



User Guide

Motorola SURFboard[®]

SBG6580 Series Wi-Fi Cable Modem
Gateway





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Safety and Regulatory Information

IMPORTANT SAFETY INSTRUCTIONS

Read This Before You Begin

When using your equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- Read all of the instructions listed here and/or in the user manual before you operate this device. Give particular attention to all safety precautions. Retain the instructions for future reference.
- This device must be installed and used in strict accordance with manufacturer's instructions, as described in the user documentation that is included with the device.
- Comply with all warning and caution statements in the instructions. Observe all warning and caution symbols that are affixed to this device.
- To prevent fire or shock hazard, do not expose this device to rain or moisture. The device must not be exposed to dripping or splashing. Do not place objects filled with liquids, such as vases, on the device.
- This device was qualified under test conditions that included the use of the supplied cables between system components. To ensure regulatory and safety compliance, use only the provided power and interface cables and install them properly.
- Different types of cord sets may be used for connections to the main power supply circuit. Use only a main line cord that complies with all applicable device safety requirements of the country of use.
- Installation of this device must be in accordance with national wiring codes and conform to local regulations.
- Operate this device only from the type of power source indicated on the device's marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Do not overload outlets or extension cords, as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard.
- Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords where they are attached to plugs and convenience receptacles, and examine the point where they exit from the device.
- Place this device in a location that is close enough to an electrical outlet to accommodate the length of the power cord.
- Place the device to allow for easy access when disconnecting the power cord of the device from the AC wall outlet.
- Do not connect the plug into an extension cord, receptacle, or other outlet unless the plug can be fully inserted with no part of the blades exposed.
- Place this device on a stable surface.
- Avoid damaging the cable modem with static by touching the coaxial cable when it is attached to the earth-grounded coaxial cable-TV wall outlet.
- Always first touch the coaxial cable connector on the cable modem when disconnecting or reconnecting the Ethernet cable from the cable modem or user's PC.
- It is recommended that the customer install an AC surge protector in the AC outlet to which this device is connected. This is to avoid damaging the device by local lightning strikes and other electrical surges.
- Postpone installation until there is no risk of thunderstorm or lightning activity in the area.



- Do not cover the device or block the airflow to the device with any other objects. Keep the device away from excessive heat and humidity and keep the device free from vibration and dust.
- Wipe the device with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the device or use forced air to remove dust.
- Upon completion of any service or repairs to this device, ask the service technician to perform safety checks to determine that the device is in safe operating condition.
- Do not open the device. Do not perform any servicing other than that contained in the installation and troubleshooting instructions. Refer all servicing to qualified service personnel.
- This device should not be used in an environment that exceeds 40° C.

SAVE THESE INSTRUCTIONS

Note to CATV System Installer: This reminder is provided to call the CATV system installer's attention to Section 820.93 of the National Electric Code, which provides guidelines for proper grounding and, in particular, specifies that the coaxial cable shield shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Caring for the Environment by Recycling



When you see this symbol on a Motorola product, do not dispose of the product with residential or commercial waste.

Recycling your Motorola Equipment

Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items. Contact your local authorities for information about practices established for your region. If collection systems are not available, call Motorola Customer Service for assistance. Please visit www.motorola.com/recycle for instructions on recycling.

FCC STATEMENTS

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION: Any changes or modifications not expressly approved by Motorola for compliance could void the user's authority to operate the equipment.

Use of the 5150-5250 MHz frequency band is restricted to indoor use only.



FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with the FCC RF exposure compliance requirements, the separation distance between the antenna and any person's body (including hands, wrists, feet, and ankles) must be at least 20 cm (8 inches).

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter except those already approved in this filing.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destinations. The firmware setting is not accessible by the end user.

INDUSTRY CANADA (IC) STATEMENT

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

In Canada, RLAN devices are restricted from using the 5600-5650 MHz frequency band.

CAUTION: To reduce the potential for harmful interference to co-channel mobile satellite systems, use of the 5150-5250 MHz frequency band is restricted to indoor use only.

High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz frequency bands. These radars could cause interference and/or damage to LE-LAN devices.

IC Radiation Exposure Statement

IMPORTANT NOTE: This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 inches) between the radiator and your body.

WIRELESS LAN INFORMATION

This device is a wireless network product that uses Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency-Division Multiple Access (OFDMA) radio technologies. The device is designed to be interoperable with any other wireless DSSS and OFDMA products that comply with:

- The IEEE 802.11 Standard on Wireless LANs (Revision B, Revision G, and Revision N), as defined and approved by the Institute of Electrical and Electronics Engineers
- The Wireless Fidelity (Wi-Fi) certification as defined by the Wireless Ethernet Compatibility Alliance (WECA).





Restrictions on the Use of Wireless Devices

In some situations or environments, the use of wireless devices may be restricted by the proprietor of the building or responsible representatives of the organization. For example, using wireless equipment in any environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the applicable policy for the use of wireless equipment in a specific organization or environment, you are encouraged to ask for authorization to use the device prior to turning on the equipment.

The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this product, or the substitution or attachment of connecting cables and equipment other than specified by the manufacturer. Correction of the interference caused by such unauthorized modification, substitution, or attachment is the responsibility of the user.

The manufacturer and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from failing to comply with these guidelines.

SECURITY WARNING: This device allows you to create a wireless network. Wireless network connections may be accessible by unauthorized users. For more information on how to protect your network, see the section on setting up your wireless LAN in this guide or visit the Motorola website.








1

Introduction

Congratulations on your purchase of a Motorola SURFboard® SBG6580 Wi-Fi Cable Modem Gateway. Before installing your new modem, please take a moment to ensure that you have all of the items listed **In the Box**. If you are missing items, please contact Motorola Broadband Technical Support at 1-877-466-8646.

In the Box

ITEM		DESCRIPTION
Power Supply		Provides power via an AC electrical outlet
Ethernet Cable		Use the cable to connect to the network
Software License & Regulatory Card		Contains software license, warranty, and safety information for the SBG6580
SBG6580 Installation CD-ROM		Contains the SBG6580 Wi-Fi Installation Wizard, software license agreement, multi-language SBG6580 User Guides, and USB drivers (for Windows XP and Windows Vista). <i>NOTE: Devices received from service providers may not include the CD-ROM.</i>
SBG6580 Install Sheet		Provides basic information for connecting the SBG6580

Contact Information

For technical support or to learn more about Motorola products, visit the Motorola support website at <http://broadband.motorola.com/consumers/support>.

Motorola Broadband Technical Support is also available at: 1-877-466-8646. You will need the information located on the modem's Media Access Control (MAC) label. The MAC label is located on the bottom of the modem and contains the MAC address, serial number, SSID, WPA-PSK, and Passcode (for use with the CD Wi-Fi Wizard).



System Requirements

The SBG6580 is compatible with the following operating systems:

Windows 7

Windows Vista™, Service Pack 1 or later

Windows® XP, Service Pack 2 or later

Mac® 10.4 or later (Ethernet connection only)

UNIX®

Linux®



2

Product Overview

Front Panel



ICON	If the icon is...	Then the device is...
1 POWER	Steady Green and visible	Properly connected and ready
2 RECEIVE	Green /* Blue and flashing Green /* Blue and not flashing	In the registration process Locked onto either single (green) or multiple bonded (blue) channel
3 SEND	Green /* Blue and flashing Green /* Blue and not flashing	Scanning for an upstream (send) channel connection Connected with a non-bonded upstream channel
4 ONLINE	Green and flashing Green and not flashing	Scanning for a connection Finished scanning
5 WIRELESS	Green and flashing Amber and flashing	Actively scanning (show network traffic) Successfully paired when the icon is Green WPS pairing in progress
6 WPS	No icon or LED	The Wireless icon (see #5) is amber and flashes during the pairing process

**Indicates a bonded channel High speed connection (non Gigabit speed). Contact your service provider to learn if the feature is available.*

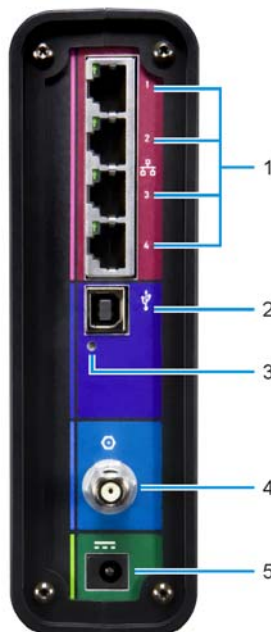


About Wi-Fi Protected Security Feature (WPS)



The **WPS** Pairing button activates any Wi-Fi Protected Security (WPS) enabled device and automatically connects it to the SBG6580 Wi-Fi network.

To increase the bandwidth available for receiving and transmitting data, your service provider may implement bonded channels for the RECEIVE and SEND features.

Rear Panel



Note: The USB port is not included on all SBG6580 models. This guide provides instructions for Ethernet connectivity unless specified.

PORT	DESCRIPTION
1  1 2 3 4 ETHERNET	Connected LED <ul style="list-style-type: none">Green LED is ON — Indicates a data connection is made
2 USB*	For Windows computers only — DO NOT use the USB port to connect a Mac, UNIX, or Linux computer
3 RESET	Returns modem to default settings (custom configurations are removed) and restarts the cable modem
4 CABLE	Coaxial cable connector
5  POWER	+12VDC Power connector



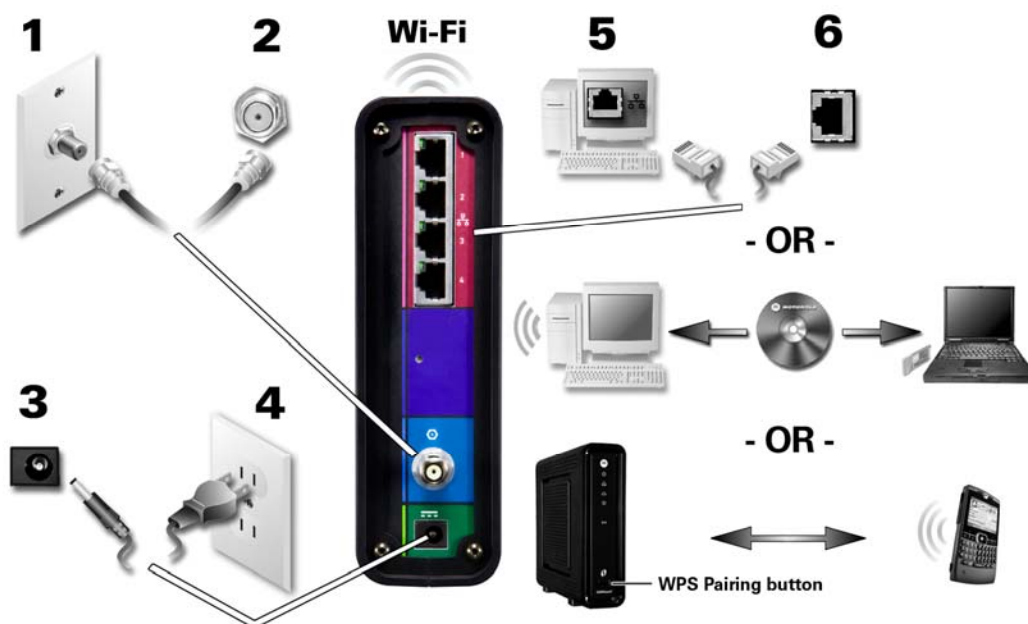
3

Installing the Modem

Connecting the SBG6580



This product is for indoor use only. Do not route the USB and/or Ethernet cable(s) outside of the building. Exposure of the cables to lightning could create a safety hazard and damage the product.



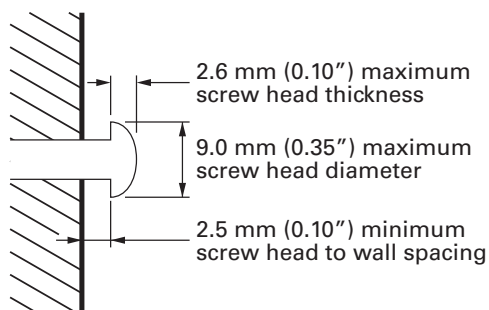
1. Verify that the coaxial cable is connected to a cable outlet.
2. Connect the other end of the coaxial cable to the Cable connector on the modem. Hand-tighten the connectors to avoid damage.
3. Plug the power cord into the power port on the modem.
4. Plug the other end of the power cord into an electrical wall outlet.
5. Select the Internet connection type (Ethernet Cable **-OR-** Wi-Fi set up with CD-ROM **-OR-** WPS Pairing button).
6. Insert the Ethernet cord from the modem to your computer **-OR-** Insert the CDROM to access the Wi-Fi wizard **-OR-** Push the WPS Pairing Button on the modem and on your WPS-enabled device.
7. Repeat steps 5 and 6 to connect additional computer and/or other devices.



Wall Mounting the Modem

If you choose to mount the wireless modem on a wall, do the following before starting:

- Locate the unit as specified by the local or national codes governing residential or business cable TV and communications services.
- Follow all local standards for installing a network interface unit/network interface device (NIU/NID).
- Disconnect the AC power plug is from the wall outlet and verify that all cables are removed from the back of the modem before starting the installation.
- Decide if you are mounting the modem horizontally or vertically.
- Gather the following items:
 - Wall-mounting template
 - Applicable screwdriver: Phillips or flathead
 - Two M3.5 (#6) screws with a flat underside and maximum screw head diameter of 9.0 mm to mount the gateway.
Note: Contact a qualified installer to determine the appropriate screw length needed for mounting the gateway.
 - See the dimensioned view below for the spacing needed between the screw head and wall:



Note: If possible, mount the modem to concrete, masonry, a wooden stud, or some other solid wall material. Use anchor bolts if necessary (for example, if you mount the unit on drywall).



Before drilling holes in the wall, check the structure for potential damage to water, gas, or electrical lines.

1. Position and secure the wall mounting template on the wall to mark the holes.
There must be .10 inch (2.5 mm) between the wall and underside of the screw head.
2. Select an appropriate depth and diameter to drill the holes to a depth of at least 1½ inches (3.8 cm).

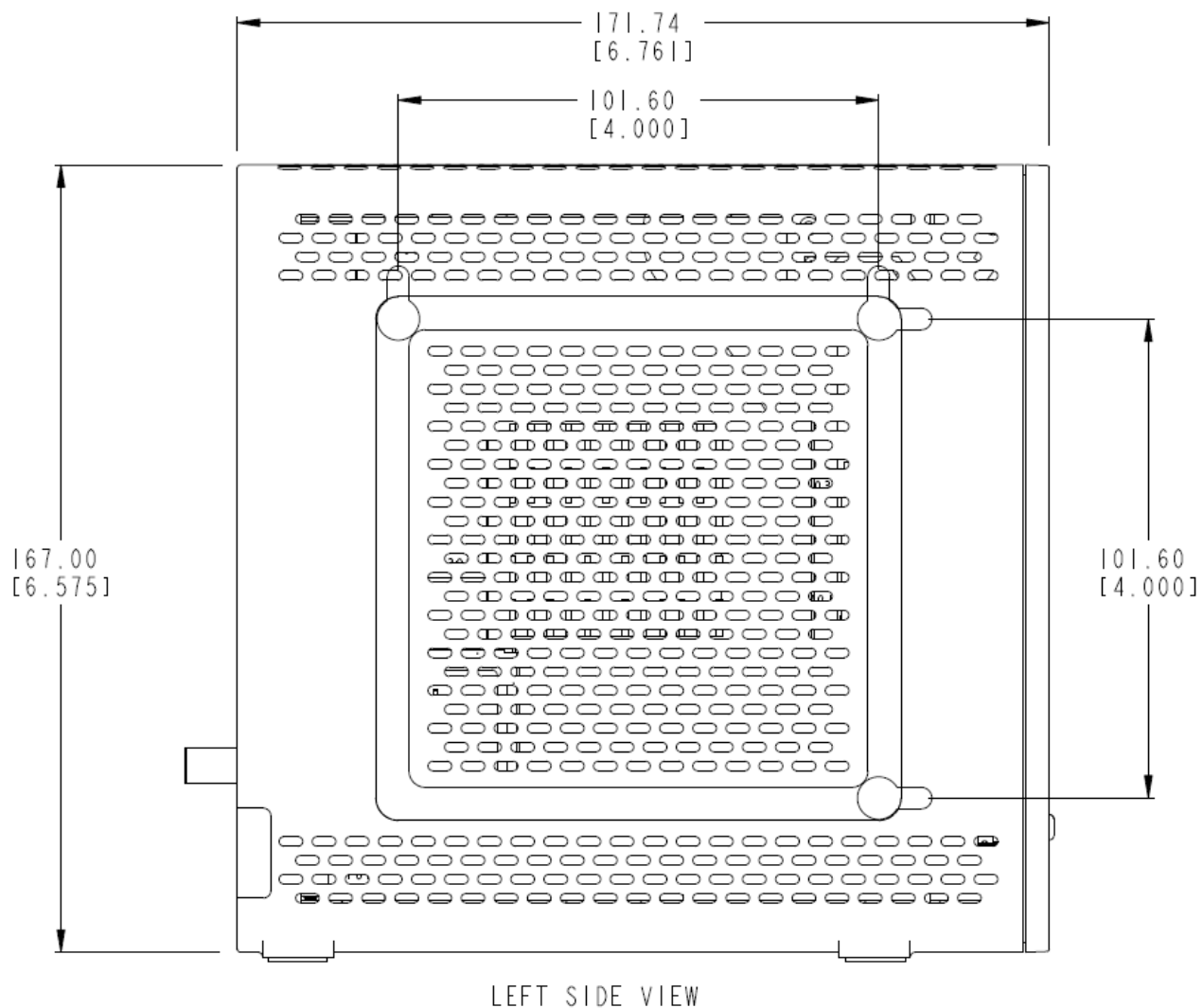
Note: *The installer must determine the depth of the hole, the necessary hardware and must be careful to select the appropriate depth and diameter.*

3. Reconnect the coaxial and Ethernet (or USB) cables after mounting the gateway.
4. Re-plug the power cord into the +12VDC Power connector on the gateway and the electrical outlet.
5. Arrange the cables to prevent any safety hazards.
6. Verify the gateway is still securely attached to the wall.



Wall Mounting Template

Print the wall mounting template for use during installation.



Installing the Modem •

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Connecting to the Internet

PROTECT YOUR NETWORK - CHANGE THE DEFAULT PASSWORDS!

Default passwords are commonly shared on the Internet. Protect your information and your network from unauthorized access; change the modem's default passwords BEFORE connecting to the Internet.



Use an Ethernet connection to change the passwords. NEVER configure your modem over a wireless network connection.

1. Open a browser window.
2. Type in the IP address for the modem **192.168.0.1**.
3. Type in the default Username; **admin**.
4. Type in the default Password; **motorola**.

Change User Information	
Password Change Username	<input type="text"/>
New Password	<input type="text"/>
Re-Enter New Password	<input type="text"/>
Current Username Password	<input type="text"/>

Restore Factory Defaults	
<input type="radio"/> Yes	<input checked="" type="radio"/> No
<input type="button" value="Apply"/>	

5. Type in your new username in the Password Change Username field.
6. Type in your new password in the New Password field.
7. Re-enter your new password.
8. Retype your new username in the Current Username Password field.
9. Click **Apply**.
10. Write down your new password and default password.

Restoring the Default Username and Password

CAUTION: This process removes any custom configurations from the modem. Before resetting the modem, [create a backup](#) copy of your configurations.

1. Select **Yes** under Restore Factory Defaults.
2. Click **Apply** to reset the default username and password.
3. Log in again using the defaults.



Testing Your Internet Connection

After changing the default passwords, you are ready to connect to the Internet.

1. Open a browser window.
2. Type in www.motorola.com.

If you are able to see the Motorola website, you are ready to enjoy the Internet. If you cannot connect to the Internet you may need to configure your modem. See the [Configuring TCP/IP](#) sections for additional information.

Configuring TCP/IP for Windows XP

1. Click **Start** and then click **Settings**.
2. Click **Control Panel**.
3. Double-click **Network Connections** to list the Dial-up and LAN or High-Speed Internet connections.
4. Right-click the network connection for your network interface.
5. Select **Properties** from the pull-down menu to display the **Local Area Connection Properties** window. Verify that **Internet Protocol (TCP/IP)** is checked.
6. Select **Internet Protocol (TCP/IP)** and click **Properties** to display the Internet Protocol (TCP/IP) Properties window.
7. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
8. Click **OK** to save the TCP/IP settings and exit the **TCP/IP Properties** window. Close the Local Area Connection Properties window and then exit the Control Panel.
9. Open a new browser window and type in www.motorola.com. Skip the next step if you can connect to the Motorola website.
10. Renew the IP Address if you cannot connect to the Internet. (See [Renewing the IP Address in Windows XP, Vista, or 7](#)).

Configuring TCP/IP for Windows Vista

1. Click **Start**, **Settings**, and **Control Panel**.
2. Double-click **Network and Internet** to display the Network and Internet window.
3. Double-click **Network and Sharing Center** to display the Network and Sharing Center window.
4. Click **Manage network connections** and right-click the network connection for your network interface.
5. Select **Properties** to display the Local Area Connection Properties window. Click **Continue** if you see User Account Control -- Windows needs your permission to continue prompt.



6. Select *Internet Protocol Version 4 or 6 (TCP/IPv4 or v6)* and click **Properties** to display the Internet Protocol Properties window.
7. Select Obtain an IP address automatically and Obtain DNS server address automatically. Click **OK** to save the settings, and then click **OK** to close the Local Area Connection Properties window.
8. Open a new browser window and type in www.motorola.com. Skip the next step if you can connect to the Motorola website.
9. Renew the IP Address if you cannot connect to the Internet. (See [Renewing the IP Address in Windows XP, Vista, or 7](#)).

Configuring TCP/IP for Windows 7

1. Click **Start**, click **Control Panel**, and then click **Network and Internet**.
2. Click **Network and Sharing Center** to display the Network and Sharing Center window.
3. Click **Change adapter settings** to display the LAN or High-Speed Internet connections window. Right-click the network connection for your network interface.
4. Select **Properties** to display the Local Area Connection Properties window.
5. Select **Internet Protocol Version 4 or 6 (TCP/IPv4 or v6)** and click **Properties** to display the Internet Protocol Properties window.
6. Select Obtain an IP address automatically and Obtain DNS server address automatically. Click **OK**. **Close** to close the Local Area Connection Properties and any other windows.
7. Test your connection by opening a new browser window and type in www.motorola.com. Skip the next step if you can connect to the Motorola website.
8. Verify and/or renew the IP Address if you cannot connect to the Internet. (See [Renewing the IP Address in Windows XP, Vista, or 7](#)).

Renewing the IP Address in Windows XP, Vista, or 7

1. Click the **Start** button and select **Run**.
2. Type **cmd** and click **OK** to open a command prompt window.
3. Type **ipconfig /renew** and press **Enter**. A valid IP address (e.g., 192.168.0 .0) returns indicating that Internet access is available.
4. Type **exit** and press **Enter** to close the command prompt window.
5. Test your connection by opening a new browser window and type in www.motorola.com.

If you are still unable to connect to the Internet, try restarting your computer and modem. If restarting does not resolve the issue, contact your Internet Service Provider.



5

Status and Basic Settings

Use the Status and Basic pages of the SBG6580 to observe how your network and modem are functioning and to perform routine maintenance tasks.

Performing a System Status Check

In addition to using the **Status** menu to change passwords, you can use it to get an at-a-glance view of your system, learn the **Software** version currently on your modem, what devices are **Connected** to your network(s), run a basic **Diagnostic** test, and view all **Event Logs**.

Creating a Backup Copy of Your Modem Settings

After you complete configuring your modem, save a copy of the new settings and store the file in a safe location. Use the backup copy to quickly restore your custom settings after resetting the modem to the factory settings.

1. Select **Backup** from the *Basic* menu.
2. Click **Backup**.
3. Click **OK** when prompted.
4. Click **Save**.
5. Save the backup file to a safe location on your computer (or an external storage device).
6. Click **Save**.

Restoring Your Modem Configuration Using a Backup Copy

1. Select **Backup** from the **Basic** menu.
2. Browse to your backup file.
3. Click **Restore** and then click **OK** to reboot the modem.



Using the DHCP Server Feature

A DHCP (Dynamic Host Configuration Protocol) Server automatically assigns IP address to computers within a set range. Use the feature if you wish to manually configure the IP address assignment range for your network.

Activate the DHCP Server

1. Select **DHCP** from the *Basic* menu.
2. Select **Yes** to activate the **DHCP Server**.
3. Enter a number for the **Starting Local Address** field.
4. Enter the number of **CPE's**.
5. Click **Apply**.



6

Creating Wi-Fi Networks

The SBG6580 supports both a Primary Wi-Fi network for you, and a guest network for visitors. You can quickly add WPS-enabled devices to your Wi-Fi network by entering a PIN or pushing a button.

Create a Primary Wireless Network

1. Log on to the modem's interface.
2. Click **Wireless**.
3. Click **Primary Network**.
4. Enable the Primary Network.
5. Disable or select the **Automatic Security Configuration** (WPS or SES).
6. Enter the name of your wireless network in the **Network Name (SSID)** field.
7. Select an **Automatic Security Configuration** option:
 - Disabled – User must configure the system manually
 - WPS (WiFi Protected) – Easy and quick start up
 - SES – (Secure Easy Set-up) – Better security, slow set-up
8. Select the Security Method:

WPA	Wi-Fi Protected Access
WPA-PSK	Wi-Fi Protected Access with Pre-Shared Key, standard encryption
WPA2	Wi-Fi Protected Access version 2 with Pre-Shared Key, standard encryption with the AES encryption type
WPA2-PSK	Wi-Fi Protected Access version 2 with Pre-Shared Key

Notes:

- Motorola recommends using WPA2-PSK.
 - The SBG6580 has a default Pre-Shared Key. Use the default key to configure a wireless adapter. For better security, Motorola recommends that you change the Pre-Shared Key setting.
9. Select the **WPA/WPA2 Encryption** type.
 10. Click **Apply**.



Create a Guest Wireless Network

1. Log in to the modem's interface.
2. Click **Wireless**.
3. Click **Guest Network**.
4. Enable the **Guest Network**.
5. Name your wireless guest network.
6. Select the Security Method:

WPA	Wi-Fi Protected Access
WPA-PSK	Wi-Fi Protected Access with Pre-Shared Key, standard encryption
WPA2	Wi-Fi Protected Access version 2 with Pre-Shared Key, standard encryption with the AES encryption type
WPA2-PSK	Wi-Fi Protected Access version 2 with Pre-Shared Key

Motorola recommends using WPA2-PSK.

7. Select the **WPA/WPA2 Encryption** type.

AES	provides the strongest encryption,
TKIP	provides strong encryption with improved compatibility (not supported if configured for 802.11N)
TKIP&AES	Allows both TKIP and AES-capable clients to connect.

- Motorola recommends using AES, the default setting.
8. Enter a new string in the **PRE-SHARED KEY** field.
 - For better security, Motorola recommends that you use a different **Pre-Shared Key** for the **GUEST NETWORK**.
 9. Click **Apply**.
 10. Use the **GUEST NETWORK PRE-SHARED KEY** and configure the wireless adapter on the guest network computer.



Create a Wi-Fi Network Using the WPS Feature

You can use one of three options to add WPS-enabled devices to your Wi-Fi Network. After logging in to the modem interface, use one of the following options to add devices.

Option 1 - PIN

1. Click **Wireless**.
2. Click **Basic**.
3. Select *Restore Wireless Defaults* and click **Apply**.
4. Click **Primary Network**.
5. Select *WPS* from *Automatic Security Configuration* pull-down menu.
6. Enter the **Device Name**.
7. Enter the PIN of the device you are adding to the *WPS Setup AP* field.
8. Wait for the web page to display "Your AP is now waiting for the STA to connect."
9. Select your wireless network on the Client GUI (device), and then connect using the PIN. The system reports when you have successfully connected.

Option 2 - WPS Pairing Button

1. Click **Wireless**.
2. Click **Basic**.
3. Select **Restore Wireless Defaults** and **Apply**.
4. Click **Primary Network**.
5. Select **WPS** from the **Automatic Security Configuration** pull-down.
6. Press and hold the **WPS** pairing button (approximately 7 seconds). The Wireless LED starts blinking.
7. Select the correct SSID on the device you are pairing, and then connect by pushing the device's WPS button. The system reports when you have successfully connected.

Option 3 - Push-Button method from the SBG6580 GUI

1. Click **Wireless**.
2. Click **Basic**.
3. Select **Restore Wireless Defaults** and **Apply**.
4. Select **Push-Button** from the **WPS Add Client** options and then press the **Add** button. A page displays "Your AP is now waiting for the STA to connect."
5. Select your network name on the device being added to your network.
6. Push the **WPS** button on the device to connect. The system reports when you have successfully connected.

Note: The method of configuring the device for WPS varies depending on the wireless adapter and the operating system (Windows XP, Mac, etc.,) being used. Some adapters have a physical button, and others provide a Client GUI that allow the user to select either PIN or Push Button method.



7 Setting the Parental Control Features

The Parental Control features allow you to block websites, schedule Internet availability, and monitor web visits.

Enable Parental Controls

1. Log in to the modem's interface.
2. Click **Parental Control**.
3. Click **Basic**.
4. Check the **Enable Parental Control** box.
5. Click **Apply**.

Create Policies to Block or Allow Content

1. Enter the name of your new policy in the **Add New Policy** field.
2. Click **Add New Policy**.
3. Select the newly created policy from the pull-down menu (located beside the **Remove Policy** button).
4. Go to the box under the desired category (**Keyword List**, **Blocked Domain List**, **Allowed Domain List**).
5. Enter keywords and/or domain names you wish to block or allow.
6. Click **Add** to grow the list(s).

The screenshot shows the 'Content Policy Configuration' interface. At the top, there is a title bar. Below it, there are two buttons: 'Add New Policy' and 'Remove Policy'. A dropdown menu shows '1. Default'. Below these are three columns: 'Keyword List', 'Blocked Domain List', and 'Allowed Domain List'. Each column has a text input field and 'Add' and 'Remove' buttons. Red arrows point to the 'Add' buttons in each column.



Create an Override Password

An override password allows you to access blocked domains. Parents can set permissions for the network, but override blocked domains by entering the password.

1. Enter the new override password.
2. Re-enter the new password.
3. Click **Apply**.

Add Users to the Parental Controls

1. Click **User Setup**.
2. Enter a name in the **Add User** field.
3. Select the newly created **User Name** from the list.
4. Check the **Enable** box.
5. Enter a **Password**.

Create a Time of Day Policy (ToD) Filter

Use the Time of Day feature to schedule times on your network to allow or block Internet access.

1. Click **ToD Filter**.
2. Enter a name in the **Add New Policy** field.
3. Click **Add New Policy**.
4. Select the new policy from the pull down menu.
5. Check the **Enabled** box.
6. Select the days of the week for the policy (i.e., the After School Policy is active Monday – Friday).
7. Select the times of day that the policy will block access (i.e., the After School Policy blocks Internet access Mon – Fri from 9AM to 3:30 PM).

Time Access Policy Configuration

Create a new policy by giving it a descriptive name, such as "Weekend" or "Working Hours"

Time Access Policy List

1. After School Policy	<input type="checkbox"/> Enabled	<input type="button" value="Remove"/>
------------------------	----------------------------------	---------------------------------------

Days to Block

<input type="checkbox"/> Everyday	<input type="checkbox"/> Sunday	<input checked="" type="checkbox"/> Monday	<input checked="" type="checkbox"/> Tuesday
<input checked="" type="checkbox"/> Wednesday	<input checked="" type="checkbox"/> Thursday	<input checked="" type="checkbox"/> Friday	<input type="checkbox"/> Saturday

Time to Block

All day

Start: (hour) (min)

End: (hour) (min)



A

Troubleshooting

If the solutions listed here do not solve your problem, contact your service provider.





You may have to reset the SBG6580 to its original factory settings if the gateway is not functioning properly (using the reset button will remove custom settings, including Parental Control, Firewall, and Advanced settings).

MODEM PROBLEM	POSSIBLE SOLUTION
Power light is off	<ul style="list-style-type: none">• Check that the SBG6580 is properly plugged into the electrical outlet.• Check that the electrical outlet is working.• Press the RESET button on the rear panel.
Cannot send or receive data	<ul style="list-style-type: none">• On the front panel, note the status of the icons and refer to Front Panel Icons and Error Conditions to identify the error. If you have cable TV, check that the TV is working and the picture is clear. If you cannot receive regular TV channels, the data service will not function.• Check the coaxial cable at the SBG6580 and wall outlet. Hand-tighten if necessary.• Check the IP address. Follow the steps for verifying the IP address for your system described in Configuring TCP/IP. Call your service provider if you need an IP address.• Check that the Ethernet cable is properly connected to the SBG6580 and the computer.• If a device is connected via the Ethernet port, check the ONLINE icon to verify connectivity.
Wireless client(s) cannot send or receive data	<ul style="list-style-type: none">• Perform the first four checks in "Cannot send or receive data."• Check the Security Mode setting on the Wireless Primary Network Page:• If you enabled WPA and configured a passphrase on the SBG6580, be sure each affected wireless client has the identical passphrase. If this does not solve the problem, check whether the wireless client supports WPA.• If you enabled WEP and configured a key on the SBG6580, be sure each affected wireless client has the identical WEP key. If this does not solve the problem, check whether the client's wireless adapter supports the type of WEP key configured on the SBG6580.• To temporarily eliminate the Security Mode as a potential issue, disable security using the HTML configuration pages.• After resolving your problem, be sure to re-enable wireless security.• On the Wireless Access Control Page, be sure the MAC address for each affected wireless client is correctly listed.
Slow wireless transmission speed with WPA enabled	<ul style="list-style-type: none">• On the Wireless Primary Network Page, check whether the WPA Encryption type is TKIP.• If all of your wireless clients support AES, change the WPA Encryption to AES.



Front Panel Icons and Error Conditions

The SBG6580 front panel icons provide status information for the following error conditions:

ICON	STATUS	IF, DURING STARTUP:	IF, DURING NORMAL OPERATION:
 POWER	OFF	SBG6580 is not properly plugged into the power outlet	The SBG6580 is unplugged
 RECEIVE	FLASHING	Downstream receive channel cannot be acquired	The downstream channel is lost
 SEND	FLASHING	Upstream send channel cannot be acquired	The upstream channel is lost
 ONLINE	FLASHING	IP registration is unsuccessful	The IP registration is lost



Product Specifications

GENERAL SPECIFICATIONS

DOCSIS/EuroDOCSIS 3.0-certified (Interoperable with DOCSIS/EuroDOCSIS 1.0, 1.1, and 2.0)

Cable Interface F-Connector, female 75 Ω
Network Interface Four Gigbit (10/100/1000) Ethernet ports

Wi-Fi Interface
802.11n Wi-Fi (backwards compatible with 802.11 a/b/g)

Dimensions
6.6 in x 1.9 in x 6.8 in (167 cm x 50 cm x 171.7 cm)

Regulatory
RoHS compliant, FCC, UL listed (U.S. and Canada), Industry Canada, CE, ENERGY STAR qualified, CoC compliant, MEPS Compliant

INPUT POWER

North America 105 to 125 VAC, 60 Hz
Outside North America 100 to 240 VAC, 50 to 60 Hz

ENVIRONMENTAL

Operating Temperature 32 °F to 104 °F (0 °C to 40 °C)
Storage Temperature -22 °F to 158 °F (-30 °C to 70 °C)
Operating Humidity 5 to 95% R.H. (non-condensing)

DOWNSTREAM

Modulation 64 or 256 QAM
Downstream Channel Capture Two independent 32 MHz Wideband Tuners

Maximum Theoretical Data Rate

DOCSIS 343.072 Mbps (8 channels) / 42.884 (single channel) @ 256 QAM at 5.36 Msym/s
EuroDOCSIS 444.928 Mbps (8 channels) / 55.616 (single channel) @ 256 QAM at 6.952 Msym/s

Maximum Bandwidth Required

DOCSIS ≤ 48 MHz/2
EuroDOCSIS ≤ 64 MHz/2

Symbol Rate
DOCSIS 64 QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s
EuroDOCSIS 64 QAM 6.952 Msym/s; 256 QAM 6.952 Msym/s

Operating Level Range -15 to 15 dBmV

Bonded Channel RF
Level Tolerance 10dBmV
Input Impedance 75 Ω (nominal)

Frequency Range DOCSIS and EuroDOCSIS 108 to 1002 MHz (edge to edge),
Optional 91 to 1002 MHz (edge to edge)

Frequency Plan
EuroDOCSIS Annex A
DOCSIS Annex B
J-DOCSIS Annex B, modified for Japan frequencies

Security DOCSIS 3.0 Security (BPI+, EAE, AES, and SSD)

Network Management SNMP v2 & v3

Provisioning Supports IP addressing using IPv4 and/or IPv6 (dual stack)

Product Specifications •



UPSTREAM

Modulation	QPSK and 8, 16, 32, 64, 128 QAM
Maximum Channel Rate	
DOCSIS	131.072 Mbps (4 channels) / 32.768 Mbps (single channel): @ 128 QAM at 6.4 MHz
EuroDOCSIS	131.072 Mbps (4 channels) / 32.768 Mbps (single channel): @ 128 QAM at 6.4 MHz
Channel Width	200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz
Symbol Rates	160, 320, 640, 1280, 2560, 5120 ksym/s
Operating Level Range	Level range per channel (Multiple Transmit Channel mode disabled, or only Multiple Transmit Channel mode enabled with one channel in the TCS)
DOCSIS/EuroDOCSIS	
TDMA	Pmin to +57 dBmV (32 QAM, 64 QAM) Pmin to +58 dBmV (8 QAM, 16 QAM) Pmin to +61 dBmV (QPSK)
S-CDMA	Pmin to +56 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate Pmin = +23 dBmV, 5120 kHz modulation rate
Level range per channel (two channels in the TCS)	
TDMA	Pmin to +54 dBmV (32 QAM, 64 QAM) Pmin to +55 dBmV (8 QAM, 16 QAM) Pmin to +58 dBmV (QPSK)
S-CDMA	Pmin to +53 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate Pmin = +23 dBmV, 5120 kHz modulation rate
Level range per channel (three or four channels in the TCS)	
TDMA	Pmin to +51 dBmV (32 QAM, 64 QAM) Pmin to +52 dBmV (8 QAM, 16 QAM) Pmin to +55 dBmV (QPSK)
S-CDMA	Pmin to +53 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate Pmin = +23 dBmV, 5120 kHz modulation rate
Output Impedance	75 Ω (nominal)



UPSTREAM (CONTINUED)

Frequency Range

DOCSIS 5-42 MHz (edge to edge), EuroDOCSIS and optional DOCSIS 5 to 65 MHz edge to edge)

Compatibility

PC: 90496, Pentium, or later; Windows Vista™, 2000, or XP or Linux® with Ethernet connection (older versions of Windows, although not specifically supported, may work with this cable modem)

Macintosh: Power PC or later; OS 9 or higher, Ethernet connection

UNIX: Ethernet connection Home Networking: Ethernet router or Wi-Fi access point

NETWORK

Gateway

DHCP, NAT, VPN tunneling; static routing and dynamic IP routing (RIPv1, RIPv2); SPI firewall with DoS protection and intrusion prevention; port, packet, and URL keyword filtering; full suite of ALGs; UPnP IGD 1.0; L2TPv2

Wi-Fi LAN

802.11b/g/n Wi-Fi, WDS bridging, 802.11e WMM admission control, QoS

Power Management

802.11e WMM power save/U-APSD (Unscheduled-Automatic Power Save Delivery)

802.11i Security

WEP-64/128, WPA-PSK, WPA, WPA2, TKIP, AES, 802.1x, 802.11i (pre-authentication)

Wi-Fi Pairing

User-friendly Wi-Fi protected setup (WPS) for connection with WPS compatible device

Regulatory Domains

To include US, Canada, ETSI, World

Transmit Power Output:

IEEE 802.11b 19 dBm +1/-1.5 dB at all rates in all channels

IEEE 802.11g 16 dBm +1/-1 dB at 54 Mbps in all channels

Receiver Sensitivity:

> -90 dBm at 11 Mbps;

> -74 dBm at 54 Mbps

All features, functionality, and other product specifications are subject to change without notice or obligation.



Software License & Warranty

SURFboard SBG6580 Series Wi-Fi Cable Modem Gateway
Motorola, Inc.
Home & Networks Mobility Solutions Business (“Motorola”)
101 Tournament Drive
Horsham, PA 19044

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SURFboard SBG6580 Wi-Fi Cable Modem Gateway

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