



September 1, 2020

Adding a Second Router to your Network

Summary: When connecting two buildings with the EZ-Bridge® it is sometimes desired to have a second wireless router in building 2 in order to provide wireless connectivity in the second building. For the purpose of this discussion we'll call the router that is connected to the internet the Main Router and the second router we'll call the Remote Router.

Step 1

You need to determine the Subnet Mask and the IP address of your Main router. Launch a command prompt on Windows and type "ipconfig/all". The value you are looking for is under Default Gateway. Mac users should launch the Terminal app and type "ifconfig |grep inet".

Copy and paste the Default Gateway IP address into a browser address bar. Now you need to enter the username and password of your Main router to access the settings.

Step 2

Select Wireless Settings and write down the channel, Wireless mode, and the SSID. Make sure to note your passwords and security mode (WPA2, WPA, or Mixed). At this point, you can proceed to configure the second router.

Reset the second router to factory default settings and connect it to your computer via Ethernet cable to one of the LAN or Ethernet ports. Of course, the router needs to be turned on and not connected to anything but your computer.



Step 3

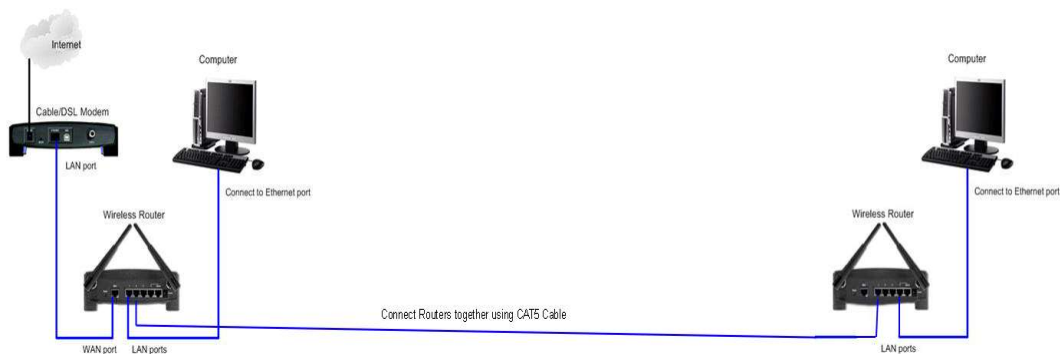
Log into your 2nd router and once inside the settings, change all the Wireless values to what you want your remote site to be. These include the frequency or channel, the Wireless mode, and the security mode. The SSID should be different on the remote router so it is easier for you to distinguish between the two routers. And make sure you do not use the same frequency or channel in more than one location

Step 4

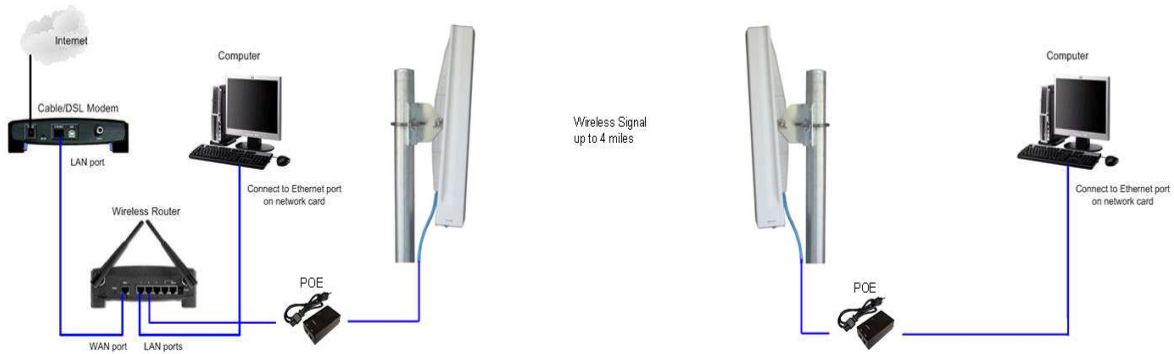
Navigate to LAN under Setup. You need to change the IP address of the second router to static address and assign any free address to it from your 1st routers subnet. For example, if the IP address on your main router is 192.168.0.1, assign 192.168.0.2 to the second router.

Don't forget that the routers need to have the same Subnet mask (usually 255.255.255.0). You need to disable the DHCP Server on the second router because your main router needs to assign IP addresses to all connected devices. Once you are done, hit Save and exit the browser.

Connecting the Two Routers



With configuration out of the way, it's time to connect the routers via an Ethernet or Cat-5 cable. The main router usually has 5 ports, and the WAN port should be hooked up to an Internet Service Provider modem. Connect the 2nd router with an Ethernet cable from a LAN port on it to a LAN port on the main router. Connect your computer to one of the other LAN ports on the 2nd router to see if you have internet.



If you do, then put the bridge in place with Side A at source and Side B on the remote site. Choose one of the available LAN ports on the main router and make the connection to radio side A on LAN side of the power injector, and on the B or remote side from the LAN side of the injector to directly to your computer. Verify your connection.



Then you are ready to connect the router you have just configured by placing the Ethernet cable from the LAN side of your B unit to a LAN port on your 2nd router.