

Rapidlogger Systems

EnGenius ENS202EXT Access Point

This tech note describes how to setup the EnGenius Wi-Fi access point and connect it with the Rapidlogger System. This will allow you to wirelessly communicate between your Rapidlogger System and computer.



Equipment needed:

EnGenius ENS202EXT

2 Ethernet cords

Connecting the AP (Access Point)

1. Remove the rear bottom panel
2. Connect one end of the Ethernet cable into LAN(PoE) port of the AP and the other end to the PoE Ethernet port on the PoE injector (For a visual of steps 2-4, refer to Figure 1)
3. Connect the power adapter to the DC-IN port of the AP and plug the other end into an electrical outlet.
4. Connect the second Ethernet cable into the LAN port of the PoE injector and the other end to the Ethernet port on the computer
5. Place the panel removed from step 1 back into the device.
6. Screw on the provided antenna/s to the top of device

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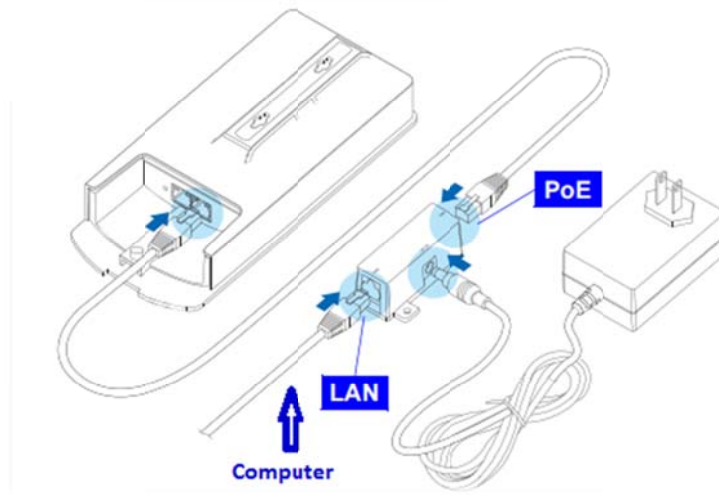


Figure 1

IP Address Configuration

7. Once your computer is on, ensure that your TCP/IP is set to ON or enabled. Open Network Connections and then click local area connection. Under properties select Internet Protocol Version 4 (TCP/IPv4)
8. If your computer is already on a network, ensure that you have set it to a Static IP Address on the interface as seen in Figure 3

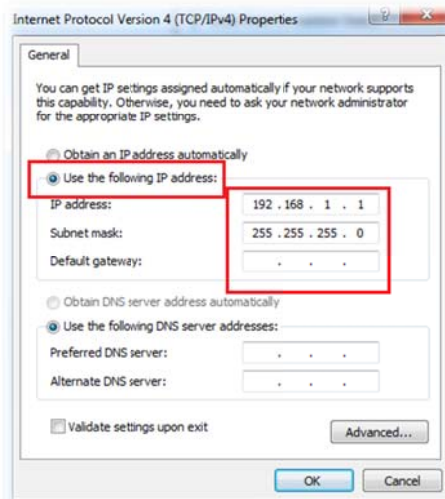


Figure 3

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AP Bridge Setup

9. Click on the internet symbol located at the bottom right hand corner of your screen. Switch your network to **EnGenius** shown in figure 4

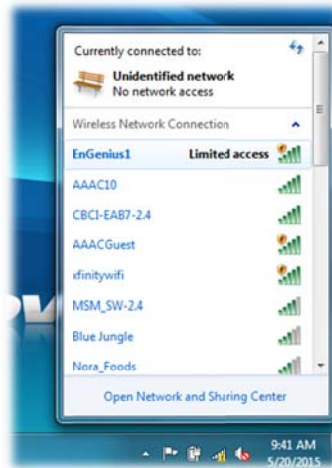


Figure 4

10. To configure the AP, open a web browser. In the address bar of the web browser, enter **192.168.1.1** and hit enter

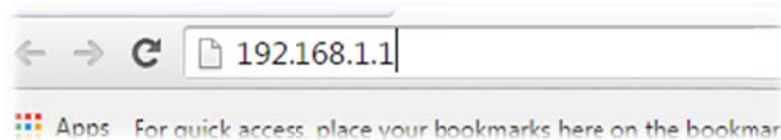


Figure 5

11. A login screen will appear. By default, the username of the AP is **admin** and the password is **admin**. Enter the current username and password of the AP and then click **Login**
12. This device will need to be set to mode Access Point. Click on the **Operation Mode** link under the System Properties. Save and apply

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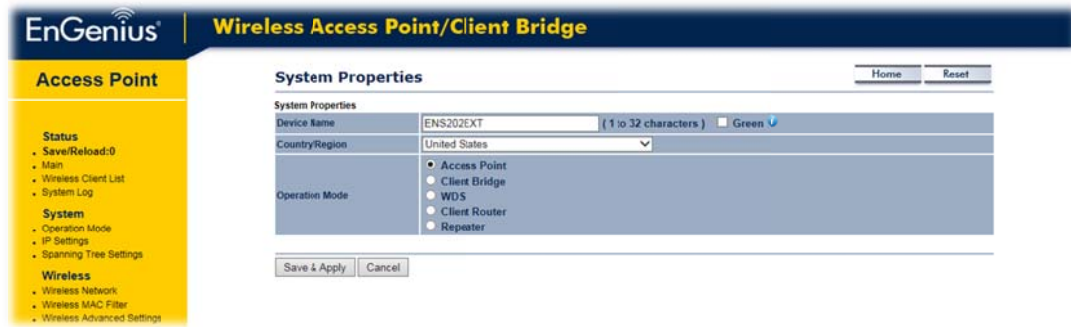


Figure 6

IP Settings

In order to connect with the Rapidlogger. We will have to change the IP settings from the default one.

- As figure 6 shows we will be changing the following:
IP Address: **192.168.0.2**
IP Subnet Mask: **255.255.255.0**
Default Gateway: **192.168.0.1**

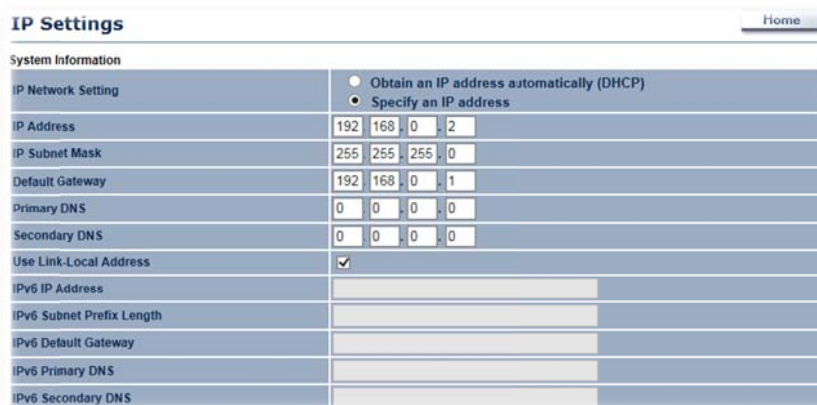


Figure 7

- Once this is complete click **Save/Reload:** under **Status** located in the yellow (far left)
- Click Save & Apply and exit this browser
- Disconnect the Ethernet from your computer and plug into Rapidlogger. Turn on the Rapidlogger.

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Figure 8

17. Click on the internet symbol located at the bottom right hand corner of your screen. Switch your network to **EnGenius**
18. Click the internet symbol again and click **Open Network and Sharing Center**
19. Select on the left, **Change adapter settings**
20. Follow step 7
21. Switch the setting to **obtain an IP address automatically**
22. Click okay
23. Click okay
24. Double click on the **Wireless Network Connection**
25. Under properties change its IPv4 to **Use the following IP address** and input

IP address: **192.168.0.88** (last number can be whatever you would like except 5. This is the Rapidlogger's IP address)

Subnet mask: **255.255.255.0**

Default gateway: **192.168.0.1**

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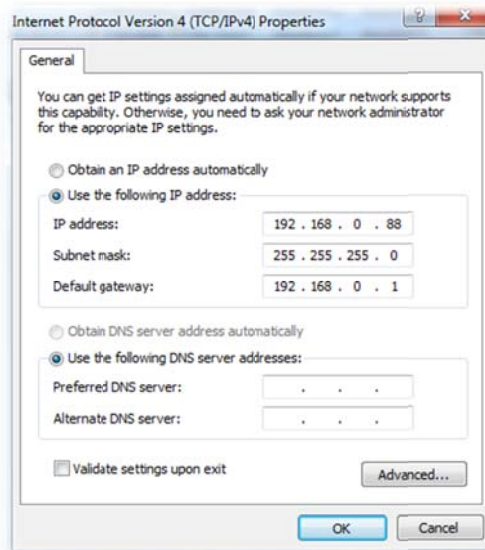


Figure 9

26. Open command prompt and type in: `ipconfig`. You should see under Wireless LAN adapter your IPv4 address you just setup here as in figure 10

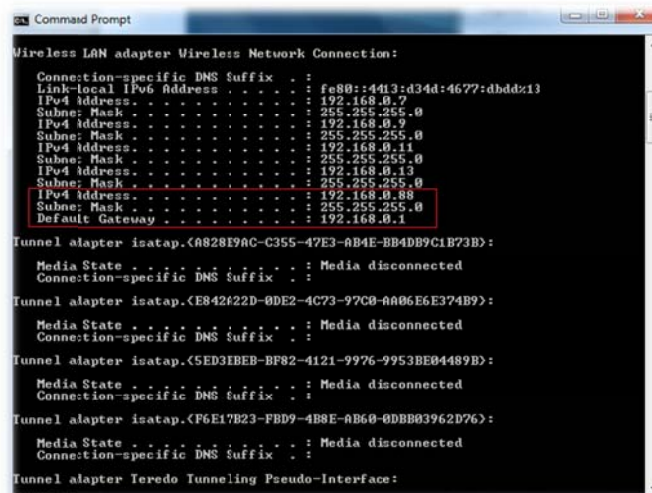


Figure 10

27. Next type: `ping 192.168.0.88` and hit enter. You should see 4 sent and 4 received. This means you are connected/communicating well between your computer to the Engenius.

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28. Now let's check from computer to Rapidlogger. Type: **ping 192.168.0.5** and hit enter. We should see the same, 4 sent and 4 received.
29. Last go into the RapidVU software and try to run. If Rapidlogger word and circle light up green, then you are connected.
30. You are now able to communicate to the Rapidlogger system from your computer.

Mounting the WiFi Engenius

31. Mount your Engenius somewhere close by your Rapidlogger system. This is usually done with tie wraps to a pole as seen in figure 11



Figure 11