




NETGEAR WG102 ProSafe 802.11g Wireless Access Point Installation Guide

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NETGEAR WG102 ProSafe 802.11g Wireless Access Point



Start Here

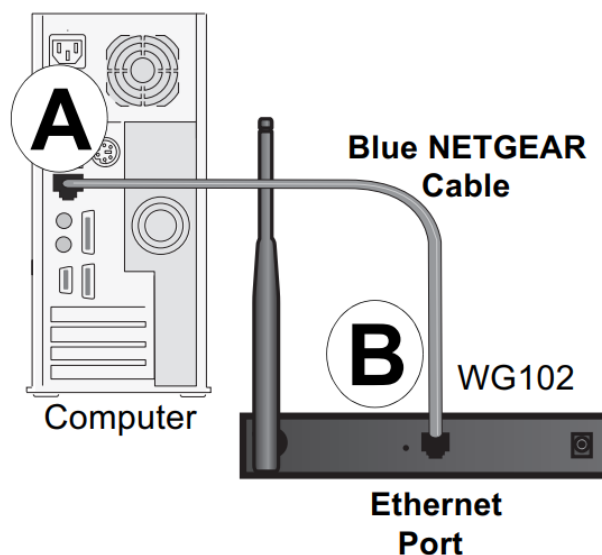
Please refer to the Reference Manual on your Resource CD for instructions on advanced configuration options.

- **Estimated Completion Time:** 30 minutes.
- **Tip:** Before mounting the WG102 in a high location, first set up and test the WG102 to verify wireless network connectivity.

First, Set Up the WG102

Connect the wireless access point to your computer.


- a. Unpack the box and verify the contents. Prepare a PC with an Ethernet adapter. If this PC is already part of your network, record its
- b. TCP/IP configuration settings. Configure the PC with a static IP address of 192.168.0.210 and 255.255.255.0 as the Subnet Mask.



- c. Connect an Ethernet cable from the WG102 to the PC (point A in the illustration).

- d. Securely insert the other end of the cable into the WG102 Ethernet port (point B in the illustration).
- e. Turn on your computer, connect the power adapter to the WG102 and verify the following:
 - **Power:** The power light should be lit. If the power light is not lit, check the connections and check to see if the power outlet is controlled by a wall switch that is turned off.
 - **Test:** The test light blinks when the WG102 is first turned on.
 - **LAN:** The LAN light on the WG102 should be lit (amber for a 10 Mbps connection and green for a 100 Mbps connection). If not, make sure the Ethernet cable is securely attached at both ends.
 - **Wireless:** The WLAN light should be lit.

Configure LAN and wireless access.

- a. Configure the WG102 Ethernet port for LAN access.
 - Connect to the WG102 by opening your browser and entering <http://192.168.0.229> in the address field.
- 
- When prompted, enter admin for the user name and password for the password, both in lower case letters.
 - Click the Basic Settings link and configure the IP Settings for your network.
- b. Configure the wireless interface for wireless access. See the online help or the Reference Manual for full instructions.
- c. Test wireless connectivity using a PC with a wireless adapter configured according to the wireless settings you just set in the WG102 to establish a wireless connection to the WG102.

Now that you have finished the setup steps, you are ready to deploy the WG102 in your network. If needed, you can now reconfigure the PC you used in step 1 back to its original TCP/IP settings.

Deploy the WG102

1. Disconnect the WG102 and position it where you will deploy it. The best location is elevated, such as wall mounted or on the top of a cubicle, at the center of your wireless coverage area, and within line of sight of all the mobile devices.
2. Position the antenna. Vertical positioning provides the best side-to-side coverage. Horizontal positioning provides the best top-to-bottom coverage.
3. Connect an Ethernet cable from your WG102 Access Point to a LAN port on your router, switch, or hub.
4. Connect the power adapter to the wireless access point and plug the power adapter into a power outlet. The PWR, LAN, and Wireless LAN lights should light up.

Tip: The WG102 supports Power Over Ethernet (PoE). If you have a switch that provides PoE, you will not need to use the power adapter to power the WG102. This can be especially convenient when the WG102 is installed in a high location far away from a power outlet.

Now, Verify Wireless Connectivity

Using a computer with an 802.11g or 802.11b wireless adapter, verify connectivity by using a browser such as Netscape® or Internet Explorer to connect to the Internet, or check for file and printer access on your network.

Note: If you cannot connect, see to Troubleshooting Tips in this guide or the Reference Manual on the Resource

Troubleshooting Tips

Here are some tips for correcting simple problems you may have.

No lights are lit on the access point.

The access point has no power.

- Make sure the power cord is connected to the access point and plugged in to a working power outlet or power strip.
- Make sure you are using the correct NETGEAR power adapter supplied with your access point.

The Ethernet light is not lit.

There is a hardware connection problem.

- Make sure the cable connectors are securely plugged in at the access point and the network device (hub, switch, or router).
- Make sure the connected device is turned on.

The WLAN light is not lit.

The access point's antennas are not working.

- If the Wireless LAN activity light stays off, disconnect the adapter from its power source and then plug it in again.
- Make sure the antennas are tightly connected to the WG102.
- Contact NETGEAR if the Wireless LAN light remains off.

I cannot configure the access point from a browser.

Check these items:

- The WG102 is properly installed, LAN connections are OK, and it is powered on. Check that the LAN port LED is green to verify that the Ethernet connection is OK.
- If you are using the NetBIOS name of the WG102 to connect, ensure that your PC and the WG102 are on the same network segment or that there is a WINS server on your network.
- If your PC uses a Fixed (Static) IP address, ensure that it is using an IP Address in the range of the WG102. The WG102 default IP Address is 192.168.0.229 and the default Subnet Mask is 255.255.255.0. The WG102 default setting is for a static IP address. If the network where you are connecting it is using DHCP, configure it accordingly. See the Reference Manual on the Resource CD for ProSafe Wireless Access Point for more details.

I cannot access the Internet or the LAN with a wireless-capable computer.

There is a configuration problem. Check these items:

- You may not have restarted the computer with the wireless adapter to have TCP/IP changes take effect. Restart the computer.
- The computer with the wireless adapter may not have the correct TCP/IP settings to communicate with the

network. Restart the computer and check that TCP/IP is set up properly for that network. The usual setting for Windows on the Network Properties is set to "Obtain an IP address automatically."

- The access point's default values may not work with your network. Check the access point default configuration against the configuration of other devices in your network.
- For full instructions on changing the access point's default values, see the Reference Manual on the Resource CD for ProSafe Wireless Access Point.

Technical Support

Thank you for selecting NETGEAR products.

- To register your product, go to: <http://www.NETGEAR.com/register>
- Go to <http://www.NETGEAR.com/support> for support information.

This symbol was placed in accordance with the European Union Directive 2002/96 on the Waste Electrical and Electronic Equipment (the WEEE Directive). If disposed of within the European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive.

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FAQ's

What is the NETGEAR WG102 ProSafe 802.11g Wireless Access Point?

The NETGEAR WG102 is a ProSafe 802.11g Wireless Access Point designed to provide wireless network connectivity for various devices in a business or home environment.

What is the purpose of a wireless access point (WAP) like the WG102?

A wireless access point, such as the WG102, is used to create or extend a wireless network, allowing Wi-Fi-enabled devices to connect to a wired network.

What wireless standard does the WG102 support?

The WG102 typically supports the 802.11g wireless standard, providing data transfer speeds of up to 54 Mbps.

Is this access point compatible with both 2.4 GHz and 5 GHz frequencies?

The WG102 typically operates on the 2.4 GHz frequency band, so it may not support the 5 GHz frequency commonly used for dual-band Wi-Fi.

What is the range or coverage area of the WG102 access point?

The coverage area of the WG102 can vary based on factors like the environment and antenna configuration. Check the product specifications for coverage details.

Does the WG102 support Power over Ethernet (PoE) for easy installation?

Yes, the WG102 often supports Power over Ethernet (PoE), which allows for both data and power to be delivered through a single Ethernet cable, simplifying installation.

Can multiple WG102 access points be deployed to create a larger wireless network?

Yes, multiple WG102 access points can be deployed to create a larger wireless network and provide seamless coverage in larger areas.

What security features are included with the WG102 to protect the wireless network?

The WG102 typically includes security features like WPA and WEP encryption to secure the wireless network and prevent unauthorized access.

Is there a web-based management interface for configuring the WG102 access point?

Yes, the WG102 often includes a web-based management interface that allows users to configure and manage the access point's settings.

What is the maximum number of concurrent users supported by the WG102?

The maximum number of concurrent users that the WG102 can support may vary. Refer to the product documentation for specific user capacity details.

Does the WG102 access point support Quality of Service (QoS) for prioritizing network traffic?

Yes, the WG102 often supports Quality of Service (QoS) features, allowing for the prioritization of network traffic to optimize performance for specific applications.

What is the warranty coverage for the NETGEAR WG102 ProSafe 802.11g Wireless Access Point?

Warranty terms may vary, so it's advisable to check the specific warranty information provided by NETGEAR or the retailer when purchasing the access point.

References: [NETGEAR WG102 ProSafe 802.11g Wireless Access Point – Device report](#)