

How to configure Access Point as a Repeater by using the Setup Wizard in CD Disk

Thanks for purchasing Edimax Wireless Access Point. We hope this instruction can help you setup the repeater in order to expand the wireless network.

1. This instruction is for Windows computer only.
2. This instruction can be applied on Edimax Wireless Access Point Series: EW-7416APn (300Mbps), EW-7228APn (150Mbps)

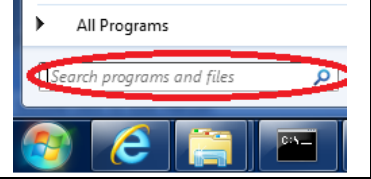
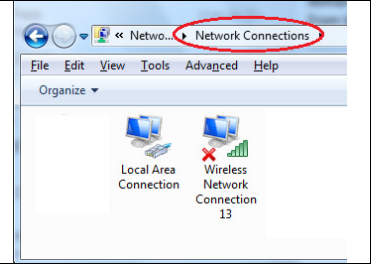
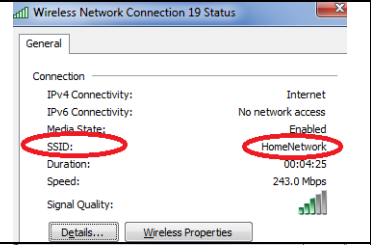
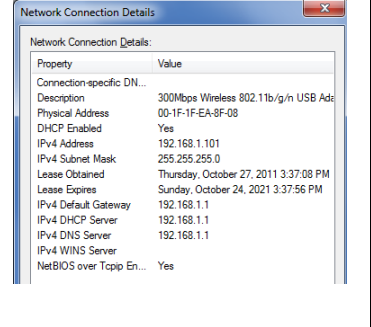
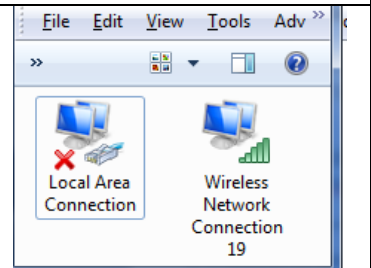
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3350 Scott Blvd., Building #15
Santa Clara, California 95054, USA
Phone 408-496-1105 • Fax 408-980-1530
www.edimax.us

Introduction

To make Access Point associate with an existing wireless router, you need to do some unique configuration for the repeater to work with your wireless network. You need to have some basic understanding about your network and enter the correct setting in setting the repeater.

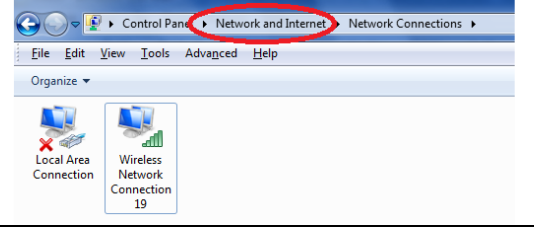
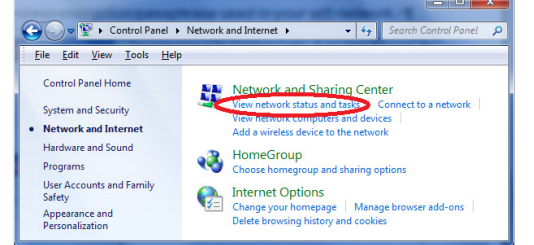
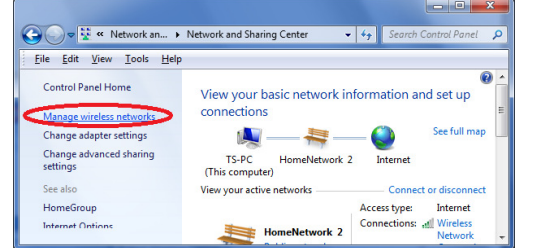
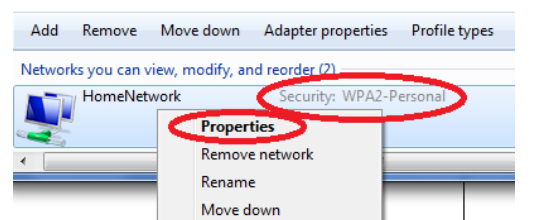
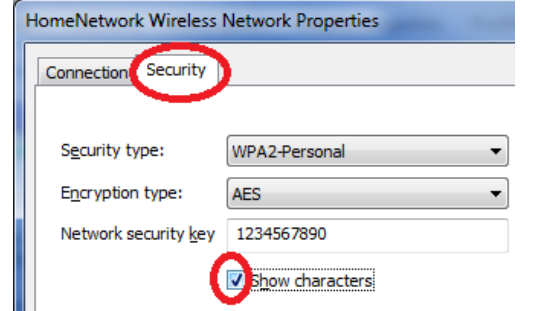
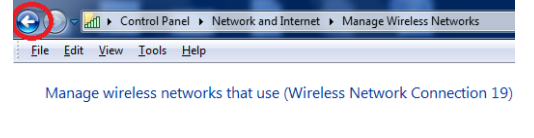
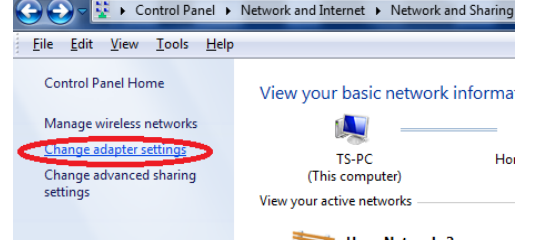
You can feel free to skip step 1 and step 2 if you already have the knowledge about your wifi network. While perform step1 and step 2, please have your computer (either wireless or wired computer) get on Internet as usual.

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

 A screenshot of the Windows Start menu search box. The search box is highlighted with a red circle and contains the text "Search programs and files".	<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>
 A screenshot of the Windows Network Connections window. The window title is "Network Connections". It shows two network connection icons: "Local Area Connection" and "Wireless Network Connection 13". The "Wireless Network Connection 13" icon has a red 'X' over it, indicating it is disabled.	<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>
 A screenshot of the "Wireless Network Connection 19 Status" window. The "General" tab is selected. The "SSID" field is highlighted with a red circle and contains the text "HomeNetwork". The "Media State" is "Enabled".	<p>If you happen to use wireless network connection, make sure it connect to the existing wifi network by checking its SSID name. The SSID should be your main wireless network.</p> <p>Click on Details button.</p>
 A screenshot of the "Network Connection Details" window. It shows a list of properties and their values. The IPv4 Address is 192.168.1.101, the IPv4 Subnet Mask is 255.255.255.0, and the IPv4 Default Gateway is 192.168.1.1.	<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 WiFi router.</p> <p>In this example, the computer has IP address 192.168.1.101 and the WiFi 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. Edimax repeater can keep the default 192.168.2.1 to work out repeater function. However, you may want to assign a new IP address to it and it could be helpful for trouble shooting purpose.</p>
 A screenshot of the Windows Network Connections window. The window title is "Network Connections". It shows two network connection icons: "Local Area Connection" and "Wireless Network Connection 19". The "Local Area Connection" icon has a red 'X' over it, indicating it is disabled.	<p>Click on Close button twice until you are back to the "Network Connection" window.</p>

Step 2. If your WiFi network is secured, you need to know your wireless password

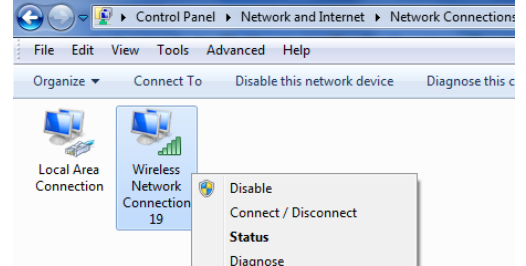
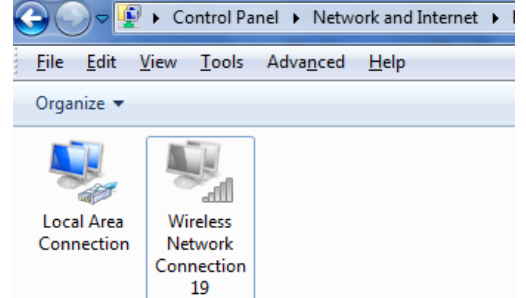
This instruction is for Windows 7/Vista Wireless computer. If you have Windows XP or have no Windows 7/Vista wireless computer, you need to log into your WiFi router's configuration page or you can check with the person who setup your WiFi network to find out your wireless security password.

	<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 profile of your WiFi network in the list. Right click on your WiFi network, click on "Properties".</p>
	<p>Click on Security tab.</p> <p>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.</p> <p>Edimax Wireless access point needs to use the <u>same</u> wireless encryption key so it could connect to the WiFi router.</p> <p>Click on Cancel button to close the window.</p>
	<p>Click on the back arrow on the top left corner to go back to "Network and Sharing Center" window.</p>
	<p>Click on "Change adapter settings" on the left menu. You will be back to the "Network connection".</p>

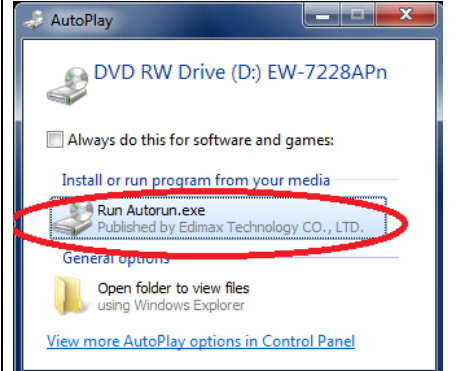
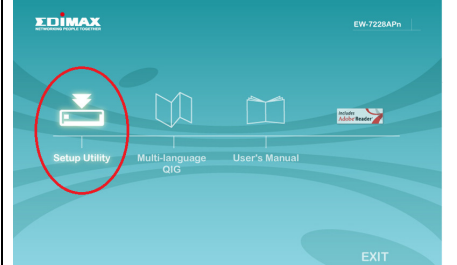
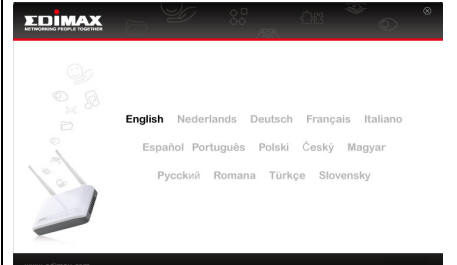
Step 3. Use an Ethernet cable to connect your computer to Edimax Wireless Access Point. Do not connect Edimax Wireless Access Point to your router.

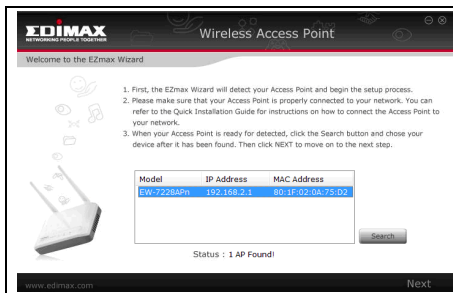
We do the initial setup by connecting Edimax to computer. We can unplug Edimax and move it after we set it up.

If your computer has wireless adapter, disable wireless adapter as below.

	<p>If you see Wireless Network Connection in “Network Connection” window, right click on it and click on “Disable”. The wireless network connection will be disabled.</p>
	<p>After the repeater is setup successfully (till the step6 on this instruction), you can turn the wireless connection back on by right click on Wireless Network Connection and click on “Enable”.</p> <p>Keep this Network Connection Screen open. Do not close this window.</p>

Step 4. Insert the Edimax CD disk that came with the wireless access point.

	<p>Once you insert the CD disk in, the AutoPlay pops up.</p> <p>Click on “Run Autorun.exe”.</p> <p>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.</p>
	<p>Click on “Setup Utility” in the main menu.</p>
	<p>Click on English to continue.</p>



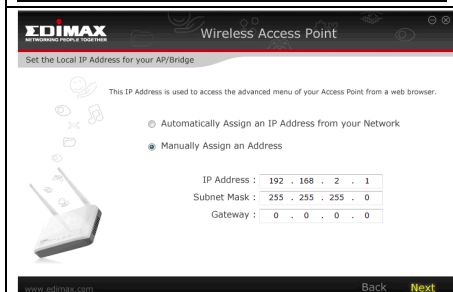
The Setup Wizard finds the Wireless Access Point and shows its current IP address 192.168.2.1. Click on Next.



The default password is 1234.

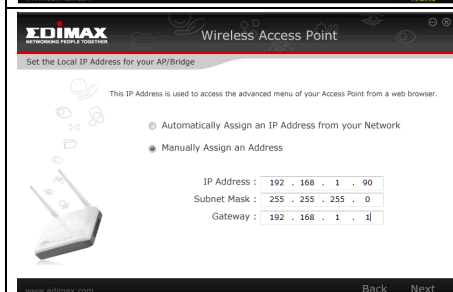
Enter 1234 as password. Click on Next.

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



The default IP address is 192.168.2.1.

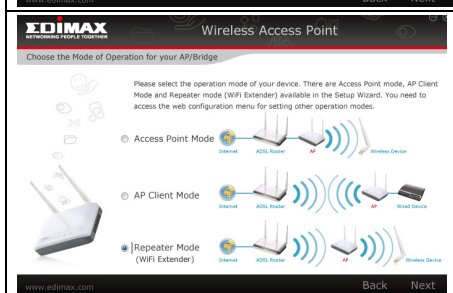
Do NOT choose "Automatically assign an IP address from your network".



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.

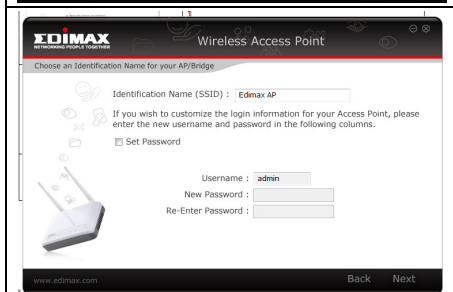
If you are not sure which address to assign to the Access Point. You can keep the default 192.168.2.1 address for the repeater. Using 192.168.2.1 is fine.

Click on Next.



Select the option of "Repeater Mode".

Click on Next.



The default SSID is "Edimax AP".

You can set your own SSID to identify the wireless network of the repeater.

It is optional to setup new login password. You can keep the default password as 1234. Do NOT enter New Password. Keep both boxes blank.

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 WPA-PSK/WPA2-PSK, please use WPA2 AES option in next setup screen. Do not use WPA2 mixed mode in next screen.

Pay attention on the channel number used by your WiFi router. If your WiFi router uses "Auto" for channel, it will switch to different channel then the repeater will get disconnected. We suggest you check the wireless setting in your WiFi router when you have a chance and make the channel a fixed number like 1, 6, or 11.

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



Enter your correct wireless security passphrase key. The security password must be the same with the password used in your WiFi network.

Our original WiFi network has encryption password as 1234567890. We enter the same password into the repeater.

Click on **Next**.



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

Click on **Set**.



The Access Point is saving the setup. In a few seconds, it reboots the repeater.

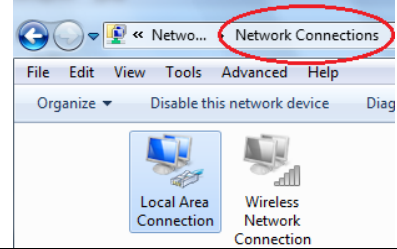
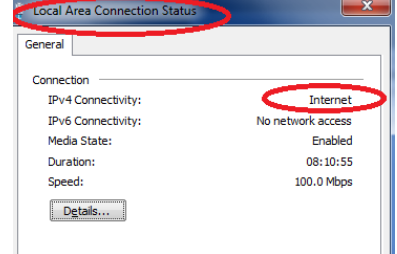
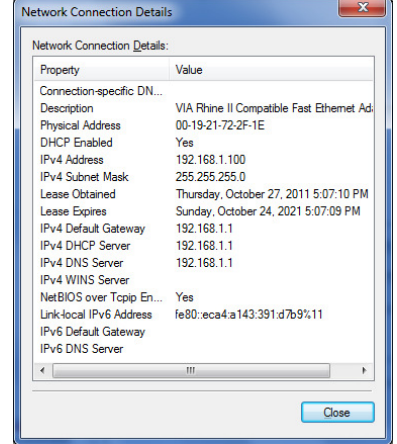
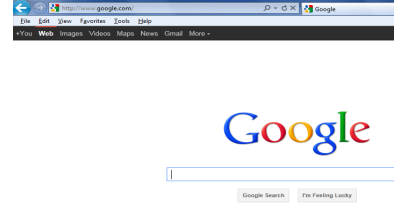


Click on **Finish**.

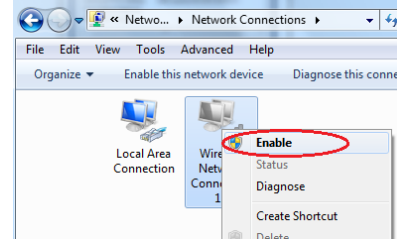


Click on **Exit** to close the CD main menu.

Step 5. Verify the Local Area Connection.

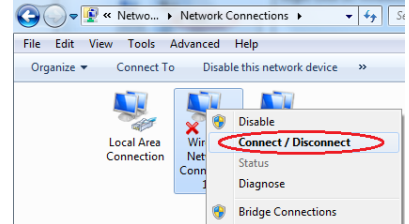
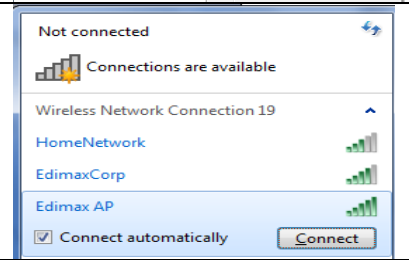
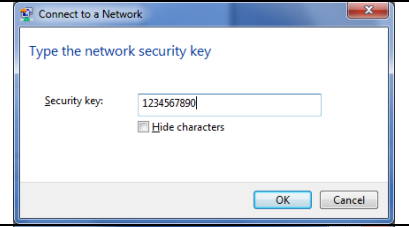
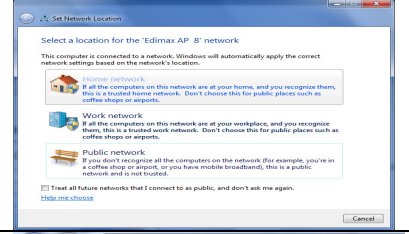
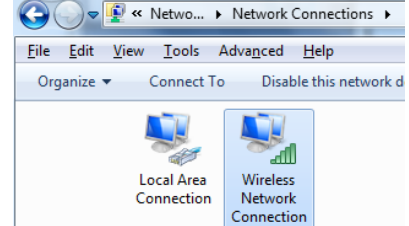
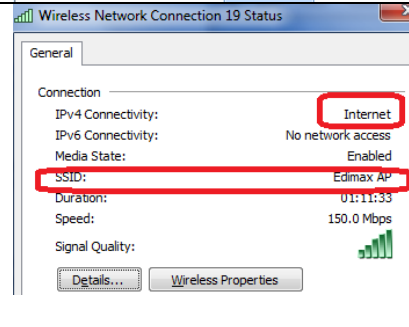
	<p>Go back to the Network Connections window.</p> <p>The Wireless Network Connection is disabled.</p> <p>Double click on Local Area Connection to get into Local Area Connection Status.</p>
	<p>IPV4 Connectivity indicates the Internet is connected.</p> <p>Click on Details tab.</p>
	<p>The Ethernet adapter obtained IP address 192.168.1.100 from the main WiFi network. This indicates the Repeater setup is working properly.</p> <p>Click on Close.</p> <p>Go back to Network Connection window. Keep the Network Connection Window open.</p>
	<p>You may open your web browser to confirm the connection with Internet.</p> <p>If you can browser Internet, the repeater setup is successful. You can swap and plug in your preferred Ethernet devices to the repeater and get on Internet.</p>

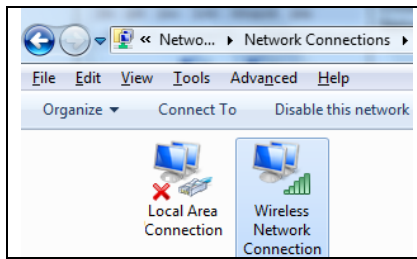
Step 6. If your computer has wireless adapter, the wireless adapter was disabled in step 3 above. In this step, please enable the wireless network connection.

	<p>Back to the Network connection Window.</p> <p>Right click on Wireless Network Connection. Click on Enable.</p>
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Step 7. Try Wireless Network Connection.

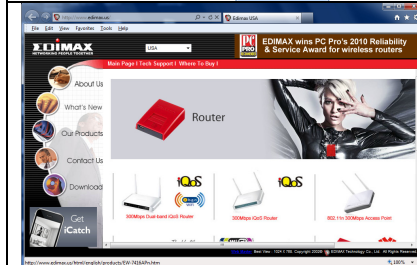
Use your Wireless computers or smart phones to connect to the wireless repeater.

	<p>Right click on Wireless Network Connection. Click on “Connect/Disconnect”</p> <p>If you have Windows XP, right click on Wireless Network Connection icon and click on “View Available Wireless Network.”</p>
	<p>It shows three available wireless networks.</p> <p>The ‘HomeNetwork’ is the original WiFi network. The ‘Edimax AP’ is the default name of the repeater. If you use a different SSID name for repeater, you should see it available to connect to.</p> <p>Select your repeater and click on Connect button.</p>
	<p>Enter your wireless security key. Click OK button.</p>
	<p>Select the network type. Click on Close button.</p>
	<p>Double click on the Wireless Network Connection icon to get Wireless Network Connection Status.</p>
	<p>IPv4 Connectivity indicates Internet is connected.</p> <p>The SSID indicates the connection is through the repeater.</p> <p>Click on Close.</p>



Unplug the Ethernet cable between the PC and Extender.

The Red X appeared on Local Area Connection



Congratulation, the configuration is completed. You can open your web browser to access Internet.

Once the repeater is configured successfully, you may move the repeater to a desired 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 repeater in order to make connection with the WiFi router. The wireless encryption password is case sensitive.