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

Rapidlogger Tech note # 49

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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

eral						
u can get IP settings assigned	automatically	if yo	ur net	work	supp	orts
r the appropriate IP settings.	eed to ask you	rne	WORK	aom	nisua	stor
Obtain an ID address autor	natically					
 Use the following IP address 	s					
IP address:	192 .	168	. 1	. 1	0	
Subnet mask:	255 .	255	. 255	. 0		
Default gateway:	[3					
Obtain DNS server address	automatically					
Use the following DNS server	er addresses:					
Preferred DNS server:			<i>.</i> :	•		
Alternate DNS server:		1	•	£.	1	
Validate settings upon exit			(Ad	vance	ed

Figure 3

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

$\leftarrow \rightarrow$	G	192.168.1.1
Apps	For	nuick access, place your bookmarks here on the bookmar
		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**

Change Access Point's Name

12. Click **Wireless Network** under the Wireless Branch as seen in Figure 6.

cess Point	Wireless Networ	Wireless Network				Home	Rese
A	Wireless Mode	802.11 E	3/G/N Mixed	•			
	Channel HT Mode	20/40MHz •					
	Extension Channel	Lower Channel V					
et .	Channel / Frequency	Ch5-2.4	32GHz 🔻	Auto			
150	AP Detection	Scan					
		Current Profiles					
	SSID		Security	Isolation	VID	Enable	Edit
	EnGenius1		None		1	~	Edit
ings	EnGenius2		None		2		Edit
	EnGenius3		None		3		Edit
	EnGenius4		None		4		Edit
ings							
nt	Accept Cancel						

Figure 6

- 13. Click Edit as seen by Figure 6. It will take you to the SSID Profile. Change the SSID from **Engenius1** to **Rapidlogger**.
- 14. Click Save
- 15. On the left (in yellow) under Status click Save/Reload:
- 16. Click Save & Apply

IP Settings

In order to connect with the Rapidlogger, we will set our AP in DHCP mode. We will have to change the IP settings from the default one.

17. At the end of the URL type in "<u>/html/LANSettings</u>" as seen in figure 7.

🗋 192.168.0.1/cgi-bin/luc	i/html/LANSettings	
	Figure	7

18. It will take you to LAN Settings screen as seen in Figure 8. You will need to change the following:

> IP Address: 192.168.0.1 IP Subnet Mask: 255.255.255.0 Use Router as DHCP Server: Check box Starting IP Address: 192.168.0.100



Ending IP Address: **192.168.0.200** WIN S Server IP: **0.0.0.0**

← → C	192.168.0.1/cgi-bin/luci/html/LANSettings				
	LAN Settings				
	LAN IP Setup				
	IP Address	192.168 0.1			
	IP Subnet Mask	255 . 255 . 255 . 0			
	Jse Router As DHCP Server				
	Starting IP Address	192 . 168 0 100			
	Ending IP Address	192 . 168 . 0 200			
	WINS Server IP	0.0.0.0			
	Contraction of Contraction				



- 19. After it looks like figure 8 click Accept
- 20. Double click back button to get back to main screen
- 21. Click **Save/Reload**: as seen in figure 9



Figure 9

- 22. Click Save & Apply
- 23. It will load new parameters into Access Point
- 24. Disconnect the Ethernet from your computer and plug into Rapidlogger. Turn on the Rapidlogger.



Figure 8

- 25. Click on the internet symbol located at the bottom right hand corner of your screen. Switch your network to **Rapidlogger**
- 26. Click the internet symbol again and click **Open Network** and Sharing Center
- 27. Select on the left, Change adapter settings
- 28. Follow step 7
- 29. Switch the setting to obtain an IP address automatically
- 30. Click okay
- 31. Click okay
- 32. Open the internet window again and type in 192.168.0.1
- 33. Input
- 34. Open command prompt and type in: ipconfig. You should see under Wireless LAN adapter your IPv4 address as in figure 10

Areless LHN adapter Wireless Network Connection:	
Connection=specific DNS Suffix :	
Subnet Mask	
Media State	
unnel adapter isatap.tess2N22D=DD22=4C/3=7AB=MM96E6E37H87): Media State : Media disconnected Connection=specific DNS Suffix . :	
unnel adapter isatap.<5ED3EBEB-BF82-4121-9976-9953BE04489B>:	
Media State : Media disconnected Connection-specific DNS Suffix . :	
unnel adapter isatap.(F6E17B23-FBD9-4B8E-AB60-0DBB03962D76):	

Figure 10

- 35. Next type: **ping 192.168.0.??**(As shown for you) and hit enter. You should see 4 sent and 4 received. This means you are connected/communicating well between your computer to the Engenius.
- 36. 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.
- 37. Last go into the RapidVU software and try to run. If Rapidlogger word and circle light up green, then you are connected.
- 38. You are now able to communicate to the Rapidlogger system from your computer.

Mounting the WiFi Engenius

39. 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