

How to setup the range extender by using the Setup Wizard in CD Disc

Thank you for purchasing Edimax Wireless Access Point. We hope this instruction can help you setup the extender to extend your existing Wi-Fi network to a further location which has poor Wi-Fi reception.

1. This instruction is for Windows computer only.

If your computer is a Macintosh, we have a different instruction for Macintosh users on <http://www.edimax.us>. Mac users will use Safari web browser to setup the extender manually.

2. This instruction can be applied on Edimax Wireless Access Point Series: EW-7416APn, and EW-7228APn.

3. This instruction uses the CD disc came with EW-7416APn or EW-7228APn. If you lost the CD disc, you can download the Setup Wizard program from <http://www.edimax.us> Download Area.

4. The Setup Wizard program provides an easier way to setup the extender. In case you experience any trouble with the Setup Wizard program, you can manually configure the extender by a web browser like Internet explorer. You can find the instruction on <http://www.edimax.us> Tech Support area.

5. Once the setup is completed, you will get a wireless network from extender. While you connect to the extender network, please enter the same wireless password of your existing Wi-Fi network.

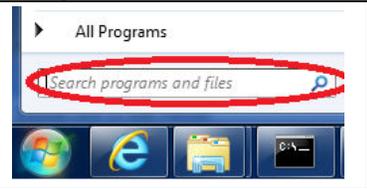
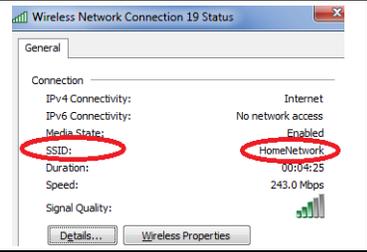
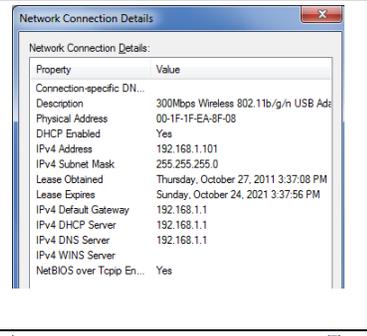
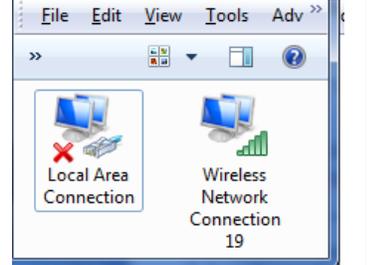
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Introduction

To make Access Point associate with an existing wireless router, you need to do some setup so that the extender can associate with your existing Wi-Fi network. You need to have some basic understanding about your current network and you have to enter correct setting in extender.

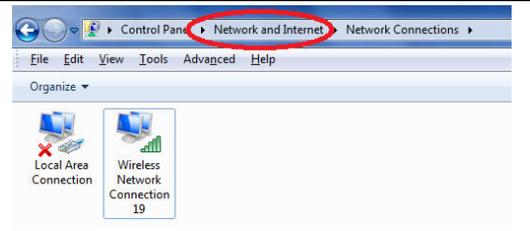
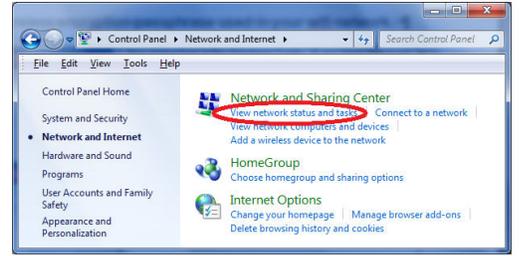
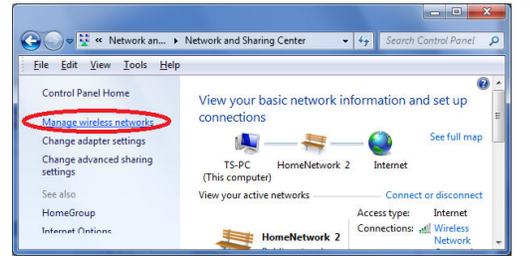
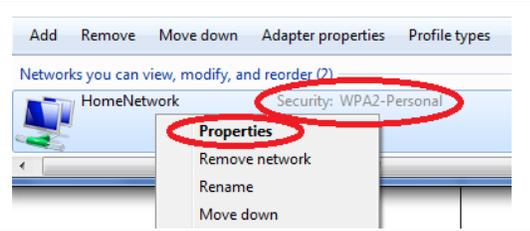
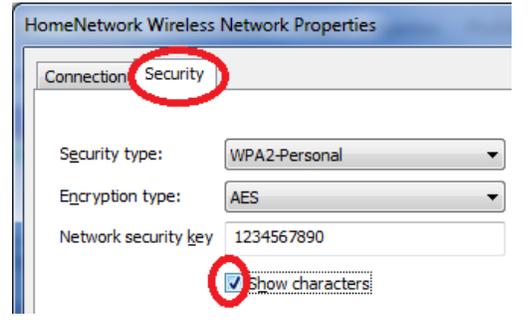
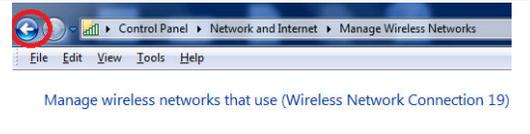
You can feel free to skip step 1 and step 2 if you have some networking knowledge. While you do the step1 and step 2, please have your computer (either wireless or wired computer) get on Internet as usual. You can leave the Edimax Device off.

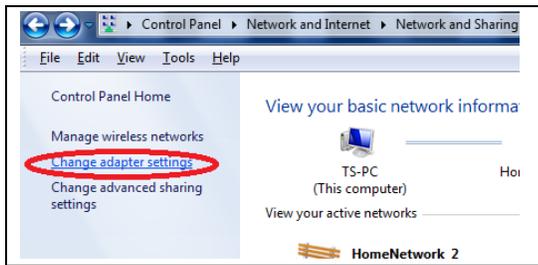
Step 1. Understand the IP address used in your network.

	<p>For Windows Vista or Windows 7 computer: click on Start menu. Go to “Search Programs and files”. Type in the command “ncpa.cpl” hit Enter key.</p> <p>For Windows XP computer: Click on Start menu. Click on Run. Enter “ncpa.cpl” hit Enter key.</p>
	<p>You got the “Network Connections” window. You would see the icon of Local Area Connection or the icon of Wireless Network Connection.</p> <p>Double click on your network connection icon (either Local Area Connection or Wireless Network Connection, depends on your connection). You will get into the Connection Status window.</p>
	<p>If you happen to use wireless network connection, make sure it connect to the existing Wi-Fi network by checking its SSID name. The SSID should be your main wireless network.</p> <p>Click on Details button.</p>
	<p>For future reference, you may write down the IPv4 address, IPv4 subnet mask, and IPv4 Default gateway. The IPv4 default gateway address is the address of your Wi-Fi router.</p> <p>In this example, the computer has IP address 192.168.1.101 and the Wi-Fi router uses 192.168.1.1. <i>This network uses 192.168.1.x subnet.</i></p> <p>All the devices in the network have the same first three octets of IP address, but the last octet number must be different. You can keep the Edimax extender with its default 192.168.2.1 address. However, you may want to assign a new IP address to extender. This new IP could be helpful for trouble shooting purpose.</p>
	<p>Click on Close button twice until you are back to the “Network Connection” window.</p>

Step 2. If your Wi-Fi network is secured with a wireless security password, you need to know your wireless password.

This step is for Windows 7/Vista Wireless computer. If you have Windows XP or have no Windows 7/Vista wireless computer, you need to log into your Wi-Fi router's configuration page or you can check with the person who setup your Wi-Fi network to find out your wireless security password.

	<p>Click on Network and Internet on the top menu.</p>
	<p>Click on View Network Status and tasks which is the line below Network and Sharing Center.</p>
	<p>Click on Manage Wireless networks on the left menu.</p>
	<p>You should see the network name of your existing Wi-Fi network in the list. <u>Right click</u> on your Wi-Fi network, click on Properties.</p>
	<p>Click on Security tab. Click the box of Show characters. That will show you the wireless encryption passphrase used in your wireless network. Take a note of your wireless security key. The key is case sensitive. Edimax extender will need to use the same wireless encryption key so it could connect to your Wi-Fi router. Click on Cancel button to close the window.</p>
	<p>Click on the blue back arrow on the top left corner to go back to Network and Sharing Center window.</p>



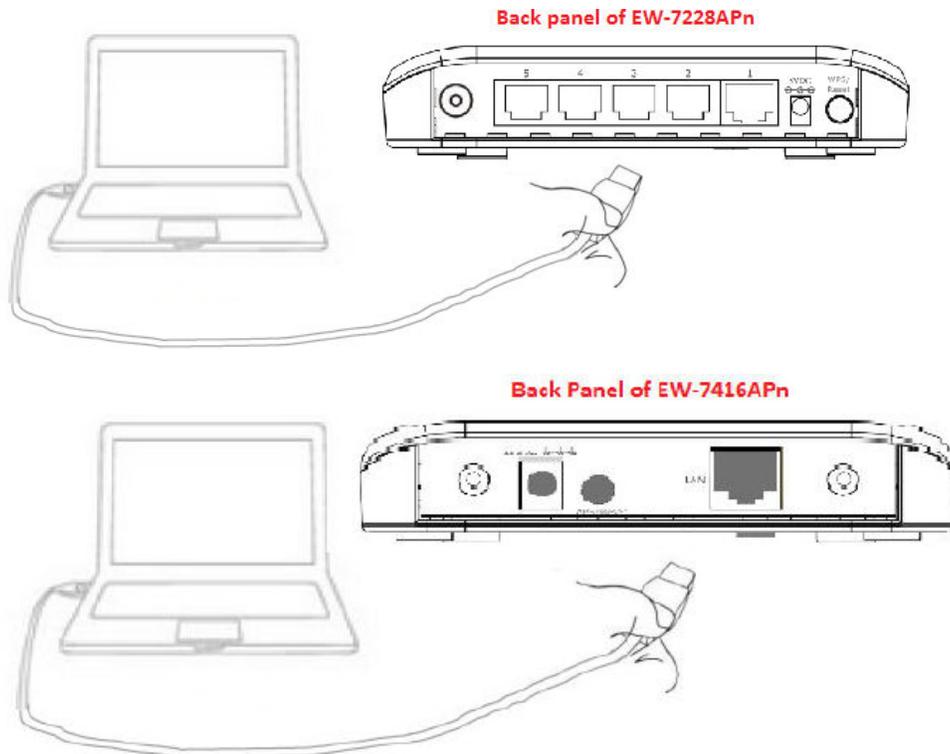
Click on **Change adapter settings** on the left menu. You will be back to the **Network connection**.

For Windows Vista users, click on **Manage Network Connections** on the left menu.

Step 3. Use an Ethernet cable to connect the extender with your computer. Do not connect Edimax device to your Wi-Fi router.

This Ethernet cable is for setup purpose only. Once the setup is completed, you can unplug the ethernet cable.

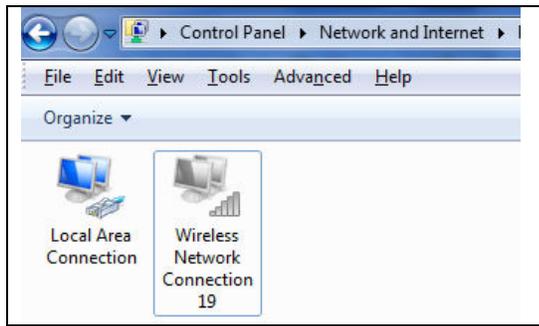
Power on the Edimax device.



Step 4. If your computer has wireless adapter, we recommend you temporarily disable wireless adapter.



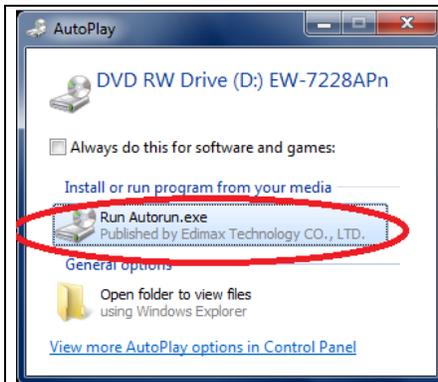
If you see **Wireless Network Connection** icon in **Network Connection** window, **right** click on **Wireless Network Connection** and click on **Disable**. The wireless network connection will be disabled.



After the extender is setup successfully (later in step 8), you can turn the **wireless connection** back on by right click on **Wireless Network Connection** and click on **Enable**.

Leave this **Network Connection** Screen open. Do not close this window.

Step 5. Insert the Edimax CD disk that came with the wireless access point.



Once you insert the CD disk in, the AutoPlay pops up.

Click on "Run Autorun.exe".

If you see a pop up window asking "Do you want to allow the following program to make changes to this computer", click on Yes to accept.

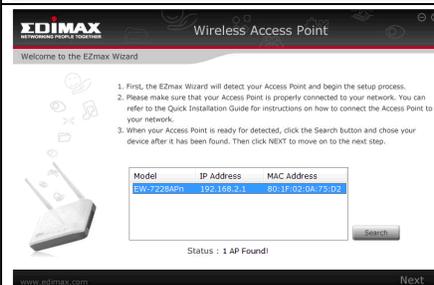
If your computer is **Windows 8**, you may experience an **Access Violation error**. You can not run the AutoRun.exe program. Instead, click on the option of "**Open folder to view files**". Get into the content of CD disc. Go into the **Setup Wizard** folder. Go into the **English** folder. Double click on **APWizard.exe** program.



Click on **Setup Utility** or **Setup Wizard** which is the first item in the setup menu.



Click on **English** to continue.



The Setup Wizard finds the Wireless Access Point and shows its current IP address 192.168.2.1. Click on Next.



The default password is 1234.

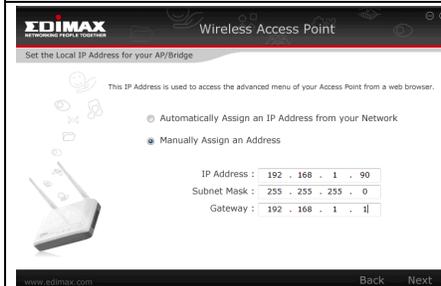
Enter 1234 as password. Click on Next.

If you ever setup a new login password, please use the new password to login.



The default IP address is 192.168.2.1.

Do NOT choose "Automatically assign an IP address from your network".



Based on information gathered in Step 1, the existing wireless network uses 192.168.1.x network. We knew there is no device using 192.168.1.90 so we give it to Access Point.

If you are not sure which address to assign to the Access Point. You can keep the default 192.168.2.1 address for the extender. Using 192.168.2.1 is fine.

Click on Next.



Select the option of "**Repeater Mode**".

Click on Next.

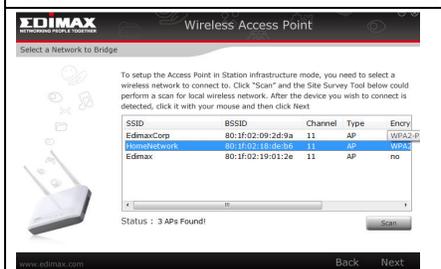


The default SSID is "Edimax AP".

You can enter any name you like into the SSID box to be the network name of the extender Wi-Fi network.

It is optional to setup new login password. We suggest you ignore these settings. This setting is for the login password, not for the Wi-Fi security password.

Click on **Next**.



The program searches for available wireless networks. If it does not detect your network, you can click on "Scan" button to search.

Scroll the screen to the right. Take a note about the channel number, Encryption, and Signal of your network. If you see your network shows encryption mixed mode of WPA-PSK/WPA2-PSK, please use WPA2 AES option in next setup screen.

If the signal strength from your existing Wi-Fi network is less than 40, you may need to move the Edimax extender to a closer place so the extender can get better signal from your Wi-Fi router.

Select your wireless network. Click on **Next**.



Enter your correct wireless security passphrase key. The security password must be the same with the wireless password of your original Wi-Fi network. Please note the password is case sensitive.

In our example, our Wi-Fi network has encryption password as 1234567890. We enter the same password in the **Pre-Shared Key** box.

Click on **Next**.



Here is the summary page for the extender's setup.

Verify the information especially the wireless security key, click on **Set**.



The extender is saving the setup and rebooting. Wait for 30 seconds.

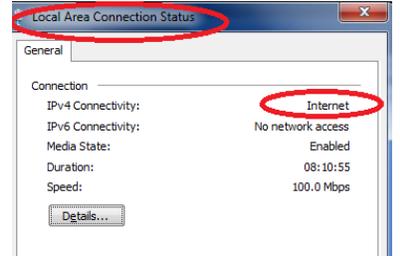
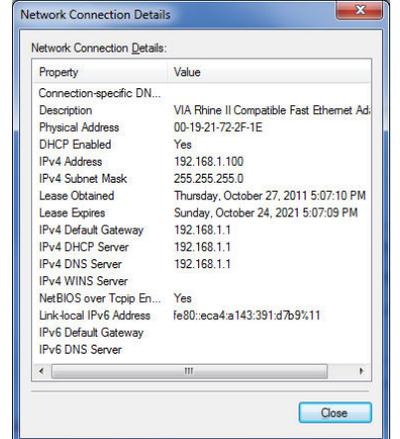


Click on **Finish**.

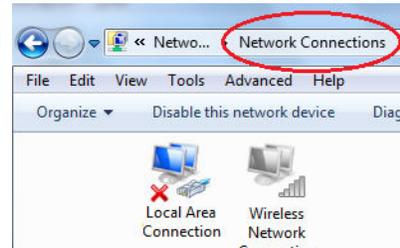


Click on **Exit** to close the CD main menu.

Step 6. Verify the success of extender setup.

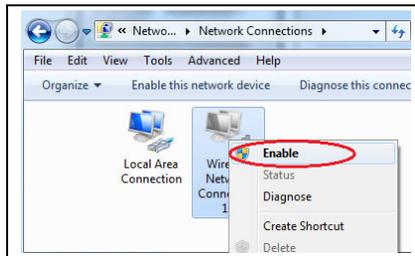
	<p>Go back to the Network Connections window.</p> <p>Double click on Local Area Connection to get into Local Area Connection Status.</p>																																		
	<p>IPV4 Connectivity indicates the Internet is connected.</p> <p>Click on Details tab.</p>																																		
 <table border="1"> <thead> <tr> <th>Property</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>Connection-specific DN...</td><td></td></tr> <tr><td>Description</td><td>VIA Rhine II Compatible Fast Ethernet Ad...</td></tr> <tr><td>Physical Address</td><td>00-19-21-72-2F-1E</td></tr> <tr><td>DHCP Enabled</td><td>Yes</td></tr> <tr><td>IPv4 Address</td><td>192.168.1.100</td></tr> <tr><td>IPv4 Subnet Mask</td><td>255.255.255.0</td></tr> <tr><td>Lease Obtained</td><td>Thursday, October 27, 2011 5:07:10 PM</td></tr> <tr><td>Lease Expires</td><td>Sunday, October 24, 2021 5:07:09 PM</td></tr> <tr><td>IPv4 Default Gateway</td><td>192.168.1.1</td></tr> <tr><td>IPv4 DHCP Server</td><td>192.168.1.1</td></tr> <tr><td>IPv4 DNS Server</td><td>192.168.1.1</td></tr> <tr><td>IPv4 WINS Server</td><td></td></tr> <tr><td>NetBIOS over Tcpip En...</td><td>Yes</td></tr> <tr><td>Link-local IPv6 Address</td><td>fe80::eca4:a143:391:d7b9%11</td></tr> <tr><td>IPv6 Default Gateway</td><td></td></tr> <tr><td>IPv6 DNS Server</td><td></td></tr> </tbody> </table>	Property	Value	Connection-specific DN...		Description	VIA Rhine II Compatible Fast Ethernet Ad...	Physical Address	00-19-21-72-2F-1E	DHCP Enabled	Yes	IPv4 Address	192.168.1.100	IPv4 Subnet Mask	255.255.255.0	Lease Obtained	Thursday, October 27, 2011 5:07:10 PM	Lease Expires	Sunday, October 24, 2021 5:07:09 PM	IPv4 Default Gateway	192.168.1.1	IPv4 DHCP Server	192.168.1.1	IPv4 DNS Server	192.168.1.1	IPv4 WINS Server		NetBIOS over Tcpip En...	Yes	Link-local IPv6 Address	fe80::eca4:a143:391:d7b9%11	IPv6 Default Gateway		IPv6 DNS Server		<p>The Ethernet adapter of your computer receives a dynamic IP address like 192.168.1.100 from the original Wi-Fi network. This indicates the extender is working properly.</p> <p>Click on Close to close the Details window.</p> <p>Click on Close to close the Local Area Connection Status window.</p> <p>You are back to Network Connection window. Leave this window open.</p>
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	<p>You may open your web browser to confirm the connection with Internet.</p> <p>If you can browser Internet, the extender setup is successful.</p>																																		

Step 7. Disconnect the Ethernet cable from your computer to the extender.

	<p>Unplug the Ethernet cable between the PC and Extender.</p> <p>The Red X appeared on Local Area Connection for Network Cable Unplugged.</p> <p>If your computer was used to wire with your router, you can connect the Ethernet cable back to the router.</p>
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Step 8.

If your computer has wireless adapter, the wireless adapter was disabled in step 3 above. In this step, please enable the wireless network connection.



Back to the Network connection Window.

Right click on Wireless Network Connection. Click on **Enable**.

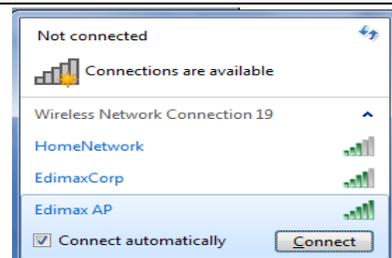
Step 9. Try Wireless Network Connection.

Use your Wireless computers or smart phones to connect to the wireless extender.



Right click on Wireless Network Connection. Click on **Connect/Disconnect**

If you have Windows XP, right click on Wireless Network Connection icon and click on **View Available Wireless Network**.



It shows three available wireless networks.

The 'HomeNetwork' is the original Wi-Fi network in our example. The 'Edimax AP' is the default name of the extender. If you changed the SSID name in step 5, you should see the extender in list.

Select your extender network and click on **Connect** button.



Enter your wireless security key of your Wi-Fi router.

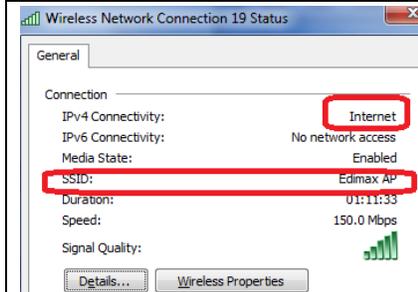
Click on **OK** button.



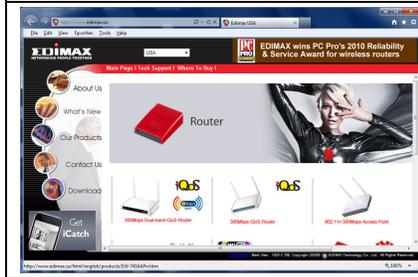
Select the network type. Click on **Close** button.



Double click on the **Wireless Network Connection** icon to get into Wireless Network Connection Status window.



IPv4 Connectivity indicates Internet is connected.
The SSID indicates the connection is through the extender.
Click on **Close**.



Congratulation, the configuration is completed. You can open your web browser to access Internet.
Once the extender is configured successfully, you may unplug the power of the extender then move the extender to a different location.

In case your configuration failed, we recommend you verify your wireless encryption password. You have to enter the same wireless encryption password in the range extender. If the extender is connected to an open Wi-Fi network which has no security, the extender has to be in open and no security.