

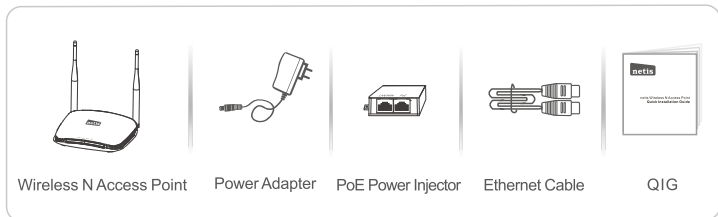


netis Wireless N Access Point  
**Quick Installation Guide**





# 1.Package Contents



Wireless N Access Point

Power Adapter

PoE Power Injector

Ethernet Cable

QIG

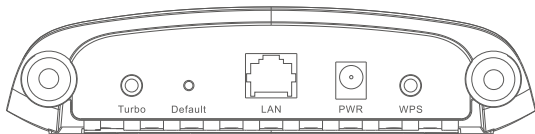
\*This QIG is for all netis 150Mbps/300Mbps wireless N access points, including models-WF2210, WF2220, etc.

\*The product model shown in this QIG is WF2220, as an example.

## 2.LED and Button Description



LED	Color	Status	Indication
PWR	Green	On	The device is initializing.
		Flashing	The device is working properly.
		Off	The device is powered off.
Turbo	Blue	On	The device works in Normal Power mode.
	Red	On	The device works in High Power mode.
WPS	Green	On	The device is initializing.
		Flashing	A wireless device is connecting to the network by WPS function. This process will last in the first 2 minutes.
		Off	No WPS connection is running.
LAN	Green	On	There's a device connected to the LAN port but no activity.
		Flashing	Data is transmitting through the LAN port.
		Off	There's no device connected to the LAN port.



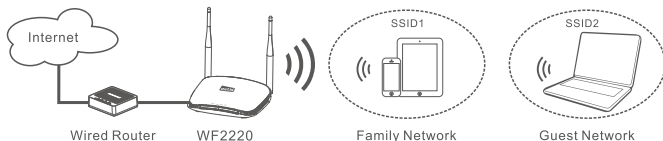
Button	Description
<b>Turbo</b>	The Turbo button is used to change signal strength by turning the Access Point from Normal Power mode to High Power mode.
<b>Default</b>	The Default button is used to restore the device's factory default settings.
<b>WPS</b>	The WPS button is used to quickly establish a secured wireless connection between the device and client devices (such as wireless adapters with WPS supported).

### 3. Typical Applications and Installation

The netis Access Point supports multiple modes including **AP, Multi-SSID (VLAN), Repeater, WDS and Client** to meet two kinds of typical applications as below.

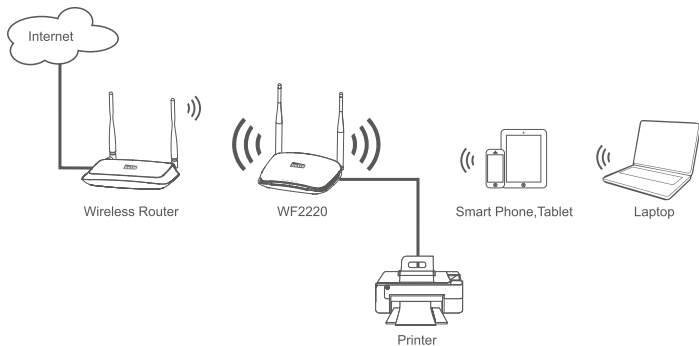
#### Application 1: Turn existing wired network into wireless network

The netis Access Point can be used to create one (default **AP** mode) or more (**Multi-SSID**) wireless networks from an Ethernet connection. It is suitable for the room where there's already a wired router but you need additional wireless hotspots.



## Application 2: Extend existing wireless network and provide additional wired connection

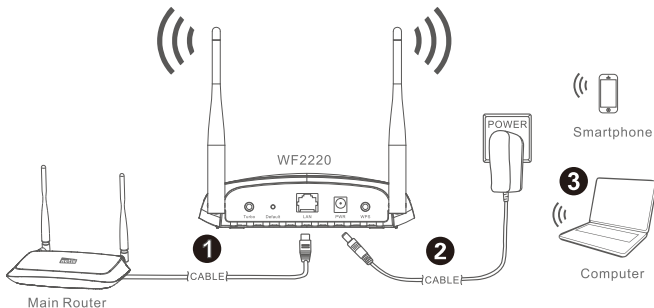
The netis Access Point can be used to bridge or repeat signal from the existing wireless network. It is suitable to setup the connection between two or more wireless networks (**WDS** mode), or extend wireless coverage for the places where the existing network signal is too weak to maintain a stable connection (**Repeater/Client** mode).



**Please check the correct application according to your network environment, and follow the corresponding steps for the selected application.**

## Application 1: Turn existing wired network into wireless network

### 3.1.1 Hardware Connection



- 1) Connect the **LAN** port of netis Access Point to your existing main router with an Ethernet cable.
- 2) Plug the provided power adapter into the **PWR** jack of netis Access Point and the other end to a standard electrical socket.
- 3) Search and connect to the netis Access Point's network "**netis\_XXXXXX**" on your wireless computers or mobile devices. The **XXXXXX** is the last 6 digits of the Access Point's MAC address. The default wireless password is "**password**".

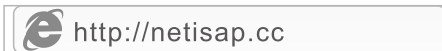
**Note:** If the distance between the electrical socket and the netis Access Point is too long to supply the power, you can refer to the Power over Ethernet (PoE) solution in "**Appendix A: With PoE Setup**".

### 3.1.2 Configuration (Optional)

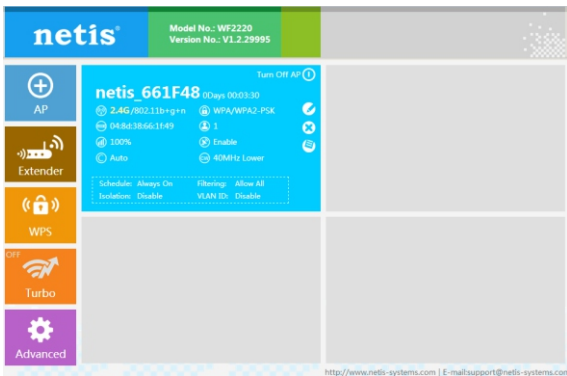
If your main router is already connected to the Internet, you'll be online through your wireless computers or mobile devices now!

If you want to change the default wireless network name and password for netis Access Point or set up more wireless networks (**Multi-SSID** mode), please go on with the following steps.


1) Open your browser on your wireless computer and type “<http://netisap.cc>” in the address field to visit netis Access point's web management page.

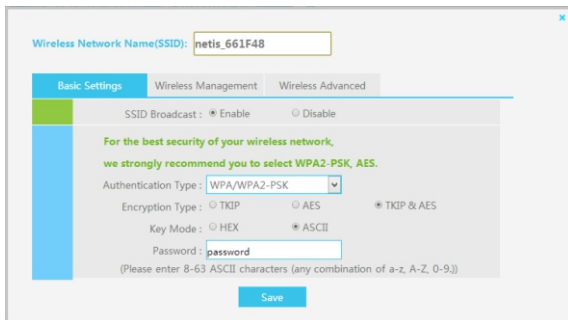


2) In this **Quick Setup** page, you will see the blue section for the default wireless network “**netis\_XXXXXX**”.




### Situation A

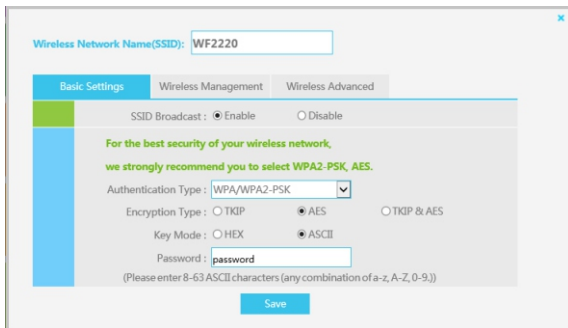
You may click the icon  to change the settings for “**netis\_XXXXXX**”, including the wireless network name (SSID) and password. Click **Save** button to make your settings take effect.



**Note:** Now you're wirelessly connected to the netis Access Point's network with default wireless name and password. Once the new settings take effect, you'd better search for the new one and connect to it with the new password.

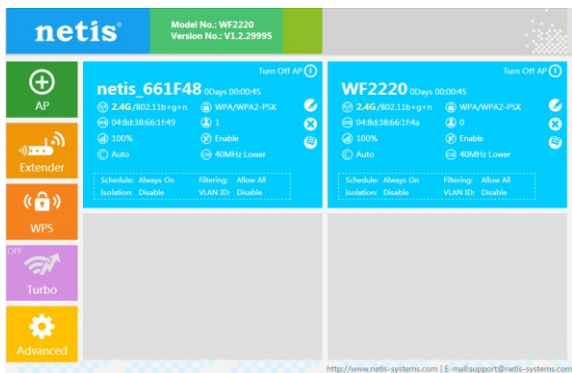
### Situation B

To create more wireless networks, you can click on the “AP” tab  on the left and set the wireless network name (SSID) and password.



Click **Save** button to make your settings take effect. Then you will see the settings updated in the **Quick Setup** page. There're two blue sections for two wireless networks broadcasted by netis Access Point.



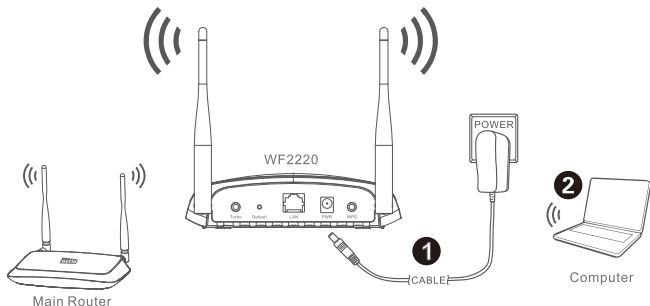


**Note:** The netis Access Point supports up to 3 different AP networks in one time. You may click the icon  for each network to change the settings for the corresponding section.

3) Now you can connect your wireless devices to the modified wireless network or new AP networks for Internet Access wirelessly.

## Application 2: Extend existing wireless network and provide additional wired connection

### 3.2.1 Hardware Connection



- 1) Plug the provided power adapter into the **PWR** jack of netis Access Point and the other end to a standard electrical socket.
- 2) Search and connect to the netis Access Point's network "**netis\_XXXXXX**" on your wireless computers or mobile devices. The **XXXXXX** is the last 6 digits of the Access Point's MAC address. The default wireless password is "**password**".
- 3) Then set a static IP (such as 192.168.1.110) for the wireless adapter of your computer. Please refer to "**Appendix B: Set Static IP for Computer**".

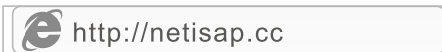
**Note 1:** If you want to setup the Access Point through cable connection,


- 1) Please connect the **LAN** port of netis Access Point to your computer with an Ethernet cable.
- 2) Then set a static IP (such as 192.168.1.110) for the wired adapter of your computer.

**Note 2:** If the distance between the electrical socket and the netis Access Point is too long to supply the power, you can refer to the Power over Ethernet (PoE) solution in "**Appendix A: With PoE Setup**".

## 3.2.2 Configuration

1) Open your browser on your wireless computer and type “<http://netisap.cc>” in the address field to visit netis Access Point’s web management page.



2) In **Quick Setup** page, click on the “**Extender**” tab  on the left, select the “**Repeater/Client**” mode, then click **AP Scan** and **Connect** to the existing wireless network of your main router.

Remote Connection Type: **Repeater/Client** Standard Bridge-WDS

To extend existing wireless network, please select Repeater/Client (Recommended);  
To bridge more than two devices, please select Standard Bridge-WDS.

Local MAC Address:2.4G -- 04:8d:38:66:1f:48

ID	SSID	MAC Address	Channel	Radio Mode	Security	Signal Strength	Connect
0	netis_WF2533	00:90:4c:01:30:01	11 (B+G+N)	AP	WPA-PSK/WPA2-PSK	100%	
1	WIFI-410	04:8d:38:00:d3:90	11 (B+G+N)	AP	WPA-PSK/WPA2-PSK	100%	
2	MERCURY_EC20	c8:e7:d8:2b:ec:20	6 (B+G+N)	AP	no	100%	
3	WIFI-409	04:8d:38:00:d3:95	8 (B+G+N)	AP	WPA-PSK/WPA2-PSK	100%	
4	WIFI-407	04:8d:38:00:c1:8e	6 (B+G+N)	AP	WPA-PSK/WPA2-PSK	100%	

Items show in every single page 5 Apply < > 1 All 3 pages

**Connect** **Refresh**

If the selected wireless network is secured with a password, please input the correct password for connection.

Remote Connection Type: **Repeater/Client** Standard Bridge-WDS

To extend existing wireless network, please select Repeater/Client (Recommended);  
To bridge more than two devices, please select Standard Bridge-WDS.

Local MAC Address:2.4G -- 04:8d:38:66:1f:48

**Repeater/Client** Wireless Management

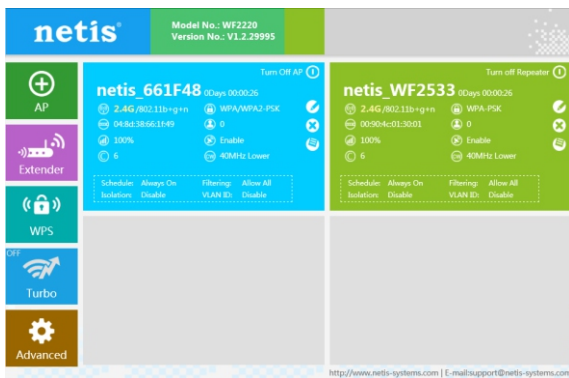
Configuration:  Automatic  Manual

Remote SSID:  **AP Scan**

Please Input Password:

**Save**

3) Click Save button to make your settings take effect. Then you will see the settings updated in the Quick Setup page. There’s a new green section for the extended wireless network broadcasted by netis Access Point.



**Note 1:** The netis Access Point will broadcast an extended wireless network with the same network name and password as your main router. Also, the default wireless network (blue section) is still available for connection.

4) Relocate netis Access Point between the main router's position and the place where the main router's network is not strong enough. Then connect your wireless devices to the default or extended wireless network, from where the main router's network is not strong enough.

**Note 2:** Generally, we recommend you to try “**Repeater/Client**” mode to connect to the existing wireless network. If you want to try “**Standard Bridge-WDS**” mode, you should try the same settings on all the access points/routers.

- 1) Click **AP Scan** to add the wireless MAC address of the remote access points/routers, and set an independent password just for WDS connection.
- 2) On the other side of the remote access points/routers, scan and add the MAC address of netis Access Point and input the same WDS connection password.

Remote Connection Type:  Repeater/Client  Standard Bridge-WDS

To extend existing wireless network, please select Repeater/Client (Recommended):  
 To bridge more than two devices, please select Standard Bridge-WDS.

Local MAC Address: 2.4G -- 04:8d:38:66:1f:48

Standard Bridge-WDS

Remote BSSID/MAC1:  + AP Scan

Authentication Type:

Key Mode:  HEX  ASCII

Password:   
 (Please enter 8-63 ASCII characters (any combination of a-z, A-Z, 0-9.))

**Note 3:** If you set a static IP for the adapter of your computer during the configuration, please remember to change the IP address settings you set on your computer back to DHCP after all the settings finished.

**Tip 1:**

Default Login Address: <http://netisap.cc>

Default Wireless SSID: netis\_XXXXXX

Default Wireless Password: password

(XXXXXX: Last 6 digits of MAC Address, you may find it from the bottom label of the device.)

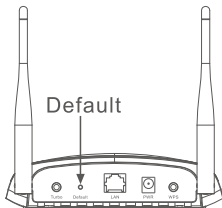
**Tip 2:**

You can click on “Advanced” button  on the left for the further settings.

## Troubleshooting

**Q** How do I restore my netis Access Point's configuration to its default settings?

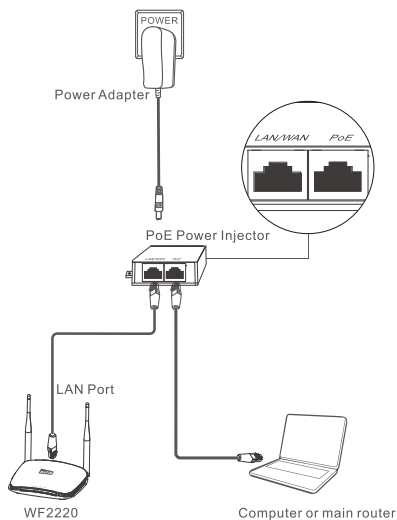
**A** With the Access Point powered on, use a pin to press and hold the **Default** button for 8 to 10 seconds before releasing it. The Access Point will reboot and all configurations are back to factory default.



**Q** What can I do if I cannot access my Access Point's web management page?

- A**
- 1) Check the hardware connection according to your application and make sure that your computer is connected to netis Access Point successfully.
  - 2) Please try to set a static IP (such as 192.168.1.110) for the wired/wireless adapter of your computer. Please refer to "**Appendix B: Set Static IP for Computer**".
  - 3) If there's no change, please reset the device by **Default** button and try all the settings from the beginning.

## Appendix A: With PoE Setup



1. Turn off all your network devices, including your computer and netis Access Point.
2. Connect your computer or main router to the **LAN/WAN** port on the PoE Power Injector with an Ethernet Cable.
3. Connect netis Access Point to the **PoE** port on the PoE Power Injector with an Ethernet Cable.
4. Plug the provided Power Adapter into the **DC-IN** jack on the PoE Injector and the other end to a stand electrical wall socket.
5. Power on your computer, then wait for one minute.

**Note:** Passive PoE Injector supports a maximum Ethernet Cable length up to 40 meters due to the environment.

## Appendix B: Set Static IP for Computer

Please make sure that your computer is connected to netis Access Point with an Ethernet cable (or wirelessly). Then you may manually set the IP address of the wired (or wireless) network adapter on your computer as below.

**IP Address/ IPv4 Address:** 192.168.1.x (1<x<254)

**Subnet Mask:** 255.255.255.0

**Default Gateway/ Router:** 192.168.1.254

**Primary DNS:** 192.168.1.254 or 8.8.8.8

### For Window 8/7/Vista

- 1) Go to **“Setting”** (Win 8)/**“Start”** (Win 7/Vista)>**“Control Panel”**.
- 2) Left-click on **“Network and Internet”**>**“Network and Sharing Center”**>**“Change adapter settings”** (Win 8/7)/ **“Manage network connections”** (Win Vista).
- 3) Right-click on **“Local Area Connection”** (wired adapter)/ **“Wireless network Connection”** (wireless adapter) and left-click on **“Properties”**.
- 4) Double-clicked on **“Internet Protocol Version 4 (TCP/IPv4)”**.
- 5) Select **“Use the following IP address”** and enter the address manually in corresponding field, then click **OK**.

### For Window XP/2000

- 1) Go to **“Start”**>**“Control Panel”**.
- 2) Left-click on **“Network and Internet Connections”**>**“Network Connections”**.
- 3) Right-click on **“Local Area Connection”** (wired adapter)/ **“Wireless network Connection”** (wireless adapter) and left-click on **“Properties”**.
- 4) Double-clicked on **“Internet Protocol (TCP/IP)”**.  
Select **“Use the following IP address”** and enter the address manually in corresponding field, then click **OK**.

### For MAC OS

- 1) Click on the **“Apple”** menu>**“System Preferences”**.
- 2) Click on **“Network”** icon.
- 3) Click on **“Ethernet”** (wired adapter)/ **“Airport”** (wireless adapter) in the left side box and click on **“Advanced”** in the lower right corner.
- 4) In the top options, select **“TCP/IP”**.
- 5) In the pull-down menu next to **“Configure Ipv4”**, select **“Manually”** and enter the address manually in corresponding field, then click **Apply**.



## Appendix C: Wireless Power Control

WF2210 and WF2220 are both wireless high power access points, they work in normal power mode. You may change it into high power mode to improve the signal strength.

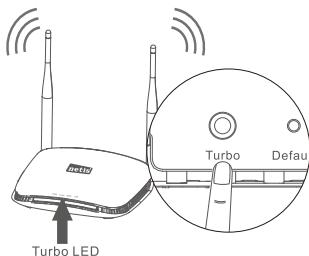
Before you change the settings, please check the color of the Turbo LED on your access point.

**Blue** — Normal Power Mode

**Red** — High Power Mode

There're two methods to change the wireless power for your access point.

### Method 1: Through Turbo Button (Particularly recommended)



Press the **Turbo Button**, then the **Turbo LED** color will change from blue to red. Now the access point will work in the high power mode with perfect wireless performance in penetrating walls and eliminating the Wi-Fi dead zones.

### Method 2: Through Web Management Page



In **Quick Setup** page, click on **"Turbo"**, select **"Enable"** as the Signal Strength. Now the access point will work in the high power mode with perfect wireless performance in penetrating walls and eliminating the Wi-Fi dead zones.

## Appendix D: 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.

### FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5150 to 5250MHz band are restricted to indoor use only. (For 5GHz devices)

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Caution!

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



## **Technical Support:**

USA/ Canada

Toll Free: +1 866 71 network (+1 866 716 3896)

E-mail: [usa\\_support@netis-systems.com](mailto:usa_support@netis-systems.com)

Other Regions:

E-mail: [support@netis-systems.com](mailto:support@netis-systems.com)

NETIS SYSTEMS CO., LTD.

[www.netis-systems.com](http://www.netis-systems.com)

MADE IN CHINA