



ALL1681211

**1200Mbit HomePlugV2 MIMO
mit WiFi IEEE 802.11ac**



USER MANUAL

DEFAULT VALUES

IP:	192.168.1.2
User name:	admin
Password:	admin



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.

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About the Device

A common household problem nowadays focuses on one thing: *Internet Access availability*. Bandwidth hungry devices often placed in separate rooms such as HDTVs, game consoles, computers, and IP Set top boxes, demand unhindered high-quality data transmissions to reach their optimum performance. These are often resolved by using drastic lengths of cables which are often considered impractical when considering today's innovation. ALL1681211, ALLNET's fastest and reliable 1200Mbps SmartLink HomePlugAV2 Dual Band Wireless-AC Extender device, uniquely answers to this need. It provides not only a lot of great networking benefits but is also a device which does not involve complex configurations to setup, is easy to use, and at the same time energy efficient as well.

Unlike other HomePlugAV technologies, the ALL1681211 provides two ways of having internet access : (1) Ethernet connectivity and (2) Wi-Fi. These two internet access options provided by the ALL1681211 combined with the genuine portability of this device's design, allows you to have internet access ANYWHERE in the house in all of your devices (may it be wired or wireless) as long as a power outlet is nearby. Two (2) Gigabit ports were made for your Ethernet devices such as computers, game consoles and other Ethernet cable reliant devices, reliably ensuring that no Ethernet device in your house would go without any high-speed internet connection. Wireless Dual Band connectivity, supported by the 802.11ac wireless standard, is then provided for your wireless devices with speeds of up to 300Mbps for the 2.4GHz and up to 867Mbps for the 5.0GHz frequency band to ensure that you have full options in maximizing your wireless connectivity.

ALLNET ALL1681211 is a HomePlug AV2 compliant device specifically made to meet bandwidth hungry multimedia devices within your home, allowing it to become a great partner when doing HD A/V streaming, online gaming, and other internet activities that are commonly known for high bandwidth consumption. HomePlug AV2 devices are all backward compatible to other HomePlug AV technologies allowing it to work with previous HomePlug AV innovations. It also utilizes MIMO and Beamforming Technology, which unlike other HomePlug AV compliant devices, effectively uses the three wires (live, neutral, and ground) present in your home's wall wiring, to transmit

and receive data while constantly ensuring that it would always be at its peak performance even at poor channels. With a 1200Mbps data transfer over the powerline combined with the MIMO and Beamforming Technology, customers will get to enjoy more of their powerline network.


How Does It Work?

HomePlug AV2 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 1Gbps, HomePlug AV2 can reliably handle high requirement applications like broadband Internet, high definition video streaming, and Voice over IP.

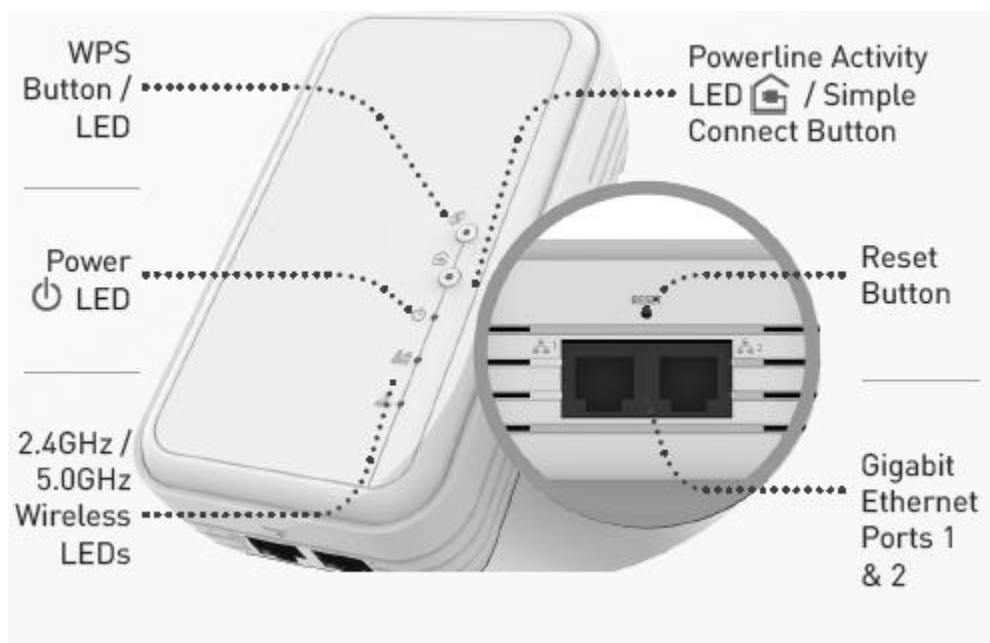
HomePlug AV2 converts digital signals to a complex analog signal that traverses along the electrical wires. When receiving the analog signal, HomePlug AV2 converts the analog signal back to digital. To make the signal secured, a 128-bit AES encryption is applied.

A HomePlug AV2 device can only communicate with other HomePlug AV2 devices that use the same Private Network Name. The Private Network Name can be easily changed in two ways. (1) is through the HomePlug AV2 Utility software. It can be changed manually using the HomePlug AV2 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; (2) Is through the Simple Connect button. The Simple Connect button 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 AV2 network.

Note: HomePlug AV2 devices are effective when used in pairs. The Twin packs are already configured to use a common Private Network Name unique for that pair and are ready to use without involving any complex configurations. The HomePlug AV2 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 AV2 network.



When a HomePlug AV2 communicates with another device, the Powerline Activity LED  color will indicate the status of the connection rate it provides: Red means below 30 Mbps; Amber means 30 to 120 Mbps; and Green means more than 120 Mbps.

Device Design



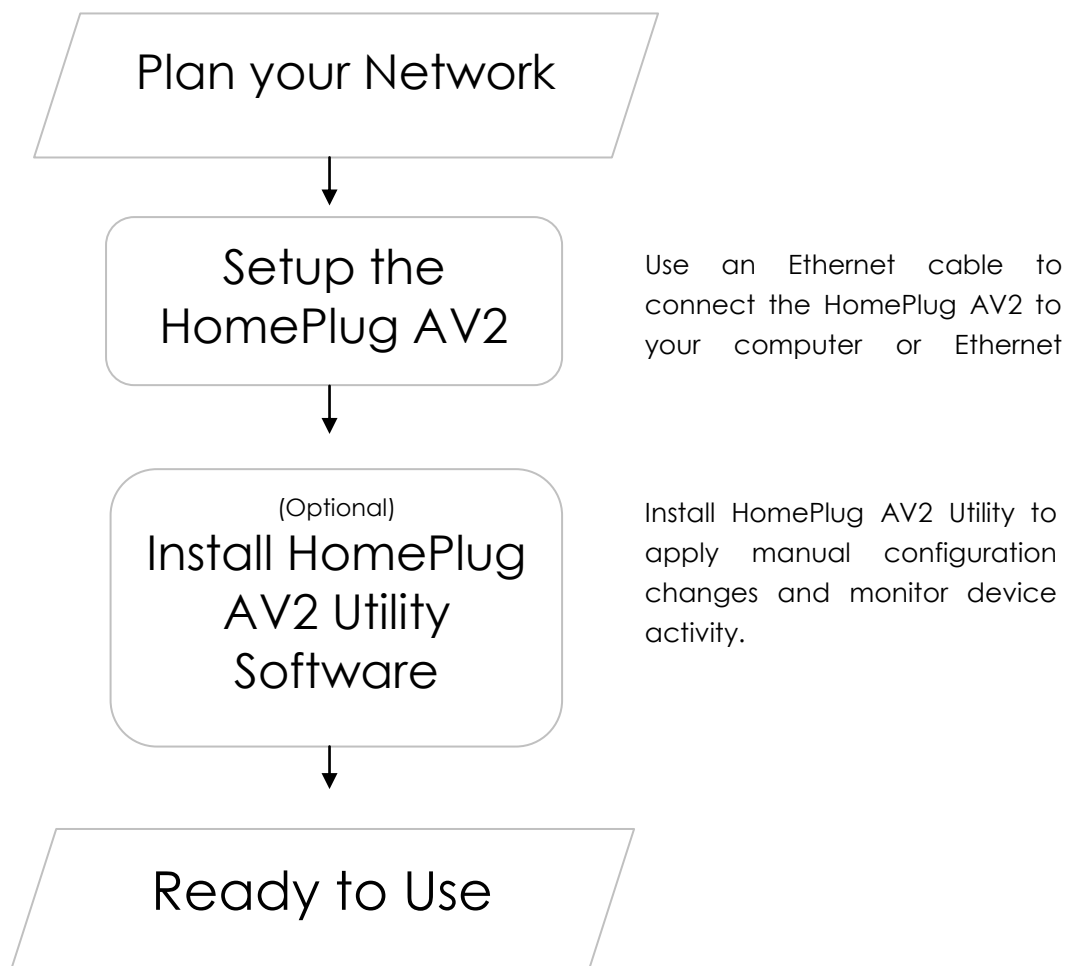
Label	Description/ Function
Ethernet Port	Accepts either cross or straight Ethernet cable.
Reset Button	Press for 2-4 seconds then release button to reset to the factory default settings. When you reset to the factory default, all your configuration changes will be removed.
Simple Connect Button	When Simple Connect is pressed for 10 seconds, it will randomize the Private Network Name. Press 2 seconds to join or add to another network.

Label	Status	Description/ Function
Power LED	OFF	<ul style="list-style-type: none"> No power.
	ON	<ul style="list-style-type: none"> HomePlug AV2 is on a Power Saving Status if the Power LED is blinking slowly. When Simple Connect is pressed for 10 seconds, this LED will turn OFF and turn ON to confirm the Private Network Name reset. After Simple Connect is pressed for 2 seconds, this LED will blink to confirm the button press. If Reset Button is pressed for 3 seconds, this LED will turn OFF and turn ON.

Powerline Activity 	OFF	Device is not connected to a HomePlug AV2 network.
	ON	<ul style="list-style-type: none"> When Simple Connect is pressed for 10 seconds, this LED will turn OFF to confirm the Private Network Name reset. This LED is steady in color when the device is part of a HomePlug AV2 network. The LED colors represent the connection rate within the HomePlug AV2 network whether it is good (red), better (amber), or best (green).
Ethernet Activity LEDs 1 & 2 	OFF	An Ethernet device is connected to the corresponding port.
	ON	<ul style="list-style-type: none"> The corresponding LED is steady when an Ethernet device is connected. When Simple Connect is pressed for 10 seconds, this LED will turn OFF and turn ON to confirm the Private Network Name reset. (Ethernet is connected) The LED flashes to indicate Ethernet activity.

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.



Planning Your Network

Before moving ahead to setup your network, it is a good idea to draw out a network diagram to help identify your network devices and plan out how to connect these devices.

Local Network

Share ultrafast 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.

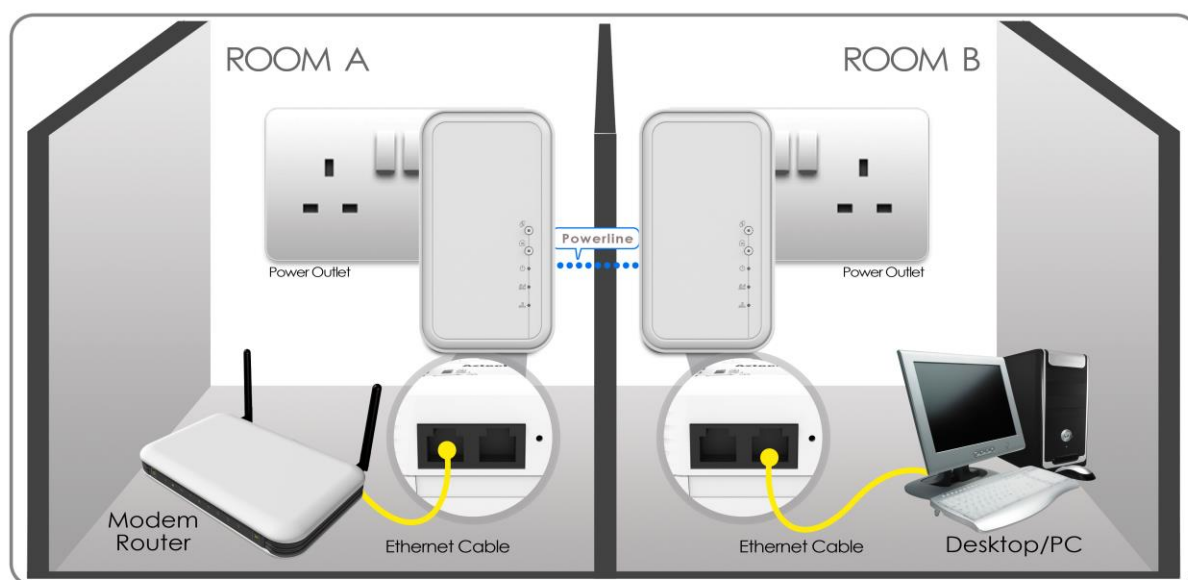
Media Network

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

Pairing the Device

Your HomePlug AV2 devices by default are preconfigured to have a common Private Network Name. Setting up your HomePlug AV2 network is as easy as 1,2 and 3.

1. It is advisable that you plug in your HomePlug AV2 devices side by side to easily observe the LED behaviors of each HomePlug AV2. Wait until the Power and PL-ACT LED turns ON to confirm that the connection has been established



2. In ROOM A plug in your HomePlug AV2 into the wall socket then connect it to your modem router's Ethernet port using an Ethernet cable.
3. In ROOM B plug in your HomePlug AV2 into the wall socket then connect it to your computer's Ethernet Port using an Ethernet cable. Your HomePlug AV2 is now ready to use.

Resetting the Private Network Name

Simple Connect allows you to reset the HomePlug AV2's Private Network Name to a random key. When a HomePlug AV2 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 RESET on the device for 3 seconds.

To reset the Private Network Name using Simple Connect:

Step 1

On HomePlug X, Press the Simple Connect button for 10 seconds. Power LED and Ethernet LED will turn OFF and turn ON (Ethernet is connected). The Powerline Activity LED will switch OFF on both units.

Step 2

On the second adapter (HomePlug Y), press the Simple Connect button for 2 seconds and do it on the first adapter to pair the devices. The Power LED will blink to indicate that the button is pressed.

Creating a Secured HomePlug AV2 Network

To create a HomePlug AV2 network, you need at least two HomePlug AV2 devices using random Private Network Names. When you press Simple Connect for 10 seconds on both devices, a common Private Network Name will be automatically generated to enable them to communicate with each other.

Note: New HomePlug AV2 can already communicate with each other once out of the box and plugged. 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 AV2 network using Simple Connect:



Step 1

Plug your HomePlug AV2s side by side where you can easily observe the LED behavior.



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

Press the Simple Connect button of HomePlug AV2 X for 10 seconds. Powerline Activity LED will turn OFF. Power LED will Turn OFF and ON indicating that the Private Network Name has been randomized.

Step 2

Press the Simple Connect button for 2 seconds on HomePlug Y. After you release the button, the Power LED  will blink. If the Power LED  did not blink, press Simple Connect again for two seconds.



Step 3

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

Pairing between two devices are only given two minutes upon pressing the Simple Connect button for two seconds on HomePlug Y. After pressing Simple Connect on HomePlug Y, make sure to press Simple Connect on HomePlug X within two minutes to

ensure a successful connection, otherwise repeat steps 2 and 3 until the LEDs of both devices switch OFF and on twice, indicating that they are paired with one another.

Step 4

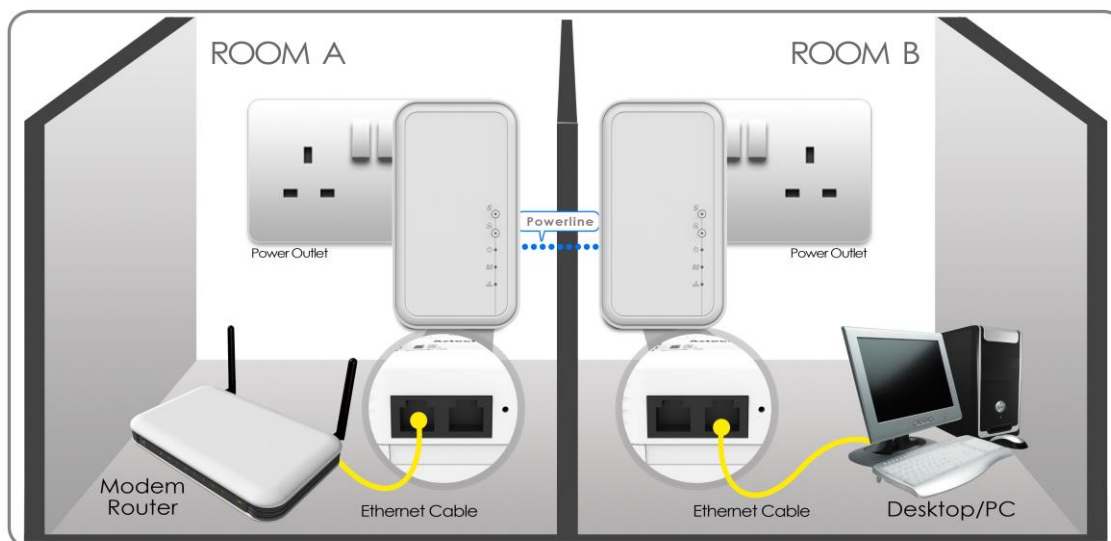
To confirm if the connection was established, check the LEDs. The Power LEDs  and the Powerline Activity LEDs  on both HomePlugs are ON.

Step 5

Unplug the HomePlug AV2s 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 AV2s work best when connected directly to a wall socket. It is suggested to avoid plugging a HomePlug AV2 to a power strip or power extension as much as possible. Other electrical devices plugged in the power strip produce electrical noise that may affect the overall performance of the HomePlug.



Joining an Existing Secured HomePlug AV2 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 AV2. You only have to pair the new HomePlug AV2 device to any of the devices within the existing HomePlug AV2 Network by pressing the Simple connect. If you pressed Simple Connect from multiple HomePlug AV2s, only the signal from the first two devices will be processed.

To join an existing Secured HomePlug AV2 network using Simple Connect:

Step 1

Plug HomePlug X (your new HomePlug) beside one of your existing HomePlug AV/AV2 devices. It is important to ensure that you can easily observe the LED behaviors of the HomePlugs in your home.



Upon connection, HomePlug X's LEDs will blink simultaneously and then the Power LED lights ON steadily. Ethernet LED will be ON if there are Ethernet devices connected to its Ethernet ports.

Step 2

Press Simple Connect for 10 seconds from HomePlug X. After you release the button, The Power LED and Ethernet LED would blink.

Note: If the Power and Ethernet LED did not blink, press Simple Connect again for 10 seconds.



Step 3


Press Simple Connect Button for two seconds on HomePlug Y (existing HomePlug). 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.

Step 4

Press Simple Connect Button again on the HomePlug X within two minutes after you press Simple Connect from the existing network.

Step 5

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


Note: If the Powerline Activity LED  on HomePlug X is off, this means the pairing was unsuccessful. You have to repeat steps 1 to 4 again until all LEDs in all HomePlug AV/AV2 devices are ON.

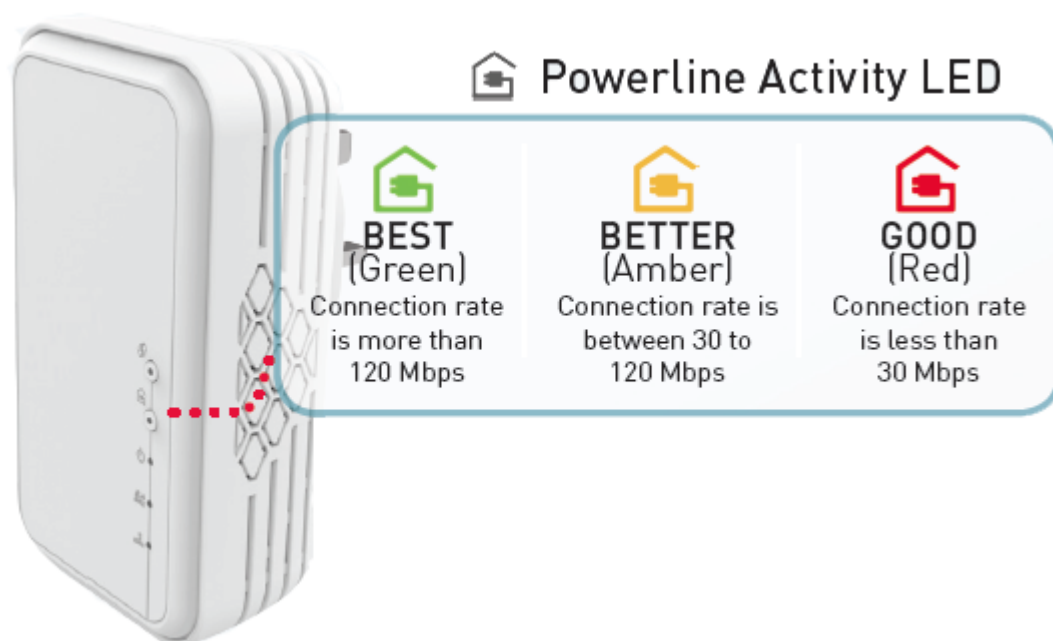
Step 6

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 AV2s work best when connected directly to a wall socket. It is suggested to avoid plugging a HomePlug AV2 to a power strip or power extension as much as possible. Other electrical devices in the power strip produce electrical noise that may affect the overall 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 by using the HomePlug AV2 Utility.



Note to Red LED: It is recommended to plug the device to the main wall-socket plug or a plug with the least electrical interference.

Power Saving Mode

After 15 minutes of Ethernet inactivity, HomePlug AV2 will enter Power Saving Mode. The Power LED will start BLINKING slowly to indicate its Power Saving Status.

Conditions of a HomePlug AV2 on a Power saving mode:

- Power LED is blinking slowly
- Powerline Activity LED and Ethernet LED are turned OFF.
- When connected to a PC or Laptop, if there is network card inactivity, HomePlug AV2 is also on a Power Saving mode.

Note: If another device is on a Power Saving Mode, the HomePlug AV2 Utility may detect the device but would be unable to configure its respective setting.

Setup the HomePlug AV2s

For Twin Pack

HomePlug AV2s from a Twin Pack are preconfigured to have a common Private Network Name unique for that pair. All you have to do is connect the HomePlug AV2s to an Ethernet device and then plug it to a wall socket.

To setup a pair of HomePlug AV2s:

1. Plug one end of the Ethernet cable to your Ethernet device and then connect the other end to HomePlug AV2.
2. Connect the HomePlug AV2 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 AV2.
4. Connect the HomePlug AV2 to a wall socket.

For Single Pack

A HomePlug AV2 from a single pack uses a random Private Network Name that prevents it from communicating with other HomePlug AV2s. To add it into an existing network, you need to use either the Simple Connect button or the HomePlug AV2 Utility software to change the random Private Network Name to the Private Network Name being used by the existing HomePlug AV2 network.

To add a HomePlug AV2 to an existing network:

1. Plug one end of the Ethernet cable to your Ethernet device and then connect the other end to your new HomePlug AV2.
2. Connect the HomePlug AV2 to a wall socket.
3. Add the new HomePlug AV2 by using either Simple Connect or the HomePlug AV2 Utility software. To use Simple Connect, please refer to [Joining an Existing HomePlug AV2 Network](#). To use the HomePlug AV Utility, please refer to [Private Network Name](#).

ALL1681211's Web User Interface

The ALL1681211's Web User Interface will allow you to configure your HomePlug AV device wirelessly. It is mainly used for Wireless Configuration, changing your ALL1681211's Private Network Name, detecting other HomePlug AV's within the network, and even of devices connected to your ALL1681211.

Note: To use the Web User Interface, you need a computer using a Windows or MAC operating system. The Web User Interface works with various web browsers such as Internet Explorer, Firefox, Safari, and Google Chrome.

Requirements

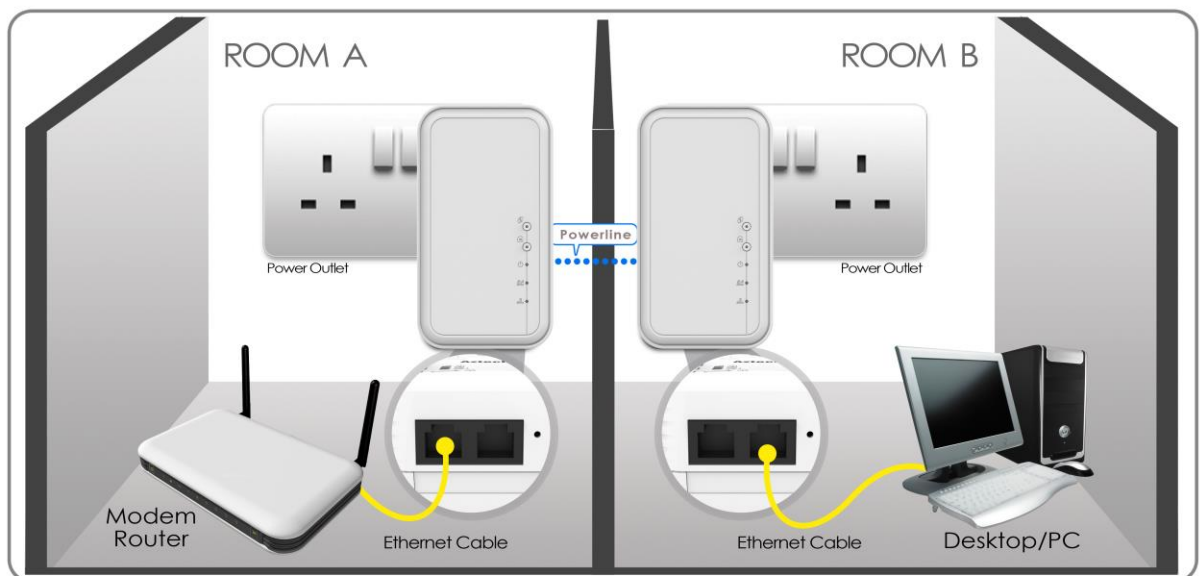
To ensure the smooth run of the Web User Interface, it is suggested that your computer must be able to meet the following requirements below:

- Windows XP (32 and 64 bit), Vista (32 and 64 bit), Windows 8 (32 and 64 bit), Windows 10 (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

Opening the User Interface

To access your ALL1681211's web user interface, simply do the following instructions below:

1. Ensure to follow the connection set up as stated below:



2. Connect an ethernet cable from the PC to any of the available Ethernet Ports of your ALL1681211.
3. On your computer, turn OFF any Wireless Adapter (if applicable).
4. Open and Launch a web browser. Type in **192.168.1.2** on the web browser's url link then hit enter key.
5. Enter **admin** in for Username and **admin** for Password. Then, click **Login**.
6. You will now see the user interface.

Another way to access your ALL1681211's web user interface is to follow the steps below:

1. Open a browser.
2. If you are connected to the computer, you have to set a static IP address first. For help on how to manually set your IP address, please refer to **Configuring TCP/IP** (below).
3. Enter the IP Address of the HomePlug and then press Enter.
 - If the HomePlug is connected with the computer, use **192.168.1.2** (default).
Enter the IP Address you used if you changed the default.
4. Enter **admin** in for Username and **admin** for Password. Then, click **Login**.

Configuring TCP/IP

Here are instructions on how to manually configure TCP/IP on a Windows operating system. You need to set the TCP/IP settings manually to access the Web User Interface and to allow your computer and HomePlug Wireless Adapter to communicate with each other.

To set the TCP/IPv4 properties:

1. Select **Start > Run**. This opens the Run dialog box.
2. Enter **control ncpa.cpl** and then click **OK**. This opens **Network Connections**.
3. Right-click **the connection that you want to configure** and then select **Properties**.
4. On the **General** tab, in **This connection uses the following items**, click **Internet Protocol Version 4 (TCP/IPv4)**, and then click **Properties**.
5. Click **Use the following IP address**.
6. In the **IP Address**, type the IP address, you can enter any IP address between 192.168.1.3 to 192.168.1.254 .
7. Click **Subnet mask**. When you click the field for Subnet mask, 255.255.255.0 automatically appears.
8. Click **OK** to close the **Internet Protocol Version 4 (TCP/IPv4)** dialog box.
9. Click **OK** to close the **Local Area Connection Properties** dialog box.

To set the TCP/IPv6 properties:

1. Select **Start > Run**. This opens the Run dialog box.
2. Enter **control ncpa.cpl** and then click **OK**. This opens **Network Connections**.
3. Right-click **the connection that you want to configure** and then select **Properties**.
4. On a LAN, wireless, VPN, or dial-up connection, on the **Networking** tab, in **This connection uses the following items**, click **Internet Protocol Version 6 (TCP/IPv6)**, and then click **Properties**.

5. Click **Use the following IPv6 address**.
6. In the **IPv6 Address**, type the IP address, you can enter any IP address between 192.168.1.3 to 192.168.1.254 .
7. Click **Subnet mask**. When you click the field for Subnet mask, 255.255.255.0 automatically appears.
8. Click **OK** to close the **Internet Protocol Version 6 (TCP/IPv6)** dialog box.
9. Click **OK** to close the **Local Area Connection Properties** dialog box.

The Web User Interface

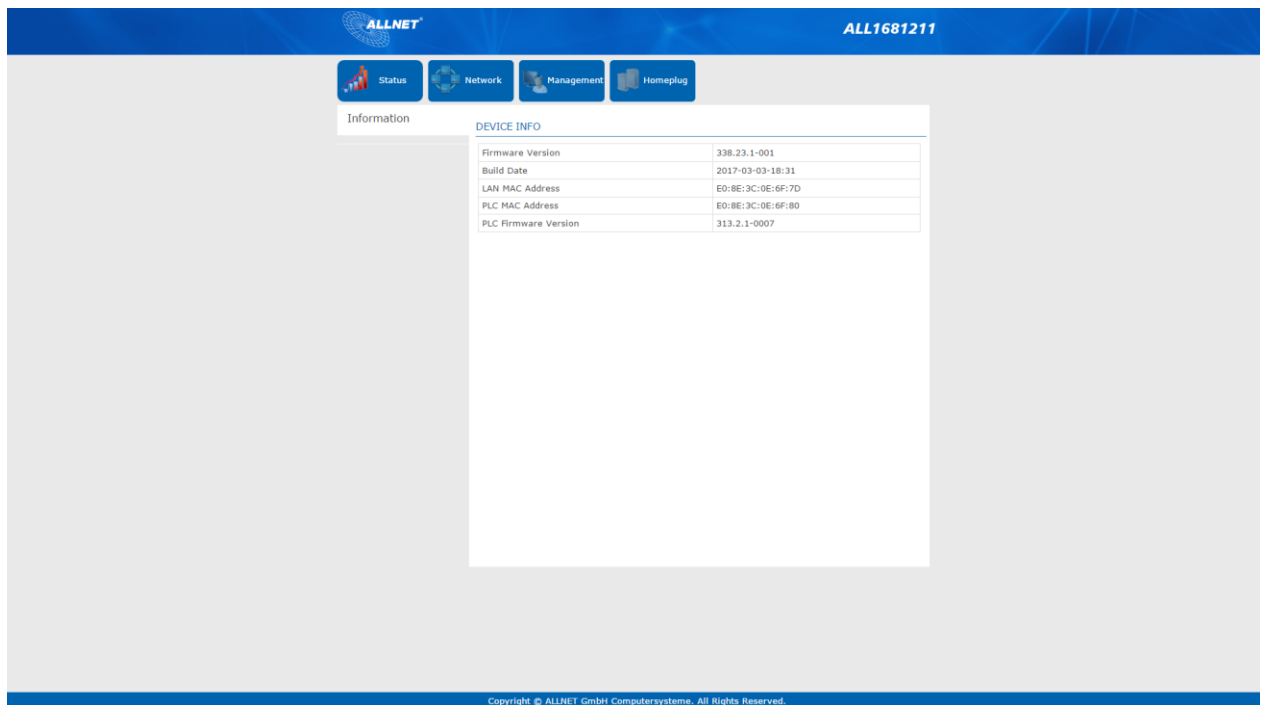
The Web User Interface enables you to view basic device information such as the HomePlugs connected in the network, the wirelessly connected devices, and other similar information. The Web User Interface also allows you to configure the device features of your ALL1681211 such as its wireless settings and security, device reboot / restart / restore, changing of admin password, and other similar properties.

It has the following menu items:

- Status
- Network
- Management
- Homeplug

Status

The Status menu tab provides a list of information about the HomePlug such as Firmware Version, Build Date, LAN Mac Address, PLC Mac Address, and PLC Firmware version.



The screenshot displays the web interface for the ALLNET ALL1681211 device. The top navigation bar includes the ALLNET logo and the model number ALL1681211. Below the navigation bar, there are four tabs: Status (selected), Network, Management, and Homeplug. The main content area shows the 'Information' section with a 'DEVICE INFO' table.

DEVICE INFO	
Firmware Version	338.23.1-001
Build Date	2017-03-03-18:31
LAN MAC Address	E0:8E:3C:0E:6F:7D
PLC MAC Address	E0:8E:3C:0E:6F:80
PLC Firmware Version	313.2.1-0007

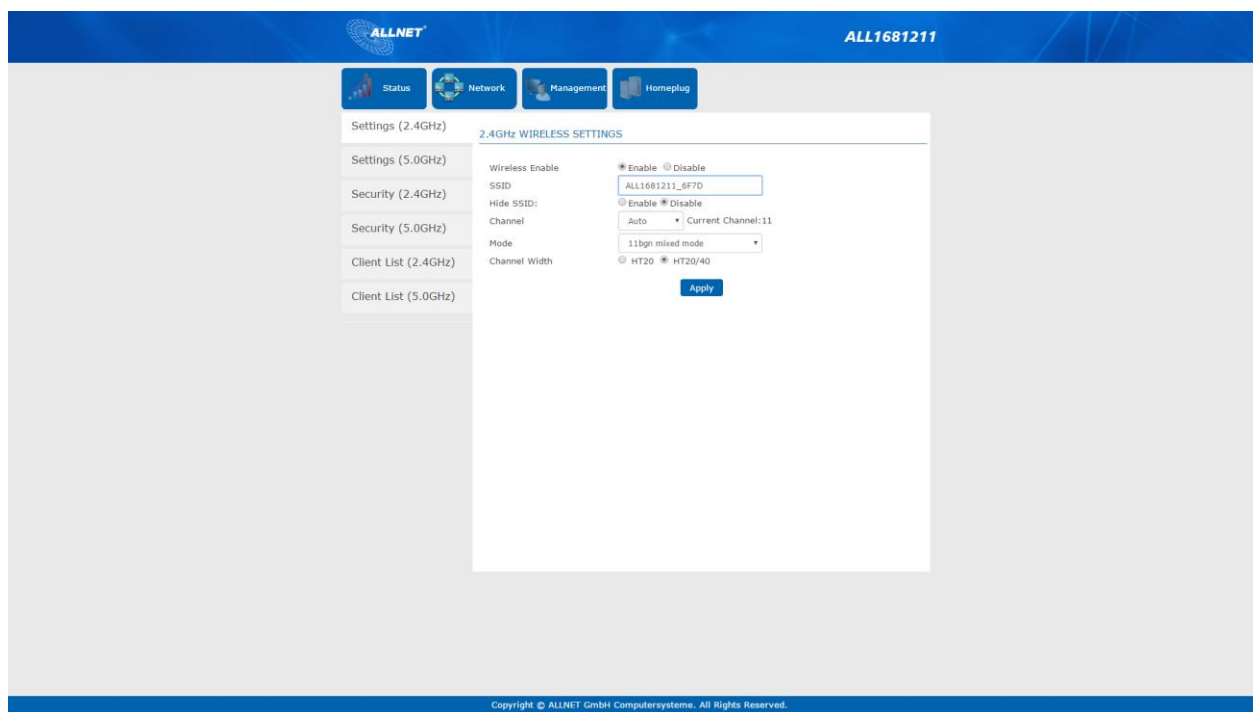
At the bottom of the interface, a copyright notice reads: Copyright © ALLNET GmbH Computersysteme. All Rights Reserved.

Network

The Network menu allows you to configure your ALL1681211's wireless settings and security. It also allows you to view the list of connected wireless devices and each device's respective MAC address. After making changes, ensure to click the Apply button at the top of the screen.

It has the following sub menus:

- Settings (2.4GHz)
- Settings (5.0GHz)
- Security (2.4GHz)
- Security (5.0GHz)
- Client List (2.4GHz)
- Client List (5.0GHz)

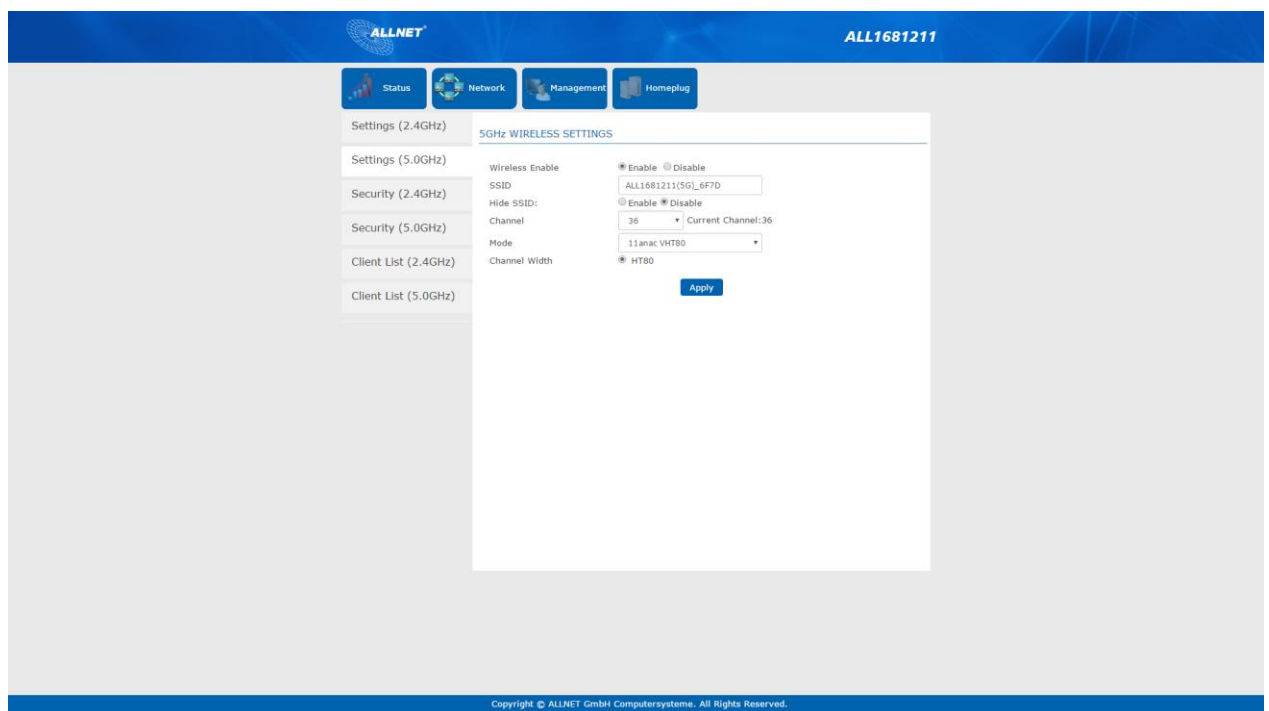


Wireless Settings

Allows you to configure the wireless properties of both the 2.4GHz and 5.0GHz frequency bands of your device.

Under the Wireless Settings, you can do any of the following actions provided below. Please ensure to press the **Apply** button to save all changes made.

- **Wireless Enable.** Allows you to enable or disable the wireless connection of your ALL1681211's network.



- **Change the SSID Name.** By changing this, you are changing the name of your ALL1681211's wireless network.
- **Hide SSID.** This will hide your Wireless Network from being detected by your devices. You would then have to manually connect your wireless devices to your ALL1681211's wireless network
- **Define Wireless Channel.** Allows you to change the current channel used by the wireless network.
- **Modify the mode,** or change the wireless standard implemented in your HomePlug AV.

Security Settings

Allows you to configure the wireless security features of both the 2.4Ghz and 5.0GHz frequency bands of your device.

Under the Security Settings, you can do any of the following actions provided below.

Please ensure to press the **Apply** button to save all changes made.

The screenshot displays the ALLNET web interface for the device ALL1681211. The top navigation bar includes links for Status, Network, Management, and Homeplug. A left sidebar lists various settings: Settings (2.4GHz), Settings (5.0GHz), Security (2.4GHz), Security (5.0GHz), Client List (2.4GHz), and Client List (5.0GHz). The main content area is titled '2.4GHz WIRELESS SECURITY' and contains the following configuration options:

- Open:** No Security Applied
- WEP:** Simple WEP Security (5 characters for 64 bit or 13 characters for 128 bit hardware key). A text input field for the key is present.
- WPA:** Enhanced Security for Personal. This section includes:
 - MODE:** Radio buttons for WPA, WPA 2, and Auto. WPA 2 is selected.
 - CYPHER:** Radio buttons for TKIP, AES, and Auto. AES is selected.
 - Personal Shared Key:** A section with a PSK KEY text input field.
 - WPS:** Radio buttons for Enable and Disable. Disable is selected.

An 'Apply' button is located at the bottom of the configuration area. The footer of the interface reads: Copyright © ALLNET GmbH Computersysteme. All Rights Reserved.

Client List

Displays a list of the devices wirelessly connected to your ALL1681211, displays the MAC address of the device connected.

The screenshot shows the web interface of the ALLNET ALL1681211 device. The top navigation bar includes the ALLNET logo and the model number ALL1681211. Below the navigation bar are four tabs: Status, Network, Management, and Homeplug. The left sidebar contains a list of settings: Settings (2.4GHz), Settings (5.0GHz), Security (2.4GHz), Security (5.0GHz), Client List (2.4GHz), and Client List (5.0GHz). The main content area displays the 'CONNECTED DEVICES (2.4GHz)' section, which contains a table with two columns: 'No.' and 'MAC Address'. The table lists one device with the number 1 and the MAC address 88:dc:96:36:99:68.

No.	MAC Address
1	88:dc:96:36:99:68

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Management

The Management menu allows you to configure your ALL1681211's web user interface login password, perform firmware updates, and even do device restart or reset. After making changes, ensure to click the Save button at the top of the screen.

It has the following sub menus:

- Device Management
- Password
- LAN

Device Management

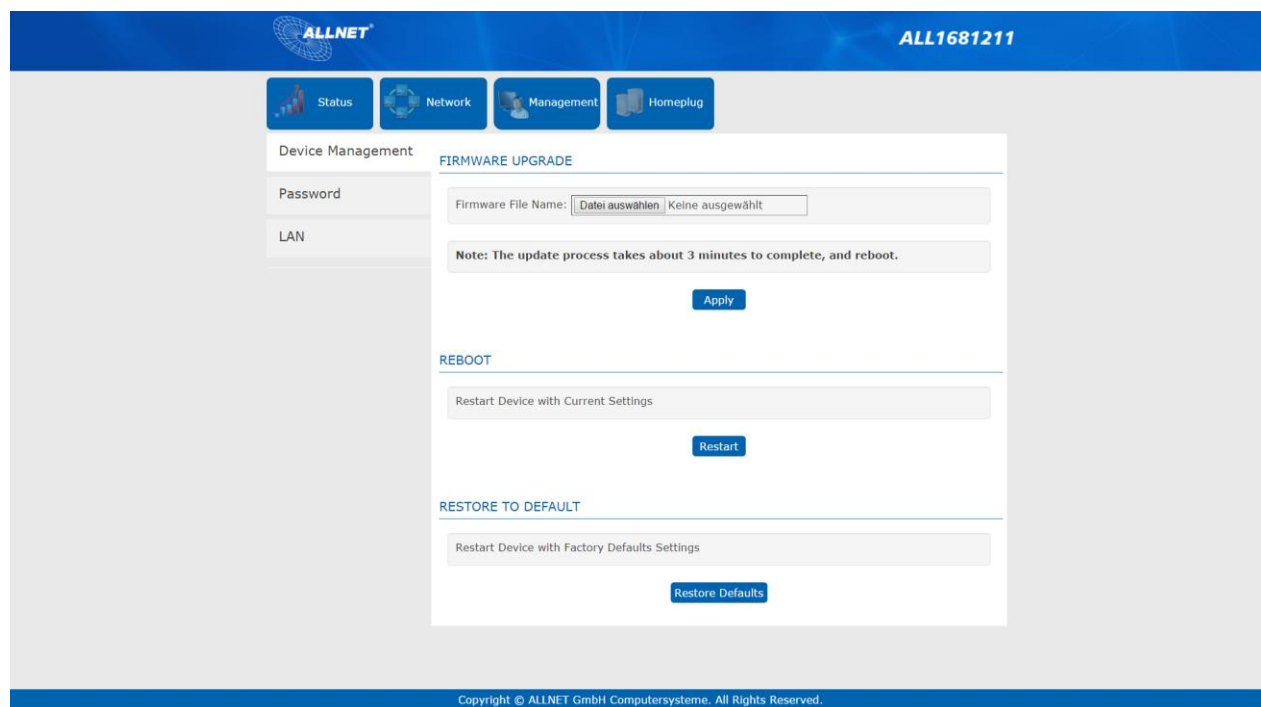
Allows you to upgrade the firmware, restart the device, or restore the device to Factory Settings.

Firmware Upgrade

Allows you to upgrade the firmware of your HomePlug AV. After upgrading the firmware, your ALL1681211 will still retain the same Private Network Name and MAC address settings. Before you proceed with the upgrade, you need to have the Firmware File (FWUpgrade). Your ALL1681211's firmware upgrade file can be downloaded from the ALLNET Support Website (<http://service.allnet.de>)

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NOTE: It is highly recommended to use **OFFICIALLY RELEASED ALLNET FIRMWARE ONLY**. These can be downloaded from the ALLNET Support Website (<http://service.allnet.de>).



To upgrade the firmware of a HomePlug AV/AV2:

1. Connect your HomePlug AV/AV2 to the computer.
2. Launch the **User Interface** through **192.168.1.2** and login.
3. Click **Management** menu tab.
4. Click **Device Management**.
5. Under **FIRMWARE UPGRADE**, click **Browse** then select the Firmware File then click **Apply** to proceed with the firmware upgrade.
6. The Firmware Upgrade will take about 3 minutes to complete.

NOTE: To check if the firmware has been upgraded successfully, go to **Status** and check if the **downloaded firmware version matches the firmware version** stated on the Information page.

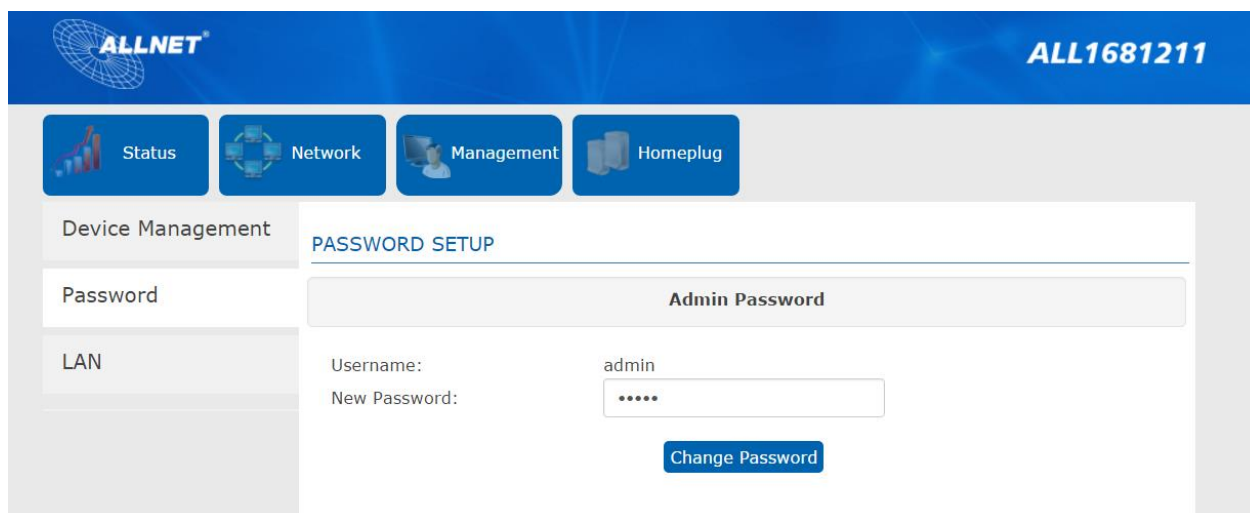
To reset to factory default:

1. Connect your HomePlug AV/AV2 to the computer.
2. Launch the **User Interface** through **192.168.1.2** and login.
3. Click **Management** menu tab.
4. Under **RESTORE TO DEFAULT**, click **Restore Defaults** button.

Note: You can also perform a reset to the factory default when you press the RESET button on the device 3 seconds.

Password

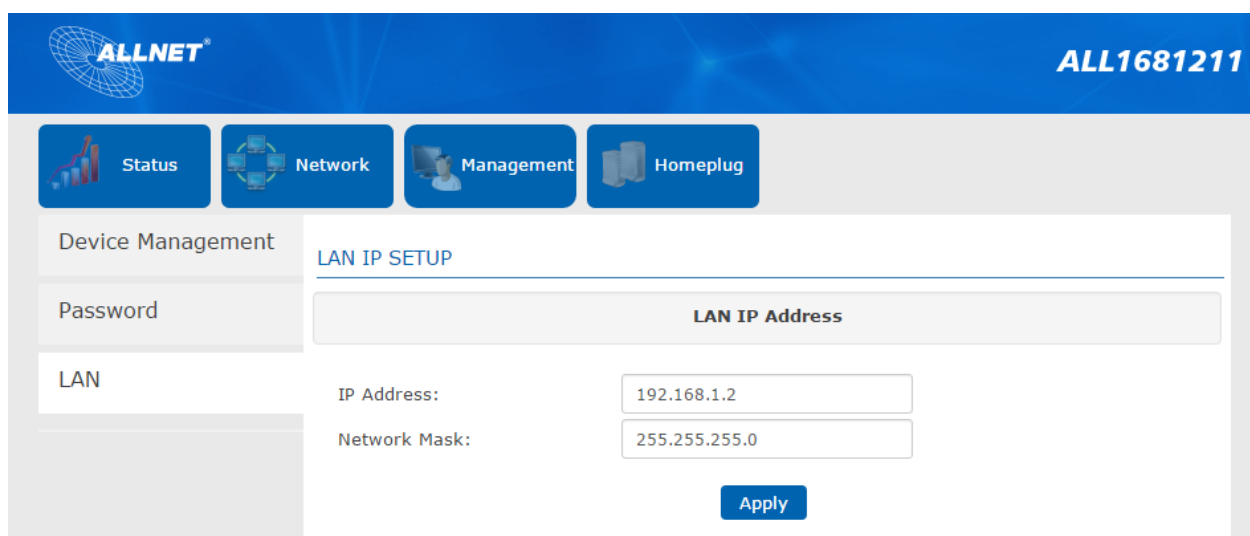
Allows you to change the log-in password of your ALL1681211's web user interface. Do take note, however, that you would be using the new password the next time you would login



The screenshot shows the ALLNET ALL1681211 web interface. The top header is blue with the ALLNET logo on the left and the model number ALL1681211 on the right. Below the header is a navigation bar with four buttons: Status, Network, Management, and Homeplug. The left sidebar contains a 'Device Management' section with three sub-items: Password, LAN, and a third item. The main content area is titled 'PASSWORD SETUP'. It features a large input field for 'Admin Password'. Below this, there are two rows of labels and input fields: 'Username:' with the value 'admin' and 'New Password:' with a masked input field. A 'Change Password' button is located at the bottom right of the form.

LAN

Allows you to change the Local Area Network IP Address.



The screenshot shows the ALLNET ALL1681211 web interface. The top header is blue with the ALLNET logo on the left and the model number ALL1681211 on the right. Below the header is a navigation bar with four buttons: Status, Network, Management, and Homeplug. The left sidebar contains a 'Device Management' section with three sub-items: Password, LAN, and a third item. The main content area is titled 'LAN IP SETUP'. It features a large input field for 'LAN IP Address'. Below this, there are two rows of labels and input fields: 'IP Address:' with the value '192.168.1.2' and 'Network Mask:' with the value '255.255.255.0'. An 'Apply' button is located at the bottom right of the form.

Homeplug

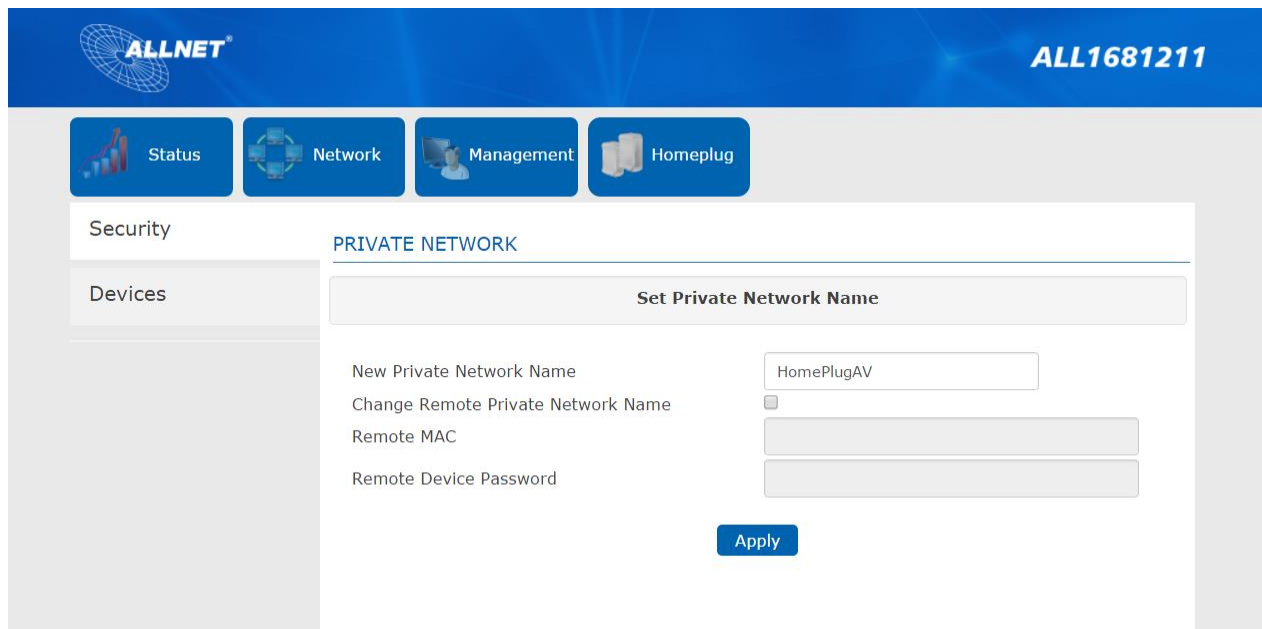
The Homeplug page allows you to change the private network name of both the local and/or remote devices. It also allows you to view the current remote HomePlug MAC addresses, and transmit / receive statistics of each device.

It has the following sub menus

- Security
- Devices

Security

Allows you to change the private network name of both local and/or remote devices in the network.



The screenshot shows the ALLNET web interface with the 'Homeplug' menu selected. The 'PRIVATE NETWORK' section is active, displaying the 'Set Private Network Name' form. The form includes fields for 'New Private Network Name' (containing 'HomePlugAV'), 'Change Remote Private Network Name' (a checkbox), 'Remote MAC', and 'Remote Device Password'. An 'Apply' button is located at the bottom right of the form.

The 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 under a different 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 the Web User Interface.

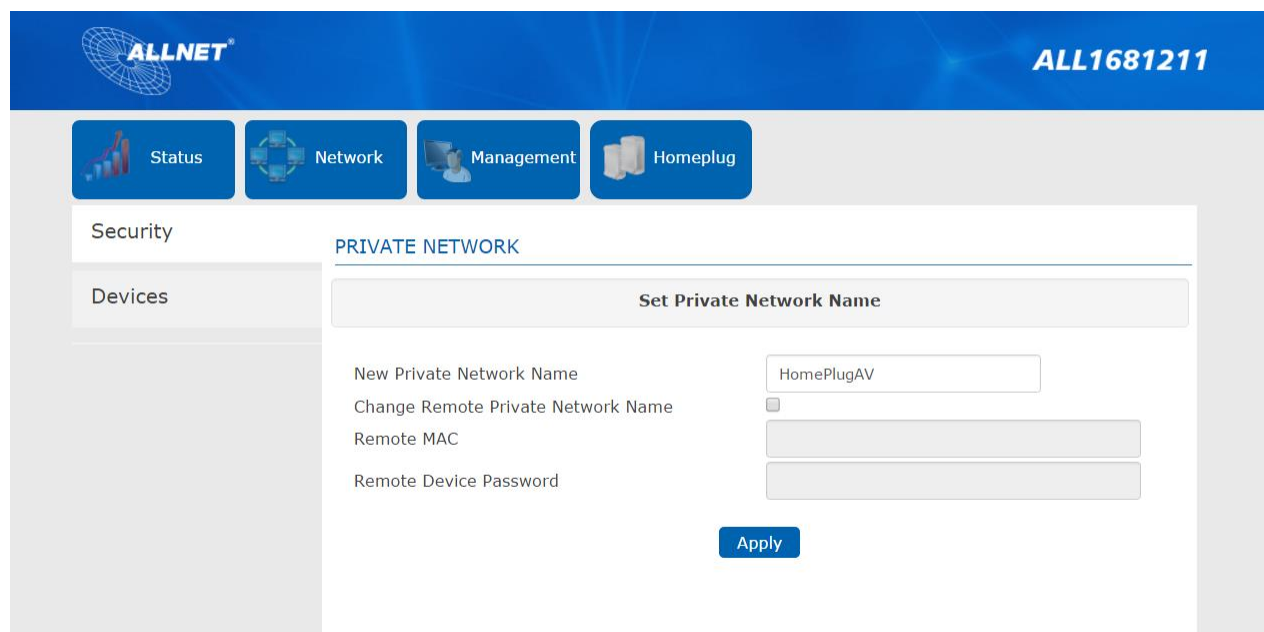
To change the local Private Network Name:

1. Launch the **User Interface** through **192.168.1.2** and login.
2. Click **Homeplug** menu tab.
3. Click **Security**.
4. Type the new **Private Network Name**. This field is case sensitive. It accepts 8 to 64 alphanumeric characters including punctuation marks but no spaces.
5. 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 are not currently connected to your local HomePlug AV network.

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 Web User Interface.



To change the Private Network Name of a HomePlug AV/AV2:

1. Launch the **User Interface** through **192.168.1.2** and login.
2. Click **Homeplug** menu tab.
3. Click **Security**.
4. Change **New Private Network Name**.
5. Type the new **Private Network Name**.

This field is case sensitive. It accepts 8 to 64 alphanumeric characters including punctuation marks but no spaces.

6. Tick the **Change Remote Private Network Name** checkbox.
7. Enter the **Remote MAC Address** of the other HomePlug AV.
8. Enter the **Device Password**. The Device Password can be found on the label sticker on each respective device
9. Click **Apply**. When the process is complete, the message "Settings Applied" would appear.

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.

Using the Simple Connect Button

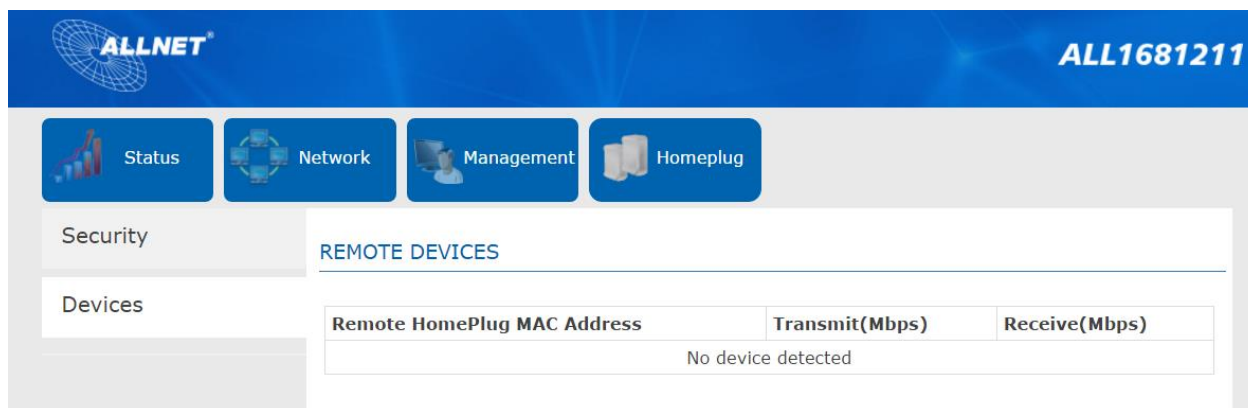
The Simple Connect button in your ALL1681211 device provides a more convenient way of creating your HomePlug AV network without the need of accessing the HomePlug AV Web UI from a computer.

Basically, the Simple Connect Button can perform the following functions below

- Resetting the Private Network Name
- Creating a secured HomePlug AV2 Network
- Joining an existing secured HomePlug AV2 Network

Devices

Devices displays information about remote HomePlug AV2's detected in the network. Only HomePlug AV2s using the same Private Network Name as the local HomePlug AV2 will appear in the Remote Devices list.



The screenshot shows the web interface of the ALLNET ALL1681211 device. The top navigation bar is blue with the ALLNET logo and the model number ALL1681211. Below the navigation bar are four tabs: Status, Network, Management, and Homeplug. The left sidebar has a 'Security' section with a 'Devices' link. The main content area is titled 'REMOTE DEVICES' and contains a table with the following structure:

Remote HomePlug MAC Address	Transmit(Mbps)	Receive(Mbps)
No device detected		

The Devices page displays the following information:

- **Remote HomePlug MAC address.** Displays the HomePlug AV/AV2 MAC Addresses.
- **Connection Rate.** Displays the Transmit and Receive connection rates.

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