NEXXT

SOLUTIONS

NexxtGate150

HIGH POWER ACCESS POINT

Quick Installation Guide

1. Introduction

Thank you for purchasing the Nexxt Solutions 2.4 GHz High-Power Wireless-N Access Point **NexxtGate150**. If any of the following items are mismatched, missing or damaged, please contact the merchant from whom you purchased the unit for immediate replacement.

- 150Mbps wireless long-range access point 1 pc
- Power adapter 1 pc
- Ethernet cable 1 pc
- Tie wraps 2 pcs
- Passive PoE injector 1 pc
- Screws and anchors 2 pcs each
- Grounding screw 1pc
- Quick installation guide

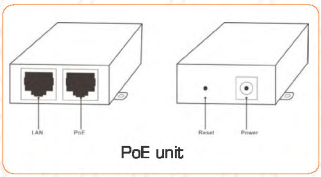
2. Product overview

2.1 Front view layout and connectors

Please refer to the figure below to familiarize yourself with the access point's layout, features and connectors.

1. **Ground:** Attach a copper wire here to establish a good earth ground and to provide the proper surge and lightning protection.
2. **SMA:** This is a RP- SMA jack to connect an optional external antenna
3. **LAN:** This is a 10/100Mbps LAN port
4. **LAN/WAN/POE:** This port provides Power over an Ethernet connection through the injector module, and it works interchangeably as a WAN port in router mode and as a LAN port in AP mode.
5. Cable access hole cut-outs.

2.2 Injector overview

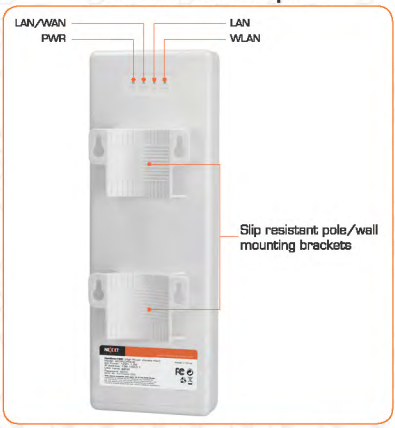


PoE unit

- **LAN/WAN:** 100Mbps Ethernet port.
- **POE:** Power over Ethernet port.
- **Reset:** Press it for 8-10 seconds to restore device to factory its default settings.
- **Power:** DC input jack.

2.3 Rear view

LED status indicator panel



LED	Status	Description
PWR	Solid orange light	The device is connected to the power source
WAN/LAN	Solid orange light	An Ethernet cable is connected
	Blinking orange light	Data is being transmitted through that port
LAN	Solid orange light	An Ethernet cable is connected
	Blinking orange light	Data is being transmitted through that port
WLAN	Orange	Maximum power is used to broadcast the wireless signal
	Pink	Medium power is used to broadcast the wireless signal
	Red	Low power is used to broadcast the wireless signal

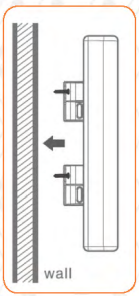
2.4 Checking the LEDs

Upon powering on your access point, verify that the PWR and WLAN LEDs light up orange.

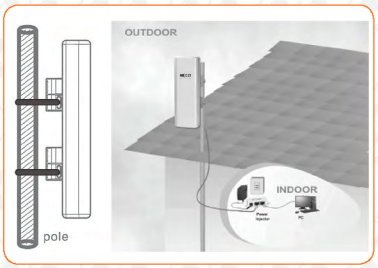
3. Location of the access point

Before making any hardware connections, find a suitable location to place the access point. The best spot is usually at the center of the wireless network, with unobstructed line-of-sight to all wireless clients operating in the coverage area.
Also consider that the higher the antenna is placed, the better the device can perform. Do not forget to make sure that the structure or pole you use to install the device is stable and properly secured.

1. If setting up the device in an indoor installation, use the keyholes on the brackets to mark the location on the wall where the access point is to be mounted.
2. Drill the holes and then drive the supplied anchors (if required) and screws into the wall. Leave the head of the screw slighgtly above the surface to hang the access point from the keyholes on the back.

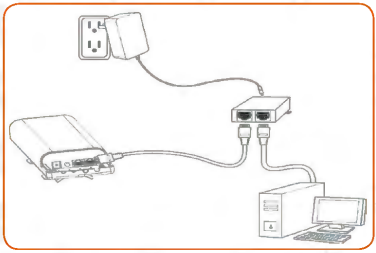


3. If setting up the device in an outdoor location, thread the tie wraps trough the grooves underneath the brackets. Then attach the device firmly to the pole. The connection will be similar to the figure below, once the above steps have been successfully completed.



4. Hardware installation

1. Slide the bottom cover of the unit down to expose the ports.
2. In order to integrate your new wireless access point into your installation, start by plugging one end of an Ethernet cable to the PoE port of the supplied injector module, and the other end of the cable to the LAN/WAN/POE port on the access point.
3. Use a second Ethernet cable to make the connection between the LAN port of the PoE module and your computer.
4. Replace the cover by sliding it up it until it clicks in place.
5. Power the device by plugging the included AC power adapter to DC jack on the PoE unit, and the other end into a standard wall outlet.

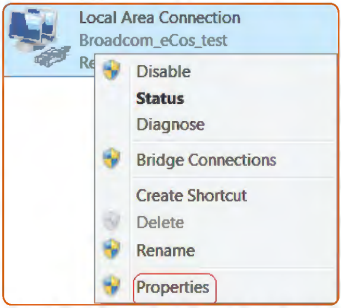


5. Initial configuration

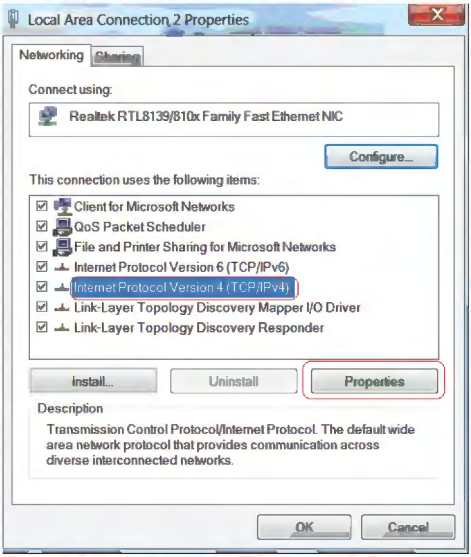
Note: only a wired network connection can be used for the initial configuration of the access point.

Since this this device operates in AP mode by default, the user needs to manually configure a static IP address for the PC.

1. To do so, click on **Start > Control Panel > Network and Internet > Network** and **Sharing Center**, followed by **Change adapter settings**.
2. After right-clicking on the **Local Area Connection**, select **Properties**.



3. Select **Internet Protocol Version 4 (TCP/IPv4)** and then go to **Properties**. You may also enable this option directly by double-clicking on **Internet Protocol Version 4 (TCP/IPv4)**.



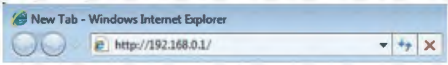
4. Once the next dialog box comes up, select **Use the following IP address** option. The following items will become available:

- **IP address:** Enter 192.168.0. XXX (whereby X is any number between 2~253).
- **Subnet mask:** Enter 255.255.255.0.

5. Click **OK** twice to save your settings and complete the IP address configuration of the device.

5.1 Login

1. Start your WEB browser. Type **http://192.168.0.1** in the address field and press **enter** to continue.



2. A dialog box will prompt you to enter the **User name** and **Password**. By default, both are set to **admin**, in lowercase. Click **login** to complete this step.

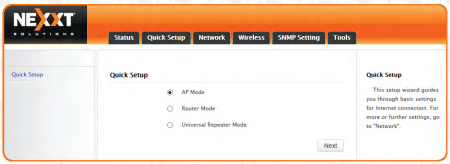
3. Afterwards, you can assign a new password for security purposes without necessarily modifying the default user name.
4. If the login window fails to appear, it means that your Web-browser has been set to a proxy. Verify that your parameters and passwords are correct, before making another attempt.

5.2. Quick setup wizard

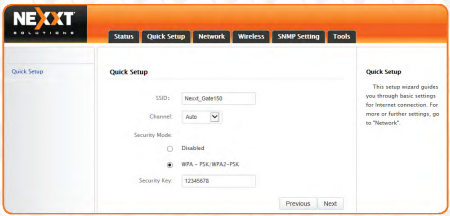
1. After successfully logging in, click on the **Quick setup** tab. Three operation modes are provided in the access point to meet each user's needs.

   - **AP mode:** this mode enables wireless devices to access a network using wi-fi, in an access point configuration.
   - **Universal repeater mode:** choose this mode to enable users to share the internet as a WISP client router.
   - **Router mode:** choose this mode to enable users to share internet via ADSL/Cable modem, in a wireless broadband router configuration.

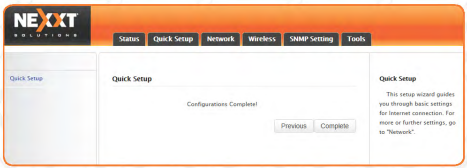
2. For illustration purposes, we will walk you through the AP option, which is also the default mode of operation for the device.



3. After selecting **AP mode**, click **Next** to open the wireless configuration window, as illustrated below:

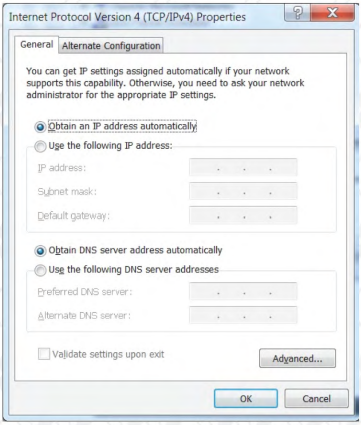


4. Proceed to configure the basic wireless parameters including SSID, channel and security.
   - **SSID:** enter a unique name to identify your wireless network. However, choose one that is easily remembered by network users. In this example, we are using **Nexxt_XXXXXX** as the SSID identifier (whereby the "X" represents the last six digits of the access point´s MAC address).
   - **Channel:** for optimal wireless performance, use the Auto default setting to let the device automatically scan a channel with the least interference for your wireless network to operate on, or you may manually select an unused channel from the drop-down list.
   - **Security mode (encryption algorithm):** this option is disabled by default with no password assigned. However, we recommend selecting **WPA/WPA2-PSK** and entering a passkey in order to properly secure your network.
5. Click **Next** to configure the wireless settings for the device. The device MUST operate on the same channel as the uplink AP for successful implementation of the feature.
6. Click on **Complete** to exit the Quick Setup wizard and reboot the access point.

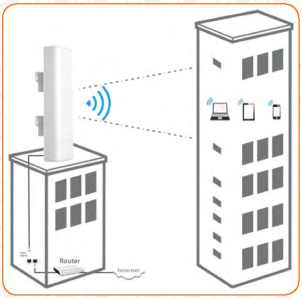


7. To do so, go to **Tools > Reboot >Reboot**. When the initialization process is complete, changes will take effect and the device will be ready to operate in AP mode.

8. Remove the LAN cable from your computer and the PoE module. Now, insert your internet cable into the port labeled **LAN** located in the PoE device.
Note: at this point you need to set the computer back to **obtain an IP address automatically**.
Refer to steps 1 through 4 under section 5, *Initial configuration*.



9. The figure below illustrates the typical network topology in AP mode.



10. Refer to the manual later on for any customized settings such as security, encryption, network modes, antenna alignment and more.

FCC statement

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.

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 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 caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Radiation exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

FCC ID: X4YNXG150