



High Speed Cable Modem

Model CM500

User Manual



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202-11477-05

350 East Plumeria Drive
San Jose, CA 95134
USA

Support

Thank you for purchasing this NETGEAR product. You can visit www.netgear.com/support to register your product, get help, access the latest downloads and user manuals, and join our community. We recommend that you use only official NETGEAR support resources.

If you are experiencing trouble installing your cable modem, contact NETGEAR at 1-866-874-8924. If you are experiencing trouble connecting your router, contact the router manufacturer.

Conformity

For the current EU Declaration of Conformity, visit http://kb.netgear.com/app/answers/detail/a_id/11621.

Compliance

For regulatory compliance information, visit <http://www.netgear.com/about/regulatory>.

See the regulatory compliance document before connecting the power supply.

Trademarks

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Hardware and Internet Setup

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The NETGEAR CM500 High Speed Cable Modem provides a connection to high-speed cable Internet with speeds up to 680 Mbps.¹ The cable modem is certified by all major cable Internet providers. A Gigabit Ethernet port provides fast access and downloads. The cable modem supports the assignment of IPv4 and IPv6 addresses by cable Internet providers.

This chapter covers the following topics:

- *Unpack Your Cable Modem*
- *Front Panel*
- *Back Panel*
- *Product Label*
- *Install and Activate Your Cable Modem*
- *Connect Your Cable Modem to a Router After Installation and Activation*

Note: For more information about the topics covered in this manual, visit the support website at <http://support.netgear.com>.

1. Maximum rate is derived from DOCSIS 3.0 specifications and actual throughput varies depending on your Internet subscription with your provider.

Unpack Your Cable Modem

Your package contains the following items.

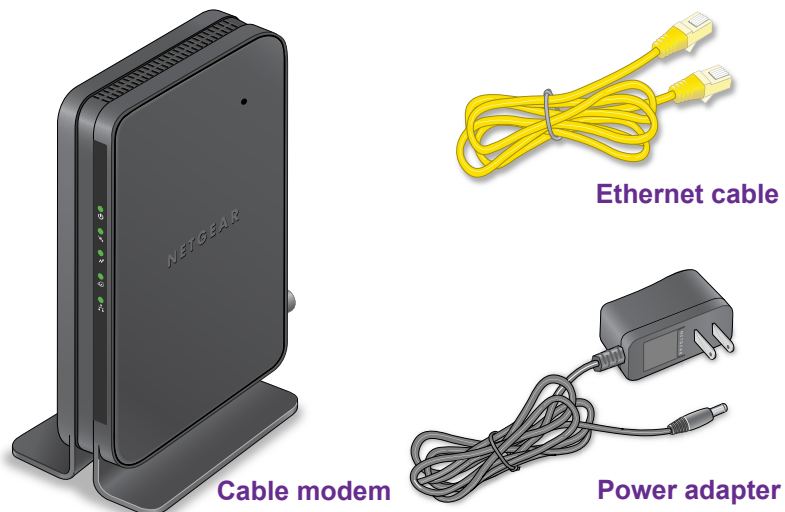


Figure 1. Package contents

Front Panel

The cable modem provides status LEDs on the front.

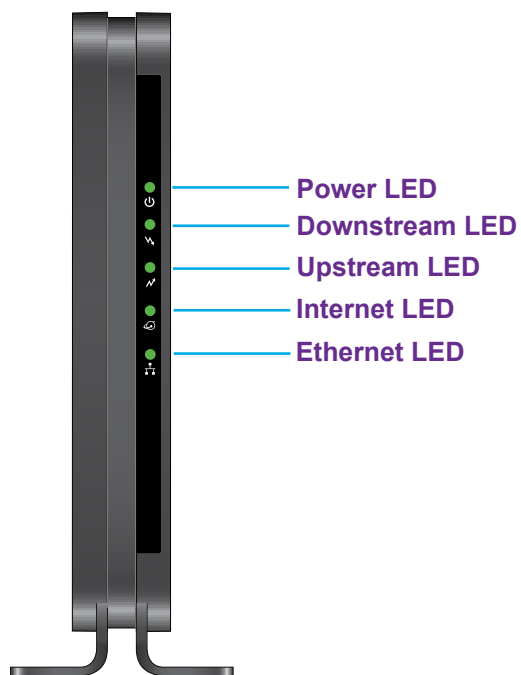


Figure 2. Cable modem front view

You can use the LEDs to verify status and connections. The following table lists and describes each LED on the front panel of the cable modem.

Table 1. LED descriptions

LED	Icon	Description
Power		Green. Power is supplied to the cable modem. Off. No power is supplied to the cable modem. Red. The cable modem is too warm and might overheat. For more information about this condition, see Use LEDs to Troubleshoot on page 23.
Downstream		Solid amber. One downstream channel is locked. Blinking amber. The cable modem is scanning for a downstream channel. Solid green. More than one downstream channel is locked. Off. No downstream channel is locked.
Upstream		Solid amber. One upstream channel is locked. Blinking amber. The cable modem is scanning for an upstream channel. Solid green. More than one upstream channel is locked. Off. No upstream channel is locked.
Internet		Solid green. The cable modem is online. Blinking green. The cable modem is synchronizing with the cable Internet provider's cable modem termination system (CMTS). Off. The cable modem is offline.
Ethernet		Green. A powered-on device is connected to the Ethernet port at 1000 Mbps. Amber. A powered-on device is connected to the Ethernet port at 10/100 Mbps. Blinking green or amber. The Ethernet port is processing traffic. Off. No device is connected to the Ethernet port.

Back Panel

The back panel provides the connections and button shown the following figure.

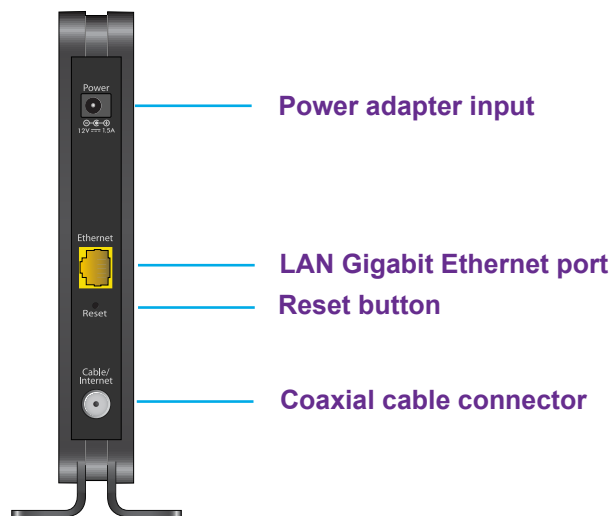


Figure 3. Cable modem back panel

Product Label

The product label on the bottom of the cable modem displays the serial number and MAC address of the cable modem and login information, including the default IP address, default user name, and default password.

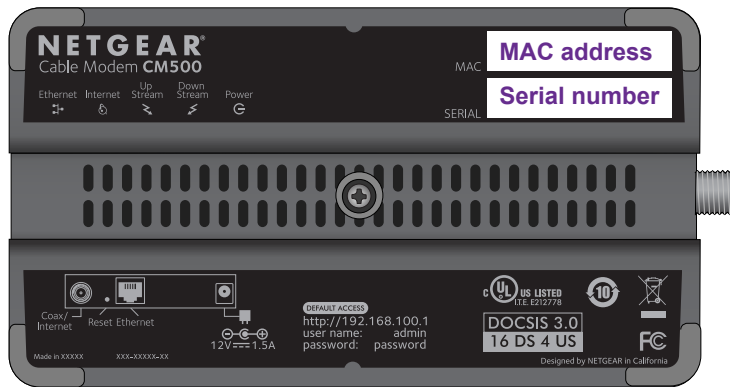


Figure 4. Product label

Install and Activate Your Cable Modem

The cable modem provides a connection between your cable Internet provider's network and your computer, router, or WiFi router.

Connect Your Cable Modem to a Computer

During the installation and activation, you must connect the cable modem directly to a computer. After installation and activation, you can connect the cable modem to a router (see [Connect Your Cable Modem to a Router After Installation and Activation](#) on page 11).

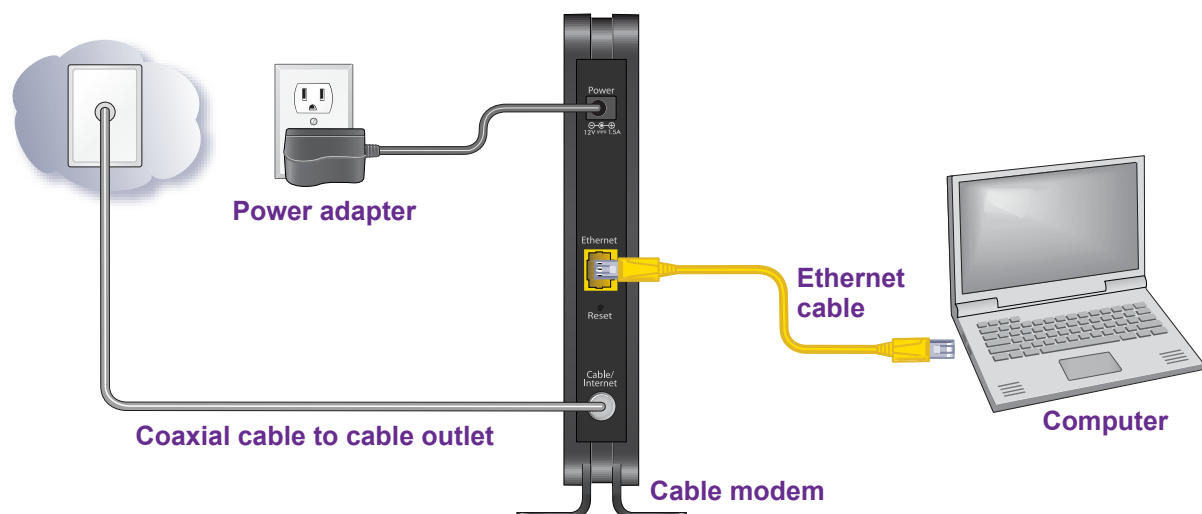


Figure 5. Connect the cable modem directly to a computer

Note: Before you connect your cable modem and contact your cable Internet provider, collect your cable account number, account phone number, and login information (your email address or user name and password).

➤ **To connect your cable modem directly to a computer:**

1. Turn off existing modems and routers.

If you are replacing a modem that is currently connected in your home, unplug the modem and plug the new cable modem into the same outlet.

2. Connect a coaxial cable.

Use the coaxial cable that your cable company provided to connect the cable port on the cable modem to a cable wall outlet or a line splitter. Make sure that the cable is tightly connected.

Note: If Charter is your cable Internet provider, Charter recommends connecting your cable modem directly to a cable wall outlet. If you must use a splitter, use a splitter that is rated at 3.5 dBmV.

Note: If Comcast XFINITY is your cable Internet provider, Comcast XFINITY recommends connecting your cable modem directly to a cable wall outlet.

3. Connect the power adapter provided in the package to the cable modem and plug the power adapter into an electrical outlet.

When the startup procedure is completed, the Power LED lights green .

4. Wait for the cable modem to come online.

It takes at least 10 minutes for the cable modem to come online on the network. During this time, the LED behavior is as follows:

- The Downstream LED lights amber  when one downstream channel is locked.
- The Downstream LED lights green  when more than one downstream channel is locked.
- The Upstream LED lights amber  when one upstream channel is locked.
- The Upstream LED lights green  when more than one upstream channel is locked.
- After the cable modem registers with your cable Internet provider, the Internet LED lights green .

5. Use the Ethernet cable provided in the package to connect the Gigabit Ethernet port on the cable modem to an Ethernet port on the computer.
6. Reboot the computer.

Even though an Internet connection is established, Internet service is available only after you activate it up with your cable Internet provider.

For information about how to activate your Internet service, see [Activate Your Internet Service](#) on page 9.

Activate Your Internet Service

➤ To activate your Internet service:

1. Visit your cable Internet provider's website and follow the onscreen instructions to activate your Internet service.

Cable Internet Provider	Contact Information
Bright House Networks	http://support.brighthouse.com 1-866-898-9101
Cable One	http://www.cableone.net/ 1-877-692-2253 (877-MYCABLE)
Cablevision	http://www.cablevision.com https://install.optimum.com/JointInstall/ Telephone number depends on your region. Note: When you attempt to contact Cablevision online, you are directed to the Optimum web page. Optimum is a brand name of Cablevision.
Charter	https://install.charter.com 1-888-438-2427
Comcast XFINITY	http://www.comcast.com/activate http://www.xfinity.com/internetsetup http://www.xfinity.com/internetsupport 1-800-XFINITY (1-800-934-6489)
Cox	https://activation.cox.net/selfactivation/start.cox 1-888-556-1193
Mediacom	https://maestro.mediacomcc.com/walledgarden/page/login.jsp 1-844-2SIMPLE (1-844-274-6753)
Time Warner Cable	https://elb02.activatemymodem.com/authentication 1-800-892-2253

Note: The contact information listed might change. You can also find the contact number in your monthly Internet service billing statement.

2. If you are unable to activate your Internet service using the instructions on your cable Internet provider's website, call your cable Internet provider and do the following:
 - a. When asked, provide your account information and provide the cable modem's model number, which is CM500, serial number, and MAC address.

The serial number and MAC address are on the product label, which is on the bottom of the cable modem.
 - b. Wait for your cable Internet provider to confirm that your cable modem is active.
 - c. If you do not get an Internet connection with the cable modem, ask your cable Internet provider to look for your cable modem online, and do one of the following depending on what your cable Internet provider tells you about your cable modem:
 - If the cable modem is not visible, your cable Internet provider can give you instructions to verify why the cable modem does not connect with your high-speed Internet service.
 - If the cable modem is visible to your cable Internet provider, reboot the cable modem. Check your online status again.

Perform a Speed Test

To determine the accurate Internet speed, visit the speed test website of your cable Internet provider and perform a speed test.

If your actual speed is lower than your subscribed speed, contact your cable Internet provider.

Connect Your Cable Modem to a Router After Installation and Activation

During the installation and activation, you must connect the cable modem directly to a computer. After installation and activation, you can connect the cable modem to a router. For more information on how to set up your router, see the documentation that came with your router.

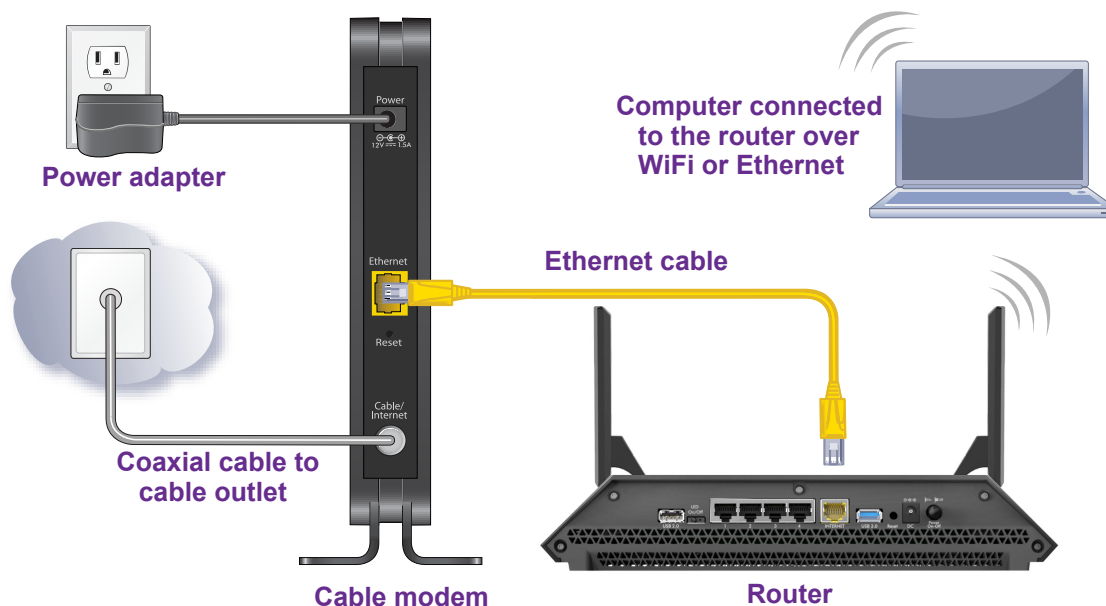


Figure 6. Connect the cable modem to a router

➤ **To connect your cable modem to a router after installation and activation:**

1. Reboot the cable modem by unplugging the power cable from the cable modem and plugging it back in.

Note: Do not disconnect the cable modem from the cable outlet.

When the startup procedure is completed, the Power LED lights green .

Wait for the Internet LED to stop blinking and light solid green .

2. Use an Ethernet cable to connect the Ethernet port on the cable modem to the WAN or Internet port on the router.
3. Power on the router.
4. Wait until the router is ready.
5. Connect a computer to the router over a WiFi connection or through an Ethernet cable to a LAN port on the router.

2 Manage and Monitor

After you set up the cable modem, you do not need to log in to the cable modem for normal operation. However, you *can* log in to the cable modem to change a very limited number of settings and monitor the cable modem. In the unlikely situation that you experience problems with the cable connection and cannot get an Internet connection, technical support might ask you to log in to the cable modem.

This chapter contains the following sections:

- *Log In to the Cable Modem*
- *View Cable Modem Initialization*
- *View Cable Modem Status*
- *View and Clear Event Logs*
- *Change the admin Password*
- *Reboot the Cable Modem*
- *Reset the Cable Modem to Factory Default Settings*
- *Change the Cable Connection Starting Frequency*

Log In to the Cable Modem

After you set up the cable modem, you do not need to log in to the cable modem for normal operation.

To log in to the cable modem, you must use a web browser such as Microsoft Internet Explorer 5.0 or later, Firefox Mozilla 2.0 or later, Safari 1.4 or later, or Google Chrome 11.0 or later.

➤ To log in to the cable modem:

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.
2. Type **http://192.168.100.1**.

A login screen displays.

3. Enter the cable modem user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home screen displays.

View Cable Modem Initialization

You can track the initialization procedure of the cable modem and get details about the downstream and upstream cable channel. The time is displayed after the cable modem is initialized.

The cable modem automatically goes through the following steps in the provisioning process:

1. Scans and locks the downstream frequency and then ranges the upstream channels.
2. Obtains a WAN IP address for the cable modem.
3. Connects to the Internet.

➤ To view the status of the cable modem initialization:

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.

2. Type **http://192.168.100.1**.

A login screen displays.

3. Enter the cable modem user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home screen displays.

4. Select **Cable Connection**.

Cable Connection

Apply Cancel

Frequency start Value
This field below allows you to modify the frequency the cable modem start with its scan during initialization and registration. Enter the new start frequency and restart the cable modem for it to take effect.

Starting Frequency

Startup Procedure

Procedure	Status	Comment
Acquire Downstream Channel	597000000 Hz	Locked
Connectivity State	OK	Operational
Boot State	OK	Operational
Security	Enabled	BPI+
IP Provisioning Mode	Honor MDD	honorMdd(4)

Downstream Bonded Channels

Channel	Lock	Status	Modulation	Channel ID	Frequency	Power	SNR	Correctables	Uncorrect
1	Locked		QAM256	7	597000000 Hz	11.3 dBmV	38.1 dB	62	0
2	Locked		QAM256	1	561000000 Hz	12 dBmV	38.7 dB	0	0
3	Locked		QAM256	2	567000000 Hz	11.8 dBmV	38.5 dB	1	0
4	Locked		QAM256	3	573000000 Hz	11.8 dBmV	38.5 dB	2	0
5	Locked		QAM256	4	579000000 Hz	11.8 dBmV	38.5 dB	8	0
6	Locked		QAM256	5	585000000 Hz	11.6 dBmV	38.3 dB	17	0

Help Center Show/Hide Help Center

The Startup Procedure section displays the initialization progress.

The Downstream Bonded Channels section displays the status of each channel.

5. To see the Upstream Bonded Channels section and system time, scroll down.

View Cable Modem Status

You can view some basic information about the cable modem.

➤ To view cable modem status:

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.
2. Type **http://192.168.100.1**.

A login screen displays.

3. Enter the cable modem user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home screen displays.

4. Select **ADVANCED**.



The Cable Information screen displays the following:

- **Hardware Version.** The version of the cable modem model.
- **Firmware Version.** The version of the cable modem firmware.
- **Cable Modem Serial Number.** The serial number of the cable modem.
- **CM Certificate.** The status of the cable modem certificate. If Not installed displays as the status, contact your cable Internet provider.
- **CM MAC.** The MAC address of the cable modem.

For information about using the **Reboot** button, see [Reboot the Cable Modem](#) on page 17.

For information about using the **Factory reset** button, see [Reset the Cable Modem to Factory Default Settings](#) on page 18.

View and Clear Event Logs

Event logs capture important cable modem events.

➤ To view and clear the event logs:

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.

2. Type **http://192.168.100.1**.

A login screen displays.

3. Enter the cable modem user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home screen displays.

4. Select **ADVANCED > Administration > Event Log**.

Event Log		
Clear Log Refresh		
Time	Priority	Description
Time Not Established	Critical (3)	Received Response to Broadcast Maintenance Request, But no Unicast Maintenance opportunities received - T4 time out
Time Not Established	Error (4)	ToD request sent- No Response received

The Event Log screen shows the following information:

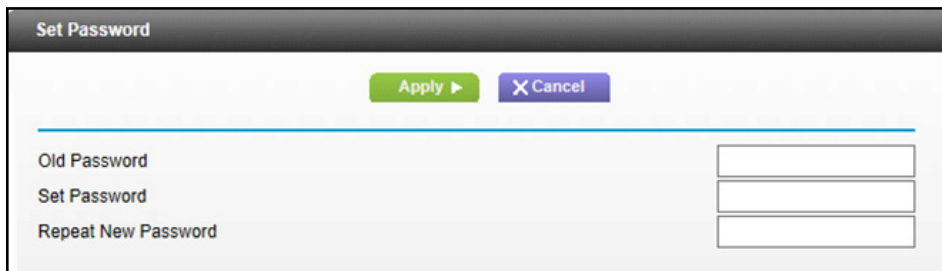
- **Time.** The time the event log entry was recorded.
The correct time displays only after the cable modem successfully connects to the cable Internet provider's network.
 - **Priority.** The severity for the event log entry.
 - **Description.** A description of the event log entry.
5. To refresh the log screen, click the **Refresh** button.
 6. To clear the log entries, click the **Clear Log** button.

Change the admin Password

You can change the default password that is used to log in to the cable modem with the user name admin.

➤ To change the password for the user name admin:

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.
2. Type **http://192.168.100.1**.
A login screen displays.
3. Enter the cable modem user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home screen displays.
4. Select **ADVANCED > Administration > Set Password**.



The 'Set Password' dialog box has a title bar with the text 'Set Password'. Below the title bar are two buttons: 'Apply' (green) and 'Cancel' (purple). Below these buttons are three input fields: 'Old Password', 'Set Password', and 'Repeat New Password'.

5. Type the old password.
6. Type the new password in the **Set Password** field.
7. Type the new password in the **Repeat New Password** field.
8. Click the **Apply** button.

Your change takes effect.

Reboot the Cable Modem

Rebooting the cable modem disconnects all computers from the cable modem's local area network (LAN). After the cable modem is finished booting and reestablishes a connection with the cable Internet provider's network, the devices reconnect to the cable modem's LAN.

➤ To reboot the cable modem:

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.

2. Type **http://192.168.100.1**.

A login screen displays.

3. Enter the cable modem user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home screen displays.

4. Select **ADVANCED**.



The 'Cable Information' screen has a title bar with a green checkmark and the text 'Cable Information'. Below the title bar is a table with the following information:

Hardware Version	C312T00-S0
Firmware Version	V1.01.02
Cable Modem Serial Number	BTA049730003E
CM Certificate	Installed
CM MAC	6c:b0:ce:d4:60:21

At the bottom of the screen are two buttons: 'Factory reset' and 'Reboot'.

5. Click the **Reboot** button.
A confirmation message displays.
6. Click the **OK** button.
The cable modem reboots.

Reset the Cable Modem to Factory Default Settings

To reset the cable modem to factory default settings, you can use either the **Reset** button on the back panel of the cable modem or the **Factory reset** software button. However, if you changed the default password to access the cable modem and lost the password, you must use the **Reset** button on the back panel.

After you reset the cable modem to factory default settings, the user name is admin, the password is password. The LAN IP address is always 192.168.100.1. You cannot change this LAN IP address.

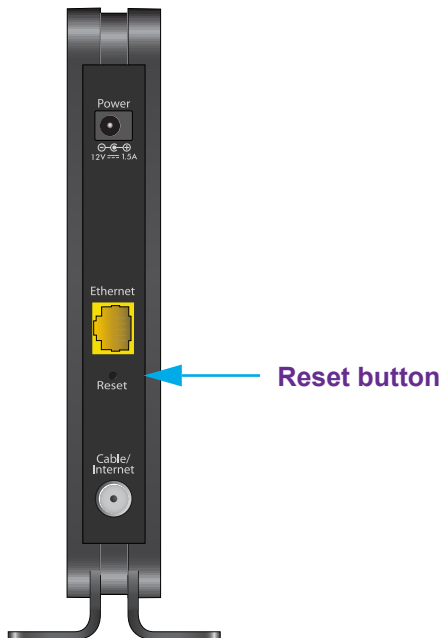
Use the Reset Button on the Back Panel



CAUTION:

This process erases all settings that you configured in the cable modem.

- **To reset the cable modem to factory default settings:**
1. Power on the cable modem.
 2. On the back of the cable modem, locate the **Reset** button.



3. Using a straightened paper clip, press and hold the **Reset** button for about seven seconds until all LEDs blink.
4. Release the **Reset** button.

The configuration is reset to factory default settings. When the reset is complete, the cable modem reboots. This process takes about one minute.



WARNING:

To avoid the risk of corrupting the firmware, do not interrupt the reset. For example, if you are connected to the web management interface, do not close the browser, click a link, or load a new page. Do not turn off the cable modem.

Use the Factory Reset Software Button



CAUTION:

This process erases all settings that you configured in the cable modem.

➤ **To erase the settings:**

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.

2. Type **http://192.168.100.1**.

A login screen displays.

3. Enter the cable modem user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home screen displays.

4. Select **ADVANCED**.

Cable Information	
Hardware Version	C312T00-S0
Firmware Version	V1.01.02
Cable Modem Serial Number	BTA049730003E
CM Certificate	Installed
CM MAC	6c:b0:ce:d4:60:21

Factory reset Reboot

5. Click the **Factory reset** button.

A confirmation message displays.

6. Click the **OK** button.

The configuration is reset to factory default settings. When the reset is complete, the cable modem reboots. This process takes about one minute.



WARNING:

To avoid the risk of corrupting the firmware, do not interrupt the reset. For example, do not close the browser, click a link, or load a new page. Do not turn off the cable modem.

Change the Cable Connection Starting Frequency

The starting frequency for the cable connection is automatically generated. For most Internet connections, you do not need to change this information.



WARNING:

Do not change the starting frequency unless your cable Internet provider instructs you to do so. Changing the starting frequency incorrectly causes serious connection and Internet problems.

➤ **To change the starting frequency:**

1. Launch a web browser from a computer that is attached over an Ethernet cable to the cable modem or from a computer that is connected to a WiFi router that is attached over an Ethernet cable to the cable modem.
2. Type **http://192.168.100.1**.
A login screen displays.
3. Enter the cable modem user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home screen displays.
4. Select **Cable Connection**.

Cable Connection

Apply Cancel

Frequency start Value
This field below allows you to modify the frequency the cable modem start with its scan during initialization and registration. Enter the new start frequency and restart the cable modem for it to take effect.

Starting Frequency 0

Startup Procedure

Procedure	Status	Comment
Acquire Downstream Channel	597000000 Hz	Locked
Connectivity State	OK	Operational
Boot State	OK	Operational
Security	Enabled	BPI+
IP Provisioning Mode	Honor MDD	honorMdd(4)

Downstream Bonded Channels

Channel	Lock Status	Modulation	Channel ID	Frequency	Power	SNR	Correctables	Uncorrect
1	Locked	QAM256	7	597000000 Hz	11.3 dBmV	38.1 dB	62	0
2	Locked	QAM256	1	561000000 Hz	12 dBmV	38.7 dB	0	0
3	Locked	QAM256	2	567000000 Hz	11.8 dBmV	38.5 dB	1	0
4	Locked	QAM256	3	573000000 Hz	11.8 dBmV	38.5 dB	2	0
5	Locked	QAM256	4	579000000 Hz	11.8 dBmV	38.5 dB	8	0
6	Locked	QAM256	5	585000000 Hz	11.6 dBmV	38.3 dB	17	0

Help Center Show/Hide Help Center

- In the **Starting Frequency** field, type a number as instructed by your cable Internet provider.



WARNING:

Do not change the starting frequency unless your cable Internet provider instructs you to do so. Changing the starting frequency incorrectly causes serious connection and Internet problems.

- Click the **Apply** button.
Your change takes effect.

3 Troubleshooting

This chapter provides information about troubleshooting your cable modem.

The chapter includes the following sections:

- *Use LEDs to Troubleshoot*
- *Cannot Log In to the Cable Modem*
- *Troubleshoot the Cable Internet Connection*

Note: NETGEAR provides helpful articles and documentation at <http://support.netgear.com>.

Use LEDs to Troubleshoot

The following table provides help when you are using the LEDs for troubleshooting.

Table 2. Troubleshooting with LEDs

LED Behavior	Action
All LEDs are off when the cable modem is plugged in.	- Make sure that the power cord is properly connected to your cable modem and that the power supply adapter is properly connected to a functioning power outlet. - Check that you are using the 12 VDC, 1.5A power adapter from NETGEAR for this product. - If the error persists, a hardware problem occurred. Contact technical support.
All LEDs stay on.	- Clear the configuration of the cable modem to its factory defaults. - If the error persists, a hardware problem occurred. Contact technical support.
The Ethernet LED is off  for a port with an Ethernet connection.	- Make sure that the Ethernet cable connections are secure at the cable modem and at the computer, router, or WiFi router. - Make sure that power is turned on to the connected hub or computer. - Be sure that you are using the correct cable.
The Internet LED is off  and the cable modem is connected to the cable wall jack.	- Make sure that the coaxial cable connections are secure at the cable modem and at the wall jack. - Make sure that your cable Internet provider provisioned your cable Internet service. Your provider can verify that the signal quality is good enough for cable modem service. - Remove any excessive splitters that you installed on your cable line. Run a "home run" back to the point where the cable enters your home.
The Power LED lights red  .	The cable modem is too warm and might overheat. Do the following: 1. Disconnect the power adapter. 2. Wait a couple of minutes to let the cable modem cool down. 3. Make sure that the cable modem is placed in a vertical position. 4. Make sure that the cable modem is placed in a location with good ventilation. 5. Reconnect the power adapter.

Cannot Log In to the Cable Modem

If you cannot access the cable modem from computer that is connected to the cable modem or to a router that is connected the cable modem, check the following:

- If your computer is connected to the cable modem with an Ethernet cable, check the connection.
- Make sure that your computer's IP address is on the same subnet as the cable modem. The IP address of your computer must be in the range of 192.168.100.2 to 192.168.100.254.
- Make sure that Java, JavaScript, or ActiveX is enabled in your browser. If you are using Internet Explorer, click the **Refresh** button to make sure that the Java applet is loaded.
- Try quitting the browser and launching it again.
- Make sure that you are using the correct login information. The cable modem user name **admin** is lowercase (Caps Lock is off). The default password is **password**.

If the cable modem does not save changes you made, do the following:

- When entering configuration settings, be sure to click the **Apply** button before moving to another screen, or your changes are lost.
- Click the **Refresh** or **Reload** button in the web browser. The changes occurred, but the web browser might be caching the old configuration.

Troubleshoot the Cable Internet Connection

If your cable modem cannot access the Internet but the Internet LED lights green , make sure that the cable MAC address or device MAC address of your cable modem is registered with your cable Internet provider (see [Activate Your Internet Service](#) on page 9).

Technical Specifications



The following table lists the technical specifications for the cable modem.

Table 3. Technical specifications

Feature	Specification
Power adapter	• Input: 110–120V, 47–60 Hz • Output: 12 VDC, 1.5A
Physical specifications	• Dimensions (W x D x H): 2.4 x 4.9 x 7.3 in. (60 x 124 x 185 mm) • Weight: 0.62 lb (0.28 kg)
Environmental	• Operating temperature: 32° to 104°F (0° to 40°C) • Operating humidity: 90% maximum relative humidity, noncondensing
Interface	• Local: 10/100/1000 RJ-45 Gigabit Ethernet port • Internet: Coaxial cable connector DOCSIS 3.0; backward compatible with DOCSIS 2.0
Memory	• 8 MB Flash • 128 MB RAM
Channels	• 16 bonded downstream • 4 bonded upstream
Certifications	• CableLabs certified for U.S. cable Internet services