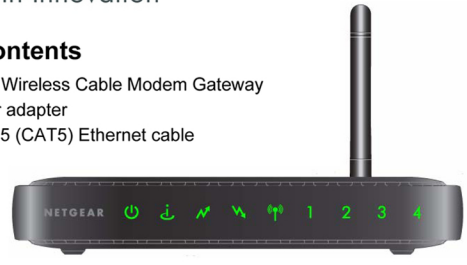
NETGEAR®

Installation Guide

Connect with Innovation™

Package Contents

- CGD24G Wireless Cable Modem Gateway
- AC power adapter
- Category 5 (CAT5) Ethernet cable



CGD24G Wireless Cable Modem Gateway

Follow these quick steps to install your CGD24G gateway. These instructions assume that you will use an Ethernet cable to connect a computer to the gateway.

Before You Begin...

Make sure that you have the following:

- A computer with an active Ethernet port with DHCP enabled.
- An active account with your Internet Service Provider (ISP) for data services.
- Depending on how your ISP set up the Internet account, you might need one or more of these configuration settings to connect the gateway to the Internet:
  - Host and Domain Names
  - ISP Domain Name Server (DNS) Addresses
- Each computer that will connect to the gateway must have either an installed Ethernet Network Interface Card (NIC), USB Host port, or 802.11b or 802.11g wireless adapter.

Next, Connect the Gateway

To connect the gateway:

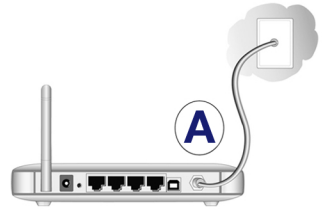
1. Turn off your computer. Use the coaxial cable provided by your cable company to connect the CGD24G gateway cable port (**A**) to your cable line splitter or outlet.
2. Connect the Ethernet cable (**B**) from your CGD24G gateway's LAN port to the Ethernet adapter in your computer.
3. Plug in your CGD24G gateway and wait about 60 seconds for the LEDs to stop blinking.
4. Verify the following:

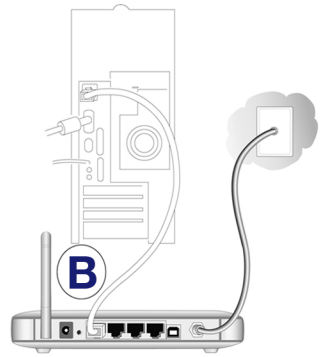
   The power LED is lit after turning on the gateway.

   The cable link LED is solid green, indicating that the gateway initialization is complete and a link has been established to the cable network.
5. Now, turn on your computer.

   If software usually logs you in to your Internet connection, do not run that software or cancel it if it starts automatically.

   One or more local LED(s) on the front of the gateway should be lit for any connected computers.





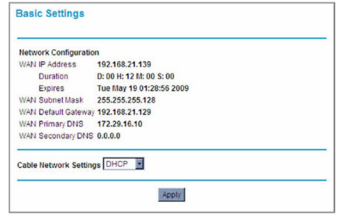
Then, Connect to the Internet

To configure the gateway and connect to the Internet:

1. Using the computer that you first used to access your cable modem Internet service, connect to the gateway by typing **http://192.168.0.1** in the address field of your Internet browser.

2. For security reasons, the gateway has its own user name and password. When prompted, enter **admin** for the user name and **password** for the password. After logging in, you will see the Gateway Status screen.
3. Select **Basic Settings** on the upper left of the main menu of the gateway. The Basic Settings screen displays.
4. Verify that the **Cable Network Settings field** is set to **DHCP**, which is the default setting.

   When the Cable Network Settings are set to DHCP, the network configuration settings are automatically downloaded from your ISP.



5. If you changed the **Cable Networks Settings** field, you must click **Apply** so that the change takes effect.
6. Verify your Internet connection.

Note: Some cable Internet companies require you to notify them when you replace the original cable modem so that they can register the MAC addresses.

Using Push 'N' Connect (WPS) to Configure Your Wireless Network

If the wireless clients in your network support Wi-Fi Protected Setup (WPS), you can use this feature to automatically connect the wireless client securely and easily to the gateway. WPS uses the SSID that is specified in the Wireless Settings screen.

To initiate WPS using the push button on the gateway:

1. From the gateway main menu, select Wireless Settings.
2. You can either use the default SSID (Wireless) or type in a different SSID. In the Security Option section of the screen, select one of the following: **Disable**, **WPA-PSK**, or **WPA2-PSK**. Fill in any required fields and then click **Apply**.
3. From the gateway main menu, select WPS Settings.
4. In the A**utomatic Security Configuration field**, select **WPS**.
5. Press the WPS button on the side of the gateway for over 5 seconds.

   The green wireless status LED on the front of the gateway begins to blink. While the LED is blinking, you have 2 minutes to enable WPS on the client that you are trying to connect to the gateway.
6. On the wireless client, follow its specific networking instructions to enable WPS, to allow it to connect to the gateway.

   The gateway's green wireless status LED ceases blinking and turns solid green when one of these conditions occurs:

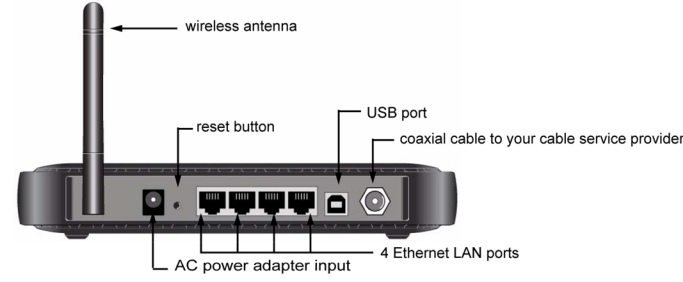
   - The gateway and the client establish a wireless connection.
   - The 2-minute window period expires for establishing a WPS connection.

Note: If your network contains wireless clients that are not WPS-capable, then set up your wireless network and wireless security manually as described in the *User Manual* on the *Resource CD*.

LED	Description
Power	• **On**: Power is supplied to the gateway, and the gateway has completed its initialization. • **Off**: Power is not supplied to the gateway.
Cable Link	• **On (green)**: Configuration of the cable interface by your cable service provider is complete. • **Blink**: Both downstream and upstream links are established, but before configuration of cable interface is complete. • **Off**: Configuration of the cable interface is still in progress. The downstream and upstream links have not been established yet.
Upstream Link	• **On**: The gateway has completed its upstream ranging operation. • **Blink**: The gateway has just powered up or it is getting upstream parameters or performing its upstream ranging operation. • **Off**: The gateway's self-test and initialization is complete but it has not completed the downstream scan.
Downstream Link	• **On**: The gateway has completed its downstream scan, and is performing upstream operations, is completing configuration of the cable interface, or is fully functional with its cable interface. • **Blink**: The gateway has just powered up or it is performing a downstream scan. • **Off**: The gateway's self-test and initialization is complete but it has not completed the downstream scan.
Wireless	• **On**: The wireless access point is operating normally. • **Blink**: Data is being transmitted or received on the wireless interface. • **Blink in a fast pattern**: The gateway attempts to establish a connection to a wireless client through Wi-Fi Protected Setup (WPS). • **Off**: The wireless access point is disabled.
LAN (Local Area Network) 4	• **On (green)**: The port has detected link with a 100 Mbps device. • **Blink (green)**: Data is being transmitted or received at 100 Mbps. • **On (yellow)**: The Local port has detected link with a 10 Mbps device. • **Blink (yellow)**: Data is being transmitted or received at 10 Mbps. • **Off**: No link is detected on this port.

Router Rear Panel

The rear panel of the CGD24G gateway contains the connections identified below:



Do not stack or place near heat source

Warning: Do not install this device on top of any other electrical equipment or install any other equipment on top of this device. Keep this device away from any heat sources such as direct sunlight, heaters, radiators, or other A/V receivers or devices that emit heat.sources such as direct sunlight, heaters, radiators, or other A/V receivers or devices that emit heat.

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.