

# CM600 Cable Modem

## User Manual



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#### Support

Thank you for selecting NETGEAR products.

After installing your device, locate the serial number on the label of your product and use it to register your product at *https://my.netgear.com*. You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website.

For product updates and web support, visit <a href="http://support.netgear.com">http://support.netgear.com</a>.

Phone (US & Canada only): 1-888-NETGEAR.

Phone (Other Countries): Check the list of phone numbers at http://support.netgear.com/general/contact/default.aspx.

#### Compliance

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

See the regulatory compliance document before connecting the power supply.

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## Hardware and Internet Setup



The NETGEAR CM600 Cable Modem provides a connection to high-speed cable Internet with speeds up to 960 Mbps.<sup>1</sup> 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
- Product Label
- Back Panel
- Install and Activate Your Cable Modem
- Connect Your Cable Modem to a Router After Installation and Activation

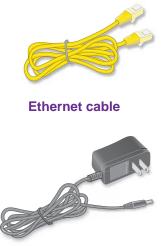
**Note:** For more information about the topics covered in this manual, visit the support website at *http://support.netgear.com*.

<sup>1.</sup> 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.





Power adapter

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.

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

## **Product Label**

The product label on the side 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 3. Product label

## **Back Panel**

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

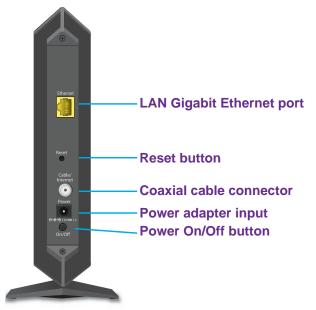


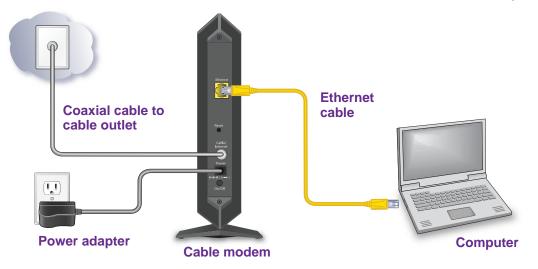
Figure 4. Cable modem back panel

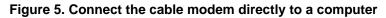
## Install and Activate Your Cable Modem

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).





**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. 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 Comcast Xfinity is your cable Internet provider, Comcast Xfinity recommends connecting your cable modem directly to a cable wall outlet.

- 2. Turn off the computer to which you intend to connect the cable modem.
- **3.** 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.
- 4. Turn on the computer.
- 5. 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 (1).

6. 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 *w* when more than one upstream channel is locked.
- After the cable modem registers with your cable Internet provider, the Internet LED lights green .

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

For information about how to set up your Internet service, see Set Up Your Internet Service with Comcast Xfinity.

## Set Up Your Internet Service with Comcast Xfinity

If Comcast Xfinity is your cable Internet provider, set up Internet service by using Comcast Xfinity's self-activation process. If you are unable to self-activate your modem router, call Comcast Xfinity customer service. After you complete the setup, perform a speed test.

#### Use the Self-Activation Process to Set Up Your Internet Connection

Before you start the self-activation process, make sure that your account number, account phone number, and login information (your email address or user name and password) are nearby.

#### > To set up your Internet connection with Comcast Xfinity's self-activation process:

- 1. Close all web browsers.
- 2. Launch a web browser.

You are redirected to the Xfinity self-activation page. If you are not redirected to the Xfinity self-activation page, visit *www.comcast.com/activate*.

3. Provide your Xfinity credentials and complete the self-activation process.

This process might take up to 15 minutes, during which the modem router reboots a couple times.

#### Call Comcast Xfinity to Set Up Your Internet Connection

If you are unable to self-activate your cable modem, call Comcast Xfinity customer service.

Before you call Comcast Xfinity, make sure that your account number, account phone number, email address, and password are nearby. The cable modem's model number is CM600. The serial number and MAC address are on the product label.



Figure 6. Find the serial number and the MAC address on the product label

#### > To set up your Internet connection by calling Comcast Xfinity:

- 1. Call Comcast Xfinity customer service at 1-800-XFINITY (1-800-934-6489).
- 2. When asked, provide your account information and provide the cable modem's model number and MAC address.
- 3. Wait for Comcast Xfinity to confirm that your cable modem is active.
- 4. If you do not get an Internet connection with the cable modem, ask the Comcast Xfinity representative to look for your cable modem online, and do one of the following depending on what Comcast Xfinity tells you about your cable modem:
  - If the cable modem is not visible, the Comcast Xfinity representative 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 the Comcast Xfinity representative, 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.

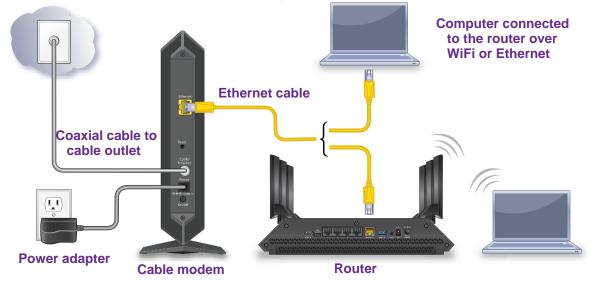


Figure 7. Connect the cable modem to a router

- > 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 (1).

Wait for the Internet LED to stop blinking and light solid green 4.

- 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.

Wait until the router is ready.

4. Connect a computer to the router over a WiFi connection or through an Ethernet cable to a LAN port on the router.

# Manage and Monitor

# 2

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 router.

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 window opens.

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 page 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 window opens.

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 page displays.

4. Select Cable Connection.

Frequence	cy start Value	•	-		8			
				ncy the cable mod estart the cable m				zation and
Starting	Frequency	675000000						
Startup P	Procedure				- 14			
	Procedure	S	tatus	Comment				
Acquire D	ownstream (	Channel 6750	00000 Hz	Locked				
Connectiv	vity State		ок	Operational				
Boot Stat	e		OK	Operational				
Configura	ation File		OK I	ted/cm-NmAccess	s.cfg			
Security		Di	sabled	Disabled				
IP Provisi	ioning Mode	Hor	or MDD	IPv4 only				
Downstre	am Bonded	Channels						
Channel	Lock Status	Modulation	Channel	ID Frequency	Power	SNR	Correctables	Uncorrectabl
1	Locked	QAM256	16	675000000 Hz	7.5 dBmV	44.1 dB	0	0
2	Locked	QAM256	1	585000000 Hz	8.5 dBmV	47.2 dB	0	0
3	Locked	QAM256	2	591000000 Hz	7.9 dBmV	46.9 dB	0	0
4	Locked	QAM256	3	597000000 Hz	7.2 dBmV	46.4 dB	0	0

The Startup Procedure section displays the initialization progress. The Downstream Bonded Channels section displays the status of each downstream channel.

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

Channel	Lock Status	<b>US Channel Type</b>	Channel ID	Symbol Rate	Frequency	Power
1	Locked	ATDMA	1	5120 Ksym/sec	8200000 Hz	36.3 dBmV
2	Locked	ATDMA	2	5120 Ksym/sec	14600000 Hz	33.3 dBmV
3	Locked	ATDMA	3	5120 Ksym/sec	21000000 Hz	37.8 dBmV
4	Locked	ATDMA	4	5120 Ksym/sec	27400000 Hz	34.0 dBmV
5	Locked	ATDMA	5	5120 Ksym/sec	33800000 Hz	32.8 dBmV
6	Locked	ATDMA	6	5120 Ksym/sec	40200000 Hz	34.8 dBmV
7	Locked	ATDMA	7	5120 Ksym/sec	46600000 Hz	33.3 dBmV
8	Locked	ATDMA	8	5120 Ksym/sec	53000000 Hz	32.8 dBmV

## 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 window opens.

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 page displays.

4. Select ADVANCED.

Zable Informatio	<u>nc</u>
Hardware Version	1.00
Firmware Version	V1.01.05
Cable Modem Serial Number	e0469af34fcc
CM Certificate	Installed
CM MAC	E0:46:9A:F3:4F:CC
Factory reset	Reboot

The Cable Information page 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 window opens.

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 page displays.

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

	0	Clear Log Refresh
	-	
Time	Priority	Description
2015-06-30, 12:39:44	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing:CM-MAC=e0:46:9a:f3:4f;cc;CMTS- MAC=00:01:5c:63:c0:74;CM-QOS=1.1;CM-VER=3.0;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to receive MAC SYNC frame within time-out period;CM- MAC=e0:46;9a:f3:4f;co;CMTS-MAC=00:01:5o:22:b0:42;CM- QOS=1.1;CM-VER=3.0;
Time Not Established	Notice (6)	Honoring MDD; IP provisioning mode = IPv6
Time Not Established	Critical (3)	No Ranging Response received - T3 time-out;CM- MAC=e0:46:9a:f3:4f:cc;CMTS-MAC=00:01:5c:63:c0:74;CM- QOS=1.0;CM-VER=3.0;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing:CM-MAC=e0:46:9a:f3:4f:cc;CMTS- MAC=00:00:00:00:00:00:CM-QOS=1.0;CM-VER=3.0;
Time Not Established	Critical (3)	No Ranging Response received - T3 time-out;CM- MAC=e0:46:9a:f3:4f:cc;CMTS-MAC=00:01:5c:22:b0:42;CM- QOS=1.0:CM-VER=3.0:
Time Not Established	Critical (3)	No Ranging Response received - T3 time-out;CM- MAC=e0:40:9a:f3:4f:cc;CMTS-MAC=00:01:5c:63:c0:74;CM- QOS=1.0;CM-VER=3.0;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing:CM-MAC=e0:46:9a:f3:4f.cc;CMTS- MAC=00:00:00:00:00:00:CM-QOS=1.0;CM-VER=3.0;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing:CM-MAC=e0:46:9a:f3:4f:cc;CMTS- MAC=00:00:00:00:00:00:CM-QOS=1.0;CM-VER=3.0;

The Event Log page 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 page, 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 window opens.

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 page displays.

4. Select ADVANCED > Administration > Set Password.

Set Password	_	_
	Apply  Cancel	
Old Password		
Set Password		
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 window opens.

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 page displays.

#### 4. Select ADVANCED.

The ADVANCED Home page displays the Cable Information pane.

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 window opens.

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 page displays.

#### 4. Select ADVANCED.

The ADVANCED Home page displays the Cable Information pane.

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 window opens.

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 page displays.

4. Select Cable Connection.

				estart the cable m				
Starting	Frequency (	75000000						
Startup P	Procedure				3			
	Procedure	S	tatus	Comment				
Acquire D	ownstream C	hannel 6750	00000 Hz	Locked				
Connectiv	vity State		ОК	Operational				
Boot State		OK Operational						
Configura	ation File		OK te	ed/cm-NmAccess	s.cfg			
Security Dis		sabled	Disabled					
IP Provisioning Mode Honor		or MDD	IPv4 only					
Downstre	eam Bonded	Channels						
Channel	Lock Status	Modulation	Channel I	D Frequency	Power	SNR	Correctables	Uncorrectable
1	Locked	QAM256	16	675000000 Hz	7.5 dBmV	44.1 dB	0	0
2	Locked	QAM256	1	585000000 Hz	8.5 dBmV	47.2 dB	0	0
3	Locked	QAM256	2	591000000 Hz	7.9 dBmV	46.9 dB	0	0
			3	597000000 Hz				

5. 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.

6. Click the **Apply** button.

Your change takes effect.

# 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.

LED Behavior	Action						
All LEDs are off when the cable modem is plugged in.	<ul> <li>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.</li> <li>Check that you are using the 12 VDC, 1.5A power adapter from NETGEAR for this product.</li> <li>If the error persists, a hardware problem occurred. Contact technical support.</li> </ul>						
All LEDs stay on.	<ul> <li>Clear the configuration of the cable modem to its factory defaults.</li> <li>If the error persists, a hardware problem occurred. Contact technical support.</li> </ul>						
The Ethernet LED is off and there is an Ethernet connection.	<ul> <li>Make sure that the Ethernet cable connections are secure at the cable modem and at the computer, router, or WiFi router.</li> <li>Make sure that power is turned on to the connected hub or computer.</li> <li>Be sure that you are using the correct cable.</li> </ul>						
The Internet LED is off and the cable modem is connected to the cable wall jack.	<ul> <li>Make sure that the coaxial cable connections are secure at the cable modem and at the wall jack.</li> <li>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.</li> <li>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.</li> </ul>						
The Power LED lights red.	<ol> <li>The cable modem is too warm and might overheat. Do the following:</li> <li>Disconnect the power adapter.</li> <li>Wait a couple of minutes to let the cable modem cool down.</li> <li>Make sure that the cable modem is placed in a vertical position.</li> <li>Make sure that the cable modem is placed in a location with good ventilation.</li> <li>Reconnect the power adapter.</li> </ol>						

 Table 2. Troubleshooting with LEDs

## 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 page, 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 on page 11).

# **Technical Specifications**



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

Feature	Specification
Power adapter	<ul> <li>Input: 110–120V, 47–60 Hz</li> <li>Output: 12 VDC, 1.5A</li> </ul>
Physical specifications	<ul> <li>Dimensions: 135.57 x 8.77 x 3.43 in. (135.57 x 222.68 x 87 mm)</li> <li>Weight: 14.53 oz. (412 g)</li> </ul>
Environmental	<ul> <li>Operating temperature: 32° to 104°F (0° to 40°C)</li> <li>Operating humidity: 90% maximum relative humidity, noncondensing</li> </ul>
Interface	<ul> <li>Local: 10/100/1000 RJ-45 Gigabit Ethernet port</li> <li>Internet: Coaxial cable connector DOCSIS 3.0; backward compatible with DOCSIS 2.0</li> </ul>
Memory	<ul><li>8 MB Flash</li><li>128 MB RAM</li></ul>
Channels	<ul><li> 24 bonded downstream</li><li> 8 bonded upstream</li></ul>
Certifications	CableLabs certified for U.S. cable Internet services