is no HomePlug AV connected to your computer, no MAC address will appear.

After selecting the network card, there are three possible tasks you can perform. These tasks include:

- Change the Private Network Name
- View devices in the network
- Upgrade the firmware

When you select any task, you will be forwarded to the tab for the selected task.

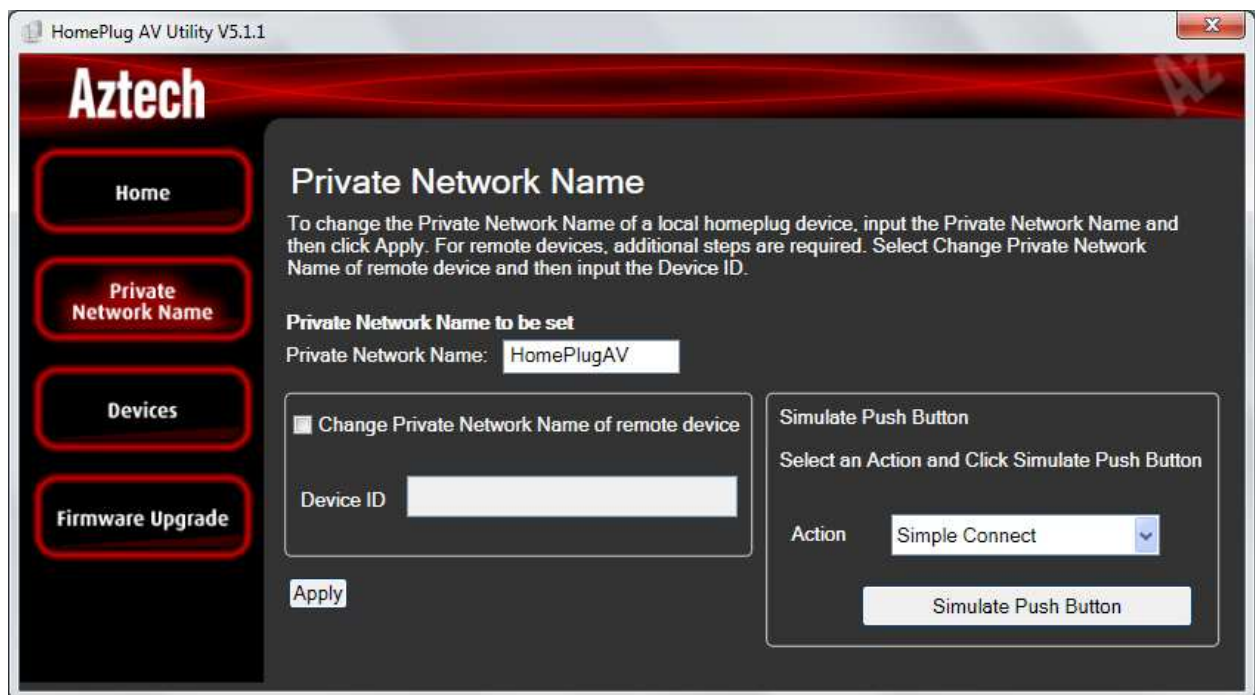


Home

Private Network Name

Private Network Name provides the function to manually change the Private Network Name of local and remote HomePlug AVs. A Private Network Name is a string of 8 to 64 characters enables HomePlug AV devices to communicate with each other.

If you intend to create multiple networks, you can assign different Private Network Names among your devices. You have to, however, make sure that at least two HomePlug AVs have a similar Private Network Name. A HomePlug AV that uses a unique or random Private Network Name will not be able to communicate with other devices.



Private Network Name

Note: In case you cannot connect into the network after changing the Private Network Name, please power cycle the device. To power cycle, disconnect and then reconnect HomePlug AV from the power outlet.

Local Private Network Name

Local Private Network Name refers to the Private Network Name of the HomePlug AV that is directly connected to the computer where you use HomePlug AV Utility.

To change the local Private Network Name:

1. Open HomePlug AV Utility.
2. Click Private Network Name.
3. Type the new Private Network Name. This field is case sensitive. It accepts 8 to 64 alphanumeric characters including punctuation marks but no spaces.
4. Click Apply. When the process is complete, the message Settings Applied appears.

Remote Private Network Name

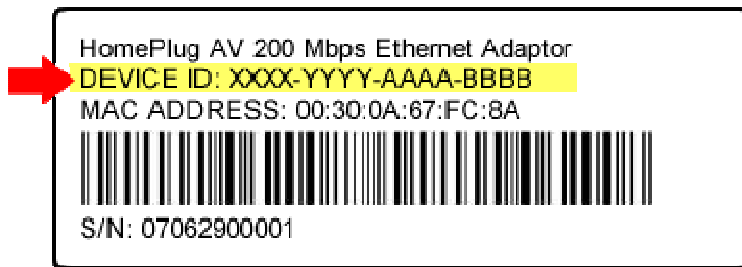
Without leaving your computer, you can change the Private Network Name of remote HomePlug AV devices, provided they are using the same Private Network Name as your local HomePlug AV. You cannot change the Private Network Name of remote devices that is not currently networked with your local HomePlug AV.

Note: When changing the Private Network Name of remote devices, you will need the Device ID that appears on the label pasted on the device. It will be more helpful if you list down the Device ID of all your HomePlug AVs to enable you to remotely change their settings using the HomePlug AV Utility software.

To change the Private Network Name of a remote HomePlug AV:

1. Open HomePlug AV Utility.
2. Click Private Network Name.
3. Type the new Private Network Name. This field is case sensitive. It accepts 8 to 64 alphanumeric characters including punctuation marks but no spaces.
4. Select Change Private Network Name of remote device.

5. Type the Device ID of the remote device. The Device ID can be found on the label pasted on the device.



6. Click Apply. When the process is complete, the message Settings Applied appears.

After changing the Private Network Name of the remote HomePlug AV, it will no longer be able to communicate with your local HomePlug AV, unless you use a similar Private Network Name for your local HomePlug AV.

Simulate Simple Connect Button

Simulate Simple Connect Button allows you to apply functionalities without manually pressing the Simple Connect button on a HomePlug AV device. However, this only works on local devices.

Simple Connect Select to search and pair with another device, or search and join an existing HomePlug AV network.

NMK Randomize Select to reset to a random Private Network Name. A HomePlug AV using a random Private Network Name will be disconnected from the HomePlug network and will not be able to communicate with other devices until it forms a new network or joins an existing network.

AVLN Status Displays the HomePlug AV Logical Network membership status number.

Note: The Simulate Simple Connect Button functions from HomePlug AV Utility can be used for HomePlug AV versions with or without the Simple Connect button on the device.

To simulate a Simple Connect function:

1. Connect HomePlug AV to your computer.
2. Select a Simulate Simple Connect Button action:
 - a. Simple Connect
 - b. PNN Randomize
 - c. AVLN Status
3. Click Simulate Button Push.

Devices

Devices displays information about remote HomePlug AV's detected in the network. Only HomePlug AVs using the same Private Network Name as the local HomePlug AV will appear in the Remote Devices list.



Devices

Devices displays the following information:

TEI Displays the Terminal Equipment Identifier.

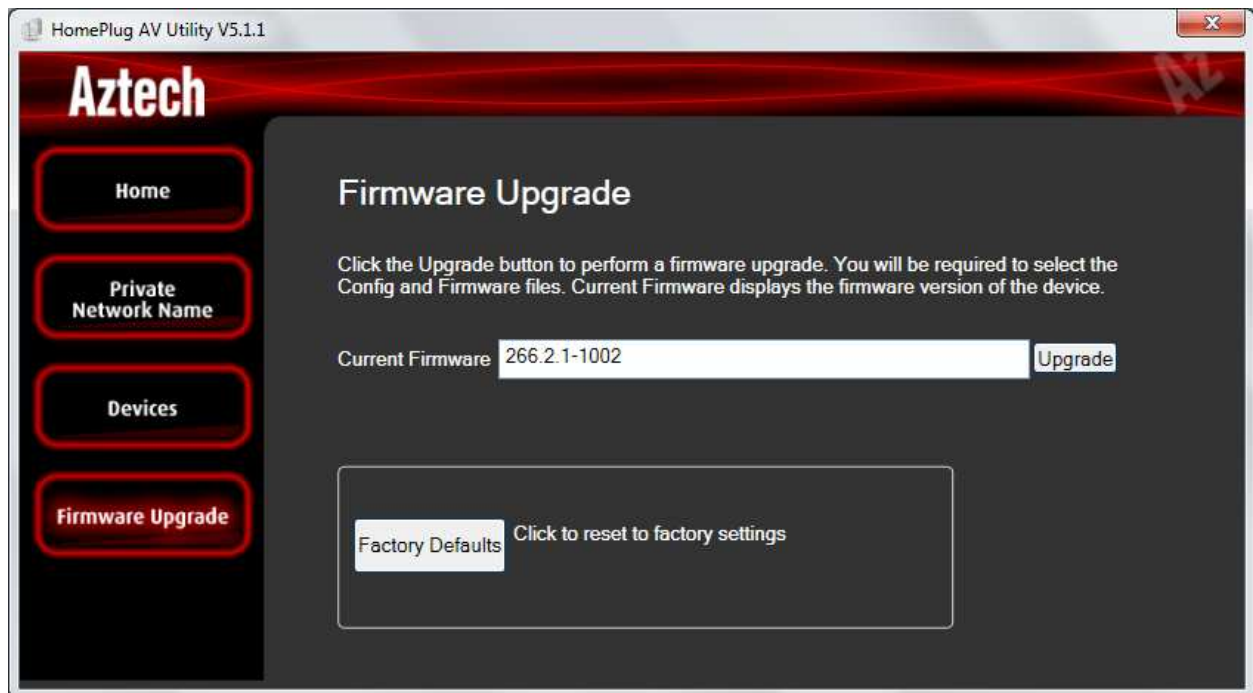
Device MAC address Displays the HomePlug AV MAC Address.

Bridge MAC Address Displays the MAC Address of the Ethernet network adapter connected to the HomePlug AV.

Connection Rate Displays the Transmit and Receive connection rates.

Firmware Upgrade

Use Firmware Upgrade to upgrade firmware of HomePlug AV. After upgrading the firmware, HomePlug AV will still retain the same Private Network Name and MAC address settings. Before you proceed with the upgrade, you need to have both the configuration file (PIB extension) and the firmware file (NVM extension). You can download upgrade files from the product's Web site.



Firmware Upgrade

To upgrade the firmware of a HomePlug AV:

1. Connect HomePlug AV to the computer where you are using HomePlug AV Utility.
2. Open HomePlug AV Utility.
3. Click Firmware Upgrade.
4. Click Browse to select the location of the configuration and firmware files. The configuration file has a PIB extension while the firmware file has an NVM extension. After you select the location of the configuration and firmware files, the upgrade will immediately start.

To reset to factory default:

1. Connect HomePlug AV to the computer where you are using HomePlug AV Utility.
2. Open HomePlug AV Utility.
3. Click Factory Default.

Note: You can also perform a reset to the factory default when you press the Simple Connect button on the device for 5 seconds.

Appendix

FCC Statement

This equipment has been tested and complies with the specifications 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 according to 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 is found 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 or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

European Regulations

The product has been designed, tested and manufactured according to the European R&TTE directive 1999/5/EC.

CE 0682

Safety Warnings

For your safety, be sure to read and follow all warning notices and instructions.

- Do not open the device. Opening or removing the device cover can expose you to dangerous high voltage points or other risks. Only qualified service personnel can service the device. Please contact your vendor for further information.
- Do not use your device during a thunderstorm. There may be a risk of electric shock brought about by lightning.
- Do not expose your device to dust or corrosive liquids.
- Do not use this product near water sources.
- Make sure to connect the cables to the correct ports.
- Do not obstruct the ventilation slots on the device.
- Only a BS1363 plug or IEC 60884-2-5 plug can be plugged into the socket-outlet.