



SURFboard[™] SB6183 DOCSIS[®] 3.0 Cable Modem

User Guide

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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 electrical 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 electrical 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 device 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 device when disconnecting or reconnecting the Ethernet cable from the device or user's PC.
- It is recommended that the customer install an electrical surge protector in the electrical 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 use this product near water: for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- 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.
- For added protection, unplug the device from the wall outlet and disconnect the cables to avoid damage to this device during lightning activity or power surges.
- 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 104° F (40° C).

SAVE THE ABOVE INSTRUCTIONS

Note to CATV System Installer — This reminder is provided to call the CATV system installer's attention to Article 820.93 and 820.100 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.

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.

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 8 inches (20.3 centimeters).

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.

CAN ICES-3 (B)/NMB-3 (B)

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 License Exempt–Local Area Network (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 centimeters between the radiator and your body.*

Avis D'Industrie Canada (IC)

Cet appareil est conforme à la réglementation RSS-210 d'Industrie Canada. Son utilisation est assujettie aux deux conditions suivantes:

- Cet appareil ne doit pas causer d'interférences et
- Cet appareil doit accepter toute interférence reçue, y compris les interférences causant un fonctionnement non désiré.

CAN ICES-3 (B)/NMB-3 (B)

Au Canada, les appareils de réseau local sans fil ne sont pas autorisés à utiliser les bandes de fréquence 5600-5650 MHz.

Avertissement: afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux, les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur

Les radars à haute puissance sont définis en tant qu'utilisateurs principaux (c.-à-d. prioritaires) des bandes de fréquences 5250-5350 MHz et 5650-5850 MHz. Ces radars peuvent causer de l'interférence ou des dommages susceptibles de nuire aux appareils exempts de licence–réseau local (LAN-EL).

Déclaration de IC sur L'Exposition aux Rayonnements

Note Importante: *cet équipement est conforme aux limites d'exposition aux rayonnements établies par IC pour un environnement non contrôlé. Cet équipement doit être installé et utilisé de manière à maintenir une distance d'au moins 20 cm entre la source de rayonnement et votre corps.*

Caring for the Environment by Recycling



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

Recycling your ARRIS 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 ARRIS Customer Service at **1-877-466-8646** for assistance.

Getting Started

Introduction





The ARRIS SURFboard® SB6183 DOCSIS 3.0® Cable Modem provides a secure ultra high-speed broadband connection to the Internet for your computer and other network devices on your home or small business network.



This guide provides a product overview and instructions for installing and setting up your SB6183 to get it connected to your home network.

In the Box

Before installing the SB6183, check that the following items are also included in the box. If any items are missing, please call ARRIS Technical Support at **1-877-466-8646** for assistance.

Table 1. SB6183 Package Contents

Item		Description
SB6183 Cable Modem		High-speed DOCSIS 3.0 cable modem
Power Supply		Power cord for an electrical wall outlet connection
Ethernet Cable		Standard Category 5 (CAT5) or higher cable for connecting to the network
Software License & Regulatory Card		Software license, warranty, Safety instructions, and regulatory information for the cable modem

Item	Description
Support Information Card	 <p>Contact information for obtaining technical support assistance with your SURFboard device</p>
SB6183 Quick Start Guide	 <p>Basic information for installing the cable modem and connecting to the Internet on your home network.</p>

Additional Item(s) You May Need

The following item is not included in the box and must be purchased separately, if required:

- Coaxial (coax) cable, if one is not already connected to a cable wall outlet

System Requirements

- High-speed Internet access account
- Web browser access – Internet Explorer, Google Chrome, Firefox, or Safari
- Compatible operating systems:
 - Windows®10
 - Windows 8
 - Windows 7 Service Pack 1 (SP1)
 - Windows Vista™ SP2 or later
 - Windows XP SP3



Note: Microsoft no longer supports Windows XP. The SB6183 should still function without any problems.

- Macintosh® 10.4 or higher
- UNIX®
- Linux®

Contact Information

For technical support and additional ARRIS product information:

- Visit the ARRIS Support website: www.arris.com/consumer
(<http://www.arris.com/consumer>)
- Call ARRIS Technical Support: **1-877-466-8646**

Product Overview

Front Panel

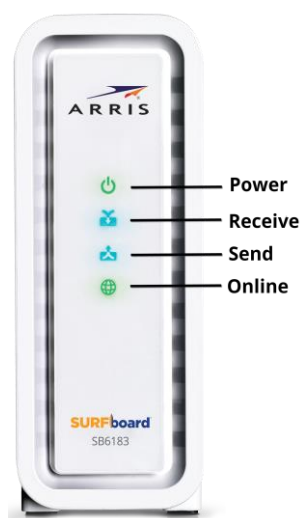






Figure 1: SB6183 Front View

Table 2. SB6183 Front Panel LED Icons

LED Icon	Blinking	On (Solid)
 POWER	Not applicable – icon does not blink.	Green: Power is properly connected.
 RECEIVE	Scanning for a downstream (receive) channel connection.	Green: Non-bonded downstream channel is connected. Blue*: High-speed Internet connection with bonded downstream channels.
 SEND	Scanning for an upstream (send) channel connection.	Green: Non-bonded upstream channel is connected. Blue*: High-speed Internet connection with bonded upstream channels.
 ONLINE	Scanning for an Internet connection.	Green: Startup process completed.

***Blue:** Indicates DOCSIS 3.0 operation (high-speed Internet access) which may not be available in all locations. Check with your service provider for availability in your area.

Rear Panel

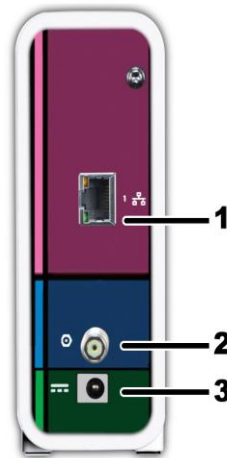






Figure 2: SB6183 Rear View

Table 3. SB6183 Rear Panel Ports & Connectors

Description	
 ETHERNET	10/100/1000Base-T Ethernet port <ul style="list-style-type: none"> ■ Green: LED is ON – Indicates a 1 Gb data connection is made ■ Green: LED is Blinking - Indicates data traffic is in progress ■ Amber: LED is ON – Indicates a 10/100 Mb data connection is made ■ Amber: LED is Blinking – Indicates data traffic is in progress
 CABLE	Coaxial cable connector
 POWER	+12VDC Power connector  WARNING! To avoid any damage to your SB6183, only use the power supply provided in the box.

Cable Modem Label

The cable modem label is located on the bottom of the SB6183. It contains the cable modem ID that you may need when contacting your service provider or ARRIS Technical Support.

To receive Internet service, contact your service provider for assistance. You may need to provide the following information listed on the cable modem label:

- Cable modem Model name (**SB6183**)
- Cable modem MAC address (**HFC MAC ID**)
- Cable modem Serial number (**S/N**)

Installing the Cable Modem



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

Connect the SB6183 to Your Computer

Before installing the SB6183:

- Check with your service provider to ensure broadband cable service is available in your area.
- Choose a location in your home where your computer and cable modem are preferably near existing cable and electrical wall outlets.

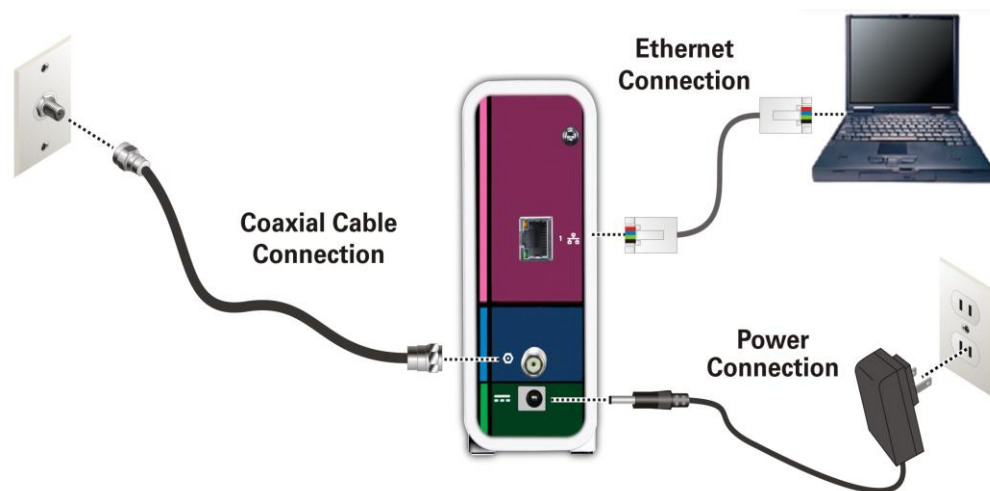


Figure 3: SB6183 Connection Diagram

1. Check that a coaxial cable is already connected to a cable wall outlet or RF splitter (optional).
2. Connect the other end of the coaxial cable to the **Cable** connector on the rear of the SB6183.
Use your hand to tighten the connectors to avoid damaging them.
3. Connect the Ethernet cable to the **Ethernet** port on the rear of the SB6183.
4. Connect the other end of the Ethernet cable to the **Ethernet** port on your computer.
5. Connect the power cord to the **Power** port on the rear of the SB6183.

6. Plug the other end of the power cord into an electrical wall outlet that is not controlled by a wall switch.



Note: This automatically powers ON the SB6183.

Establish an Internet Connection

Although your computer may already be configured to automatically access the Internet, you should still perform the following cable modem connectivity test to check that your devices were connected properly:

1. Power ON the computer connected to the SB6183, if it is turned off, and then log in.
2. Contact your service provider to activate (provision) the SB6183. You may have to provide the HFC MAC ID listed on the cable modem label.



Note: Your service provider may allow for automatic activation which will automatically launch their special website when you open a web browser.

3. After the SB6183 is provisioned (or activated), open a web browser (such as Internet Explorer, Google Chrome, Firefox, or Safari) on the computer.
4. Type a valid URL (such as **www.surfboard.com**) in the address bar and then press **Enter**. The ARRIS website should open. If it fails to open, please contact your service provider for assistance.
5. Check that the **Power**, **Receive**, **Send**, and **Online** front panel LEDs on the SB6183 light up in sequential order. See [Front Panel](#) (page 13) for additional LED status information.
 - If all four LEDs did not light up Solid and you are not connected to the Internet, you may have to contact your service provider to reactivate your SB6183 or check for possible signal issues.
 - If you still cannot connect to the Internet, the SB6183 may be defective. Please call ARRIS Technical Support at **1-877-466-8646** for assistance.

Using the Cable Modem Web Manager

The SB6183 Web Manager is available to view and monitor the SB6183 operational status and also to reset or reboot the SB6183.

Start the SB6183 Web Manager

1. Open any Web browser on the computer connected to the SB6183.
2. Type the default LAN IP address, **192.168.100.1**, in the Address bar and then press **Enter**.

The SB6183 Status screen displays.

Startup Procedure									
Procedure			Status						Comment
Acquire Downstream Channel									Locked
Connectivity State			OK						Operational
Boot State			OK						Operational
Configuration File			OK						
Security			Enabled						BPI+
DOCSIS Network Access Enabled			Allowed						
Downstream Bonded Channels									
Channel	Lock Status	Modulation	Channel ID	Frequency	Power	SNR	Corrected	Uncorrectables	
1	Locked	QAM256	1	507000000 Hz	-5.6 dBmV	38.8 dB	0	0	
Upstream Bonded Channels									
Channel	Lock Status	US Channel Type	Channel ID	Symbol Rate	Frequency	Power			
1	Locked	TDMA	1	1280 Ksym/sec	22864000 Hz	55.0 dBmV			
Current System Time: Wed Dec 09 16:55:18 2015									

Figure 4: SB6183 Opening Screen



Note: If you cannot access the HTML pages in the SB6183 Web Manager, please call or contact ARRIS Technical Support for assistance.

SB6183 Web Manager Screen Options

Menu Buttons and Links

You can use the web manager buttons or links to view the status and network configuration screens for the SB6183.

- The SB6183 menu buttons are displayed along the top of the SB6183 Web Manager screen. To display a specific web manager screen, click the menu button.

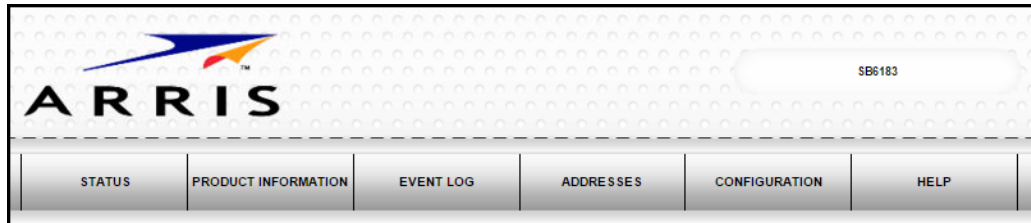


Figure 5: SB6183 Web Manager Menu Buttons

- The SB6183 menu links are displayed along the bottom of the SB6183 Web Manager screen. To display a specific web manager screen, click the menu link.



Figure 6: SB6183 Web Manager Menu Links

Table 4. SB6183 Web Manager Screen Options

Screen Option	Function
Status	Provides the current operational status of the cable modem.
Product Information	Provides the current hardware and software-related information for the cable modem.
Event Log	Displays a listing of the time and actual events as they occur and are detected by the cable modem. This information may be useful to help diagnose and correct any problems that may occur with the cable modem.
Addresses	Provides the serial number and MAC addresses for the cable modem and computers connected on your home network.

Screen Option	Function
Configuration	Provides the network connection frequency and channel ID information for the cable modem. Also, allows you to reset the cable modem configuration to the factory default configuration and restart the cable modem.
Help	Provides a brief description for each screen option and general troubleshooting tips.

Get Help

The Help Pages screen provides a brief description for each web manager screen.

- Click the **Help** menu button or link on the SB6183 Web Manager screen to open the SB6183 Help Pages screen.

Help Pages	
Status	The Status page is the first page in the display. This page shows diagnostic information about the startup procedure, the downstream bonded channels, and the upstream bonded channels.
Product Information	The Product Information page displays information about the hardware version, software version, MAC address, serial number, system "up" time, and network registration status.
Event Log	The Event Log page provides a list of all the events that have occurred on the cable modem. Each event shows the time that it occurred, the priority of the event, and an event description.
Addresses	The Addresses Page provides information about the network connection between the Cable Modem and your computer. Also, it provides details about the connection between the Cable Modem and the service provider's computer systems.
Configuration	The Configuration page lists information about the upstream and downstream connection to the service provider.
<small>For information regarding software licenses, acknowledgments and copyright notices for certain software packages and/or components that are used in this SB6183, please see the Open Source Software Information.</small>	

Figure 7: SB6183 Help Overview Screen

Exit the SB6183 Web Manager

To exit the SB6183 Web Manager:

- Click the **Close** button in the upper right corner of the web browser window.

Monitoring Your Cable Modem and Connected Network



Note: You may notice that some of the SB6183 Web Manager configuration settings may be blocked and cannot be modified. This may be due to some restrictions set up by your service provider to prevent unauthorized modifications to certain cable modem configuration parameters. Contact your service provider regarding special authorization to change the cable modem frequencies or other configuration settings.

View the SB6183 Network Connection Status

The Status screen displays the current connection status of the SB6183 and the downstream and upstream bonded channel connections for receive and send data transmissions. [Help](#) is available to resolve any connection issues that resulted in a “failed” state during the cable modem startup.

To open the Status screen:

1. Open the SB6183 Web Manager (see [Start the SB6183 Web Manager](#)).
2. Click the **Status** menu button or link on the SB6183 Web Manager screen.

The Status screen displays (see Figure 8).

3. Press **F5** to refresh or update the information on the screen.

Startup Procedure									
Procedure			Status						Comment
Acquire Downstream Channel									Locked
Connectivity State			OK						Operational
Boot State			OK						Operational
Configuration File			OK						
Security			Enabled						BPI+
DOCSIS Network Access Enabled			Allowed						
Downstream Bonded Channels									
Channel	Lock Status	Modulation	Channel ID	Frequency	Power	SNR	Corrected	Uncorrectables	
1	Locked	QAM256	1	507000000 Hz	-5.6 dBmV	38.8 dB	0	0	
Upstream Bonded Channels									
Channel	Lock Status	US Channel Type	Channel ID	Symbol Rate	Frequency	Power			
1	Locked	TDMA	1	1280 Ksym/sec	22864000 Hz	55.0 dBmV			
Current System Time: Wed Dec 09 16:55:18 2015									

Figure 8: SB6183 Status Screen

View the SB6183 Product Information

The SB6183 Product Information screen displays the hardware and firmware versions, MAC address, serial number and operation status for the SB6183.

To open the Addresses screen:

1. Open the SB6183 Web Manager (see [Start the SB6183 Web Manager](#)).
2. Click the **Product Information** menu button or link on the SB6183 Web Manager screen.

Information	
Standard Specification Compliant	DOCSIS 3.0
Hardware Version	1
Software Version	D30CM-OSPREY-1.5.0.1-GA-01-NOSH
Cable Modem MAC Address	e4:83:99:1d:27:d7
Serial Number	391601328700008602020968
Status	
Up Time	0 days 01h:37m:25s

Figure 9: SB6183 Product Information Screen

3. Press **F5** to refresh or update the information on the screen.

View the SB6183 Event Log

The SB6183 generates a running log of the time and events or activities that it detects during the cable modem operation.



Note: This information may be useful to help diagnose and correct any problems that may occur with your cable modem. You may want to provide this information if you have to contact ARRIS Technical Support or your service provider for assistance.

To open the Logs screen:

1. Open the SB6183 Web Manager (see [Start the SB6183 Web Manager](#)).
2. Click the **Event Logs** menu button or link on the SB6183 Web Manager screen.
3. Press **F5** to refresh or update the information on the screen.
4. Click **Clear Log** if you want to delete the log entries.

Time	Priority	Description
Time Not Established	Warning (5)	DHCP WARNING - Non-critical field invalid in response ;CM-MAC=e4:83:99:1d:27:d7;CMTS-MAC=00:04:28:25:9c:55;CM-QOS=1.0;CM-VER=3.0;
Time Not Established	Notice (6)	Honoring MDD; IP provisioning mode = IPv4
Time Not Established	Warning (5)	Lost MDD Timeout;CM-MAC=e4:83:99:1d:27:d7;CMTS-MAC=00:04:28:25:9c:55;CM-QOS=1.0;CM-VER=3.0;
Time Not Established	Critical (3)	No Ranging Response received - T3 time-out
Time Not Established	Critical (3)	Unicast Ranging Received Abort Response - Re-initializing MAC;CM-MAC=e4:83:99:1d:27:d7;CMTS-MAC=00:04:28:25:9c:54;CM-QOS=1.0;CM-VER=3.0;
Time Not Established	Critical (3)	No Ranging Response received - T3 time-out

Figure 10: SB6183 Event Logs Screen

View the SB6183 Cable Modem Configuration

The SB6183 Cable Modem Configuration screen displays the downstream and upstream connection to the network. When the SB6183 successfully connects to the network, it stores the connection frequency to automatically connect whenever you have to log back in to the SB6183.

To open the Configuration screen:

1. Open the SB6183 Web Manager (see [Start the SB6183 Web Manager](#)).
2. Click the **Configuration** menu tab or link on the SB6183 Web Manager screen.



Note: The configuration settings on the SB6183 Configuration screen are read-only and cannot be modified. You will have to contact your service provider to obtain special authorization to change the cable modem frequencies and other configuration settings.

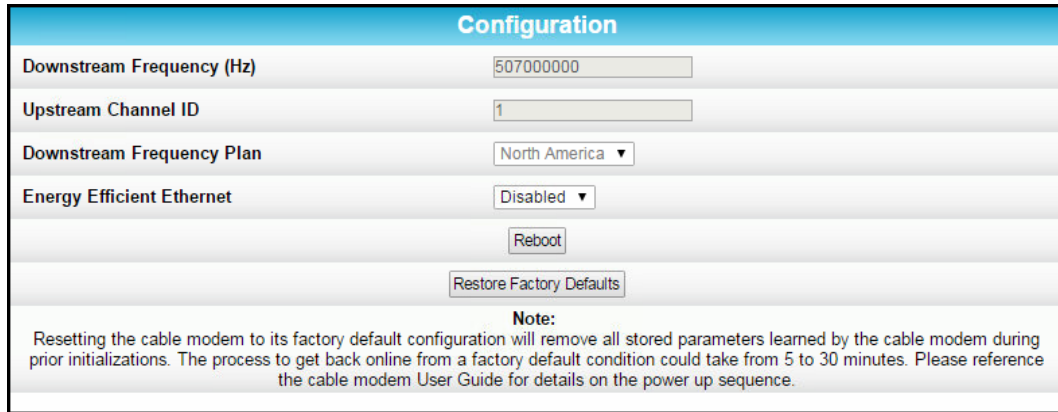


Figure 11: SB6183 Configuration Screen

Reset the SB6183 Configuration Settings

You can restore the SB6183 to the factory default settings using the Configuration screen. This process will delete the current settings and take approximately 5 to 30 minutes to complete. Your network connection will remain disabled until after the SB6183 configuration is restored.



WARNING! This action deletes the current SB6183 configuration and replaces it with the factory default settings.

To open the Configuration screen:

1. Open the SB6183 Web Manager (see [Start the SB6183 Web Manager](#)).
2. Click the **Configuration** menu tab or link on the SB6183 Web Manager Menu.

The Configuration screen displays.

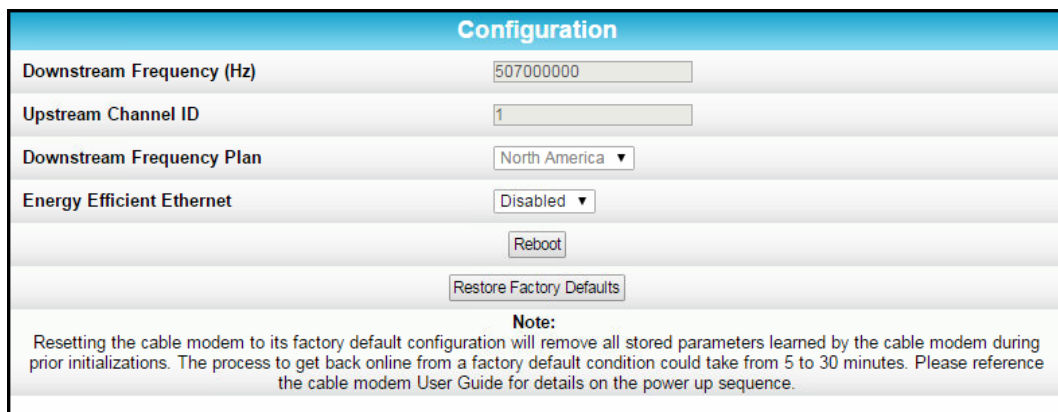


Figure 12: SB6183 Configuration Screen

3. Click **Restore Factory Defaults**.

The following message dialog will display.

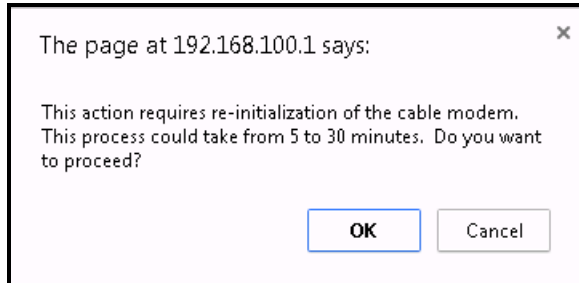


Figure 13: Restore Factory Defaults Dialog Box

4. Click **OK** to continue.

The SB6183 Web Manager will automatically open when the Reset All Defaults process is finished.

Restart the SB6183

To reboot the SB6183:

1. Open the SB6183 Web Manager (see [Start the SB6183 Web Manager](#)).
1. Click the **Configuration** menu tab or menu link on the SB6183 Web Manager Menu.

The Configuration screen displays.

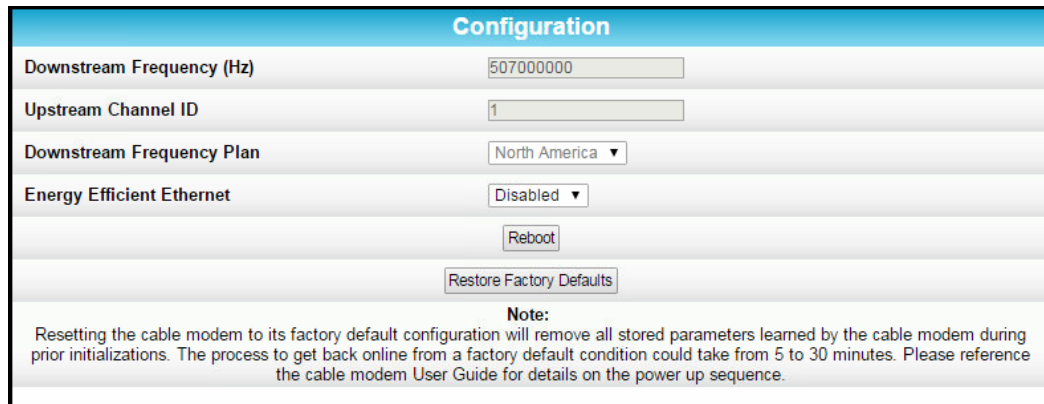


Figure 14: SB6183 Configuration Screen

2. Click **Reboot**.

The following message dialog will display:

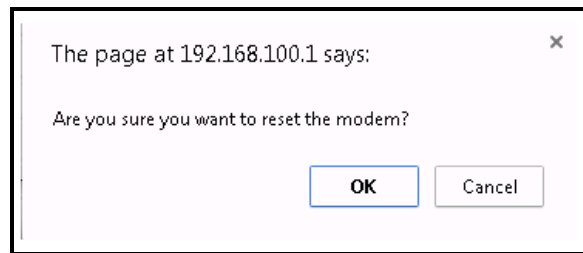


Figure 15: Cable Modem-Reboot Dialog Box

3. Click **OK**.
The following message will display: **The device has been reset... RELOAD.**
4. Click **RELOAD** to open the SB6183 Web Manager.

Exit the SB6183 Web Manager

To exit the SB6183 Web Manager:

- Click the **Close** button in the upper right corner of the web browser window

Troubleshooting Tips

If the solutions listed in the Troubleshooting Solutions table below do not solve your problem, please contact your service provider for assistance. Your service provider may ask for the status of the SB6183 front panel LEDs (see [Front Panel LED Icons and Error Conditions 27](#)) for more information).

You may have to reset the SB6183 configuration to the default factory settings if the SB6183 is not functioning properly. See [Reset the SB6183 Configuration Settings](#) for more information.

Solutions

Table 5. Troubleshooting Solutions





Modem Problem	Possible Solution
Power LED Icon is OFF	<ul style="list-style-type: none"> ■ Check the power connection from the cable modem to the electrical wall outlet. ■ Check that the electrical wall outlet is working. Is the outlet controlled by a wall light switch? If so, disconnect the cable modem power cord and connect it to another electrical wall outlet that is not controlled by a wall light switch.
Cannot Send or Receive Data	<ul style="list-style-type: none"> ■ Check each end of the coaxial cable connection on the cable modem and cable wall outlet. Use your hand to tighten each connector, if necessary. ■ Check the Ethernet cable to make sure it is properly connected to the cable modem and computer. ■ On the front panel, check the status of the LED icons and refer to Front Panel LED Icons and Error Conditions (page 27) to identify the problem. ■ If you have cable television service, check your television to ensure your cable service is operating properly. ■ If none of the above solutions resolves the problem, contact your service provider or call ARRIS Technical Support at 1-877-466-8646 for assistance.

Modem Problem	Possible Solution
Cannot Access the Internet	<ul style="list-style-type: none"> ■ Check that all cable and power connections on your cable modem and computer are properly connected. ■ Check that the Power and Online LED icons on the front panel are lit up solid. ■ Contact your service provider for assistance.

Front Panel LED Icons and Error Conditions

The SB6183 front panel LED icons provide status information for the following error conditions:

Table 6. Front Panel LED Icons and Error Conditions

Led Icon	Status	If, During Startup:	If, During Normal Operation
 POWER	OFF	SB6183 is not properly plugged into the electrical outlet	SB6183 is unplugged
 RECEIVE	FLASHING	Downstream receive channel cannot be acquired	Downstream channel is lost
 SEND	FLASHING	Upstream send channel cannot be acquired	Upstream channel is lost
 ONLINE	FLASHING	IP registration is unsuccessful	IP registration is lost

Warranty Information

SURFboard SB6183 DOCSIS 3.0 Cable Modem

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Retail Purchasers: If you purchased this Product directly from ARRIS or from an authorized ARRIS retail reseller, ARRIS warrants to you, the original end user customer, that (A) the Product, excluding Software, will be free from defects in materials and workmanship under normal use, and (B) with respect to Software, (i) the media on which the Software is provided will be free from defects in material and workmanship under normal use, and (ii) the Software will perform substantially as described in its documentation. This Limited Warranty to you, the original end user customer, continues (A) for Software and the media upon which it is provided, for a period of ninety (90) days from the date of purchase from ARRIS or an authorized ARRIS reseller, and (B) for the Product (excluding Software), for a period of two (2) years from the date of purchase from ARRIS or from an authorized ARRIS reseller. To take advantage of this Limited Warranty or to obtain technical support, you must call the ARRIS toll-free phone number **1-877-466-8646**. Technical support charges may apply. ARRIS' sole and exclusive obligation under this Limited Warranty for retail sales shall be to repair or replace any Product or Software that does not meet this Limited Warranty. All warranty claims must be made within the applicable Warranty Period.

Cable Operator or Service Provider Arrangements. If you did not purchase this Product directly from ARRIS or from a ARRIS authorized retail reseller, ARRIS does not warrant this Product to you, the end-user. A limited warranty for this Product (including Software) may have been provided to your cable operator or Internet Service Provider ("Service Provider") from whom you obtained the Product. Please contact your Service Provider if you experience problems with this Product.

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Retail Purchasers Only. If you purchased this Product directly from ARRIS or from an ARRIS authorized retail reseller, please call the ARRIS toll-free number, **1-877-466-8646** for warranty service or technical support. Technical support charges may apply.

Cable Operator or Service Provider Arrangements. If you did not purchase this Product directly from ARRIS or from an ARRIS authorized retail reseller, please contact your Service Provider for technical support.

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PN: 365-095-24153 x.2

December 2015



SURFboard SBR-AC3200P Wi-Fi Router

User Guide

STANDARD PN 365-095-28245 x.1

April 2016

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Other patents pending.

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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 electrical 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 electrical 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.

- It is recommended that the customer install an electrical surge protector in the electrical 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 use this product near water: for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- 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.
- For added protection, unplug the device from the wall outlet and disconnect the cables to avoid damage to this device during lightning activity or power surges.
- 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 104° F (40° C).

SAVE THE ABOVE INSTRUCTIONS

Temperature Requirements

The Wi-Fi Router is capable of operating in an ambient temperature range of 0° - 40°C, without any functional performance degradation.

FCC Part 15

This equipment has been tested and found to comply with the requirements for a Class B digital device under Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended to provide reasonable protection against harmful interference in a residential installation. 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 equipment 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 equipment 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.



WARNING

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

For the U.S. model, the country code is preset and cannot be changed. Per FCC regulations, the country code setting for all Wi-Fi products marketed in the U.S. must be fixed to U.S. operational channels only.

Operation of this device is restricted to indoor use only.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 11.8 inches (30 cm) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux CNR exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

(1) Ce dispositif ne peut causer d'interférences; et (2) Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Caution:

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Avertissement:

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Industry Canada ICES-003 Compliance Label: CAN ICES-3(B)/NMB-3(B)

Industry Canada ICES-006 Compliance Label: CAN ICES-6/NMB-6

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 30 cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 30 cm de distance entre la source de rayonnement et votre corps.

Industry Canada ICES-003 Compliance Label: CAN ICES-3(B)/NMB-3(B)

Industry Canada ICES-006 Compliance Label: CAN ICES-6/NMB-6

IC Warning:

This radio transmitter (IC: 6670A-SBRAC1200P) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

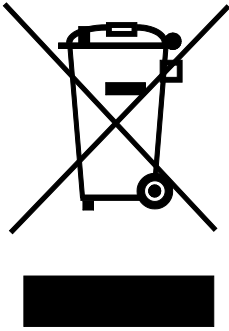
Antenna		Peak gain (dBi)		
Type	Connector	2400~2483.5MHz	5150~5250MHz	5725~5850MHz
Dipole	I-pex	1.83		
Dipole	I-pex	2.02		
PIFA	I-pex		2.87	3.60
PIFA	I-pex		3.23	3.82

IC Avertissement:

Le présent émetteur radio (IC: 6670A-SBRAC1200P) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenne		Gain de crête (dBi)		
Type	Connecteur	2400~2483.5MHz	5150~5250MHz	5725~5850MHz
Dipôle	I-pex	1.83		
Dipôle	I-pex	2.02		
PIFA	I-pex		2.87	3.60
PIFA	I-pex		3.23	3.82

CARING FOR THE ENVIRONMENT BY RECYCLING



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

Recycling your ARRIS 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.

Product Overview

Introduction

Get ready to experience the Internet's express lane! Whether you're checking out streaming media, downloading new software, or checking your email, the SURFboard SBR-AC3200P Wi-Fi Router brings it all to you faster and more reliably.

The SURFboard SBR-AC3200P Wi-Fi® Router provides four Ethernet connections for use as the hub of your home/office Local Area Network (LAN). The SBR-AC3200P also provides 802.11a/b/g/n/ac wireless connectivity for enhanced mobility and versatility.

The SURFboard RipCurrent™ feature (using G.hn Power Line Communication) also allows you to place wired and wireless extenders around your home using your home's existing power lines and power outlets to allow for network connectivity in or around your home environment.



About The Wi-Fi Router

The SBR-AC3200P is more than just a Wi-Fi Router. This advanced Access Point is the start of a new home network experience that offers the following benefits:

- Tri-band concurrent 802.11ac radios: two for the 5 GHz band and one for the 2.4 GHz band. These radios provide automatic client-directed connections for optimal Wi-Fi connectivity and speed based on a client's capability. Each radio includes a 3x3 MIMO antenna array for the best reach, range, and throughput.
- Four gigabit Ethernet ports for ultra fast wired connectivity.
- A USB 3.0 port and a USB 2.0 port, for data and media storage or transfer and print sharing.
- Embedded RipCurrent technology via your home power lines, ready to connect to RipCurrent or other compatible G.hn extenders to reliably take your network to the farthest reaches of your environment.

The SBR-AC3200P includes the following features:

- Supports Ethernet and 802.11a/b/g/n/ac wireless connections; both wired and wireless connections can be used simultaneously.
- Auto connection to RipCurrent extenders, including the wireless settings.
- Option for automated product firmware upgrades.
- Network supports up to 15 connected power line extenders.
- Easy to navigate user interface, including a network set-up Wizard.
- Default settings configured for standard environments, with advanced settings for sophisticated users.
- USB ports include a file structure that provides high-speed throughput and data integrity protection.
- Support for NAS and DLNA.

What is RipCurrent?

SURFboard RipCurrent is a technology that allows you to set up a high-speed home network that uses existing AC wiring and outlets. There's no need to run additional cables; your devices can communicate at data rates up to 1 Gbps using the network of power lines that already exists in your home.

The SBR-AC3200P uses the power cable connected to the Wi-Fi Router to connect to the power lines that already exist in your home. RipCurrent is based on G.hn Power Line Communication (PLC), which is an ITU Specification managed by the HomeGrid™ Forum. This technology allows the SBR-AC3200P to distribute all data to each of the AC power outlets in the home. With a corresponding G.hn Extender, the Wi-Fi or wired network can be extended to any room, including basements, garages, or far reaching bedrooms. Connect entertainment devices, security cameras, gaming consoles, managed appliance, anything that uses IP (Internet Protocol).

The G.hn technology is more robust than previous home power line communication implementations to give you better 'real world' throughput and stability. G.hn proves much

more efficient in an environment with multiple power line networks (such as apartment buildings or office buildings) with the capability of recognizing up to 250 other networks to avoid interference. G.hn communications are encrypted using the advanced standard AES 128-bit encryption for secure transmissions.

In order to ensure the best performance of your G.hn network, we recommend that you only use 3-prong grounded outlets. A 2-prong outlet will operate sufficiently, but with a lower throughput speed.

What's in the Box?

Make sure you have the following items before proceeding.

- SBR-AC3200P Wi-Fi Router.
- Power Cable.
- Wireless Installation Guide.
- Ethernet Cable.
- End User License Agreement.



Important: Before returning this product to the store, please call ARRIS Technical Support for assistance in resolving any technical issues.

Support for SURFboard products is managed by ARRIS. For assistance, please call 1-877-466-8646 or visit the ARRIS Consumer Support website at <http://www.arris.com/consumers>.

Items You Need

Make sure you have the following items on hand before continuing:

- **Wi-Fi Router package:** see *What's in the Box?* (page 13) for a list of items in the package.
- **Ethernet Cable for LAN input:** In addition to the Ethernet cable provided, you may need additional Ethernet cables if you want to connect to wired clients. Please use a standard CAT 5e or CAT 6-rated Ethernet cable with RJ45 type connectors on both ends. You can buy Ethernet cables from any electronics retailer and many discount stores.

System Requirements

The SURFboard Wi-Fi Router operates with most computers and wireless devices. The following describes requirements for each operating system; see the documentation for your system for details on enabling and configuring networking.

To use the Wi-Fi Router, you need high-speed Internet service from your service provider.

Recommended Hardware

The following hardware configuration is recommended. Computers not meeting this configuration can still work with the SBR-AC3200P, but may not be able to make maximum use of SBR-AC3200P throughput.

- CPU: P4, 3 GHz or faster.
- RAM: 1 GB or greater.
- Ethernet: Gig-E (1000Base-T).
- Wi-Fi: 802.11a, b, g, n, or ac compliant Wi-Fi equipment.

Windows

Windows 7, Windows 8, or Windows 10. A supported Ethernet or wireless LAN connection must be available.

Mac OS

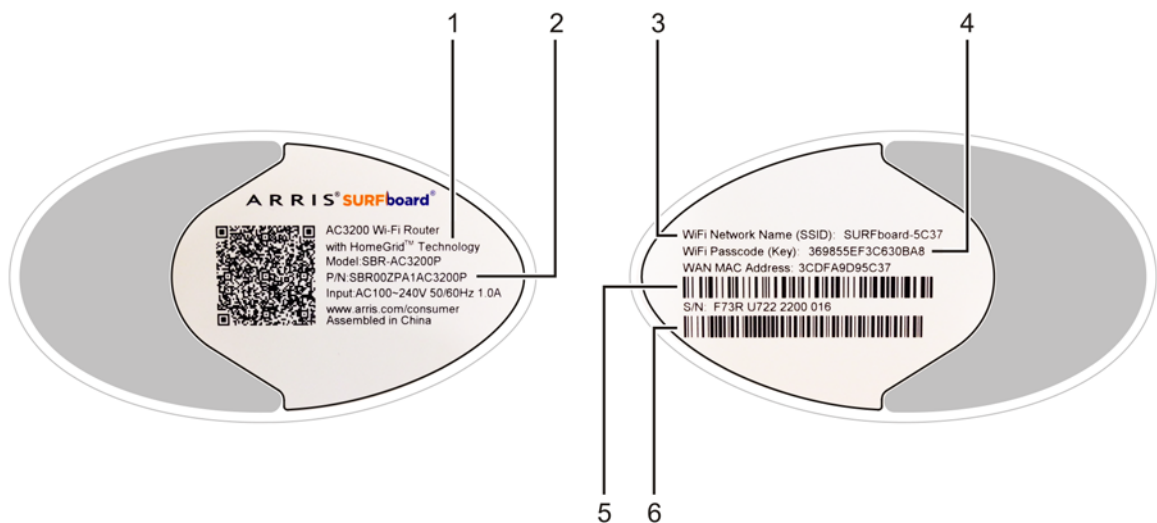
System 7.5 to Mac OS 9.2 (Open Transport recommended) or Mac OS X. A supported Ethernet or wireless LAN connection must be available.

Linux/Unix

Hardware drivers, TCP/IP, and DHCP must be enabled in the kernel. A supported Ethernet or wireless LAN connection must be available.

About this Manual

This manual covers the SURFboard SBR-AC3200P Wi-Fi Router. The model number is on the label affixed to the bottom of the Wi-Fi Router.



1. Model name.
2. Part number.
3. WiFi network name (SSID).
4. WiFi passcode (key).
5. WAN MAC address.
6. Serial number.

Contact Information

Please visit the ARRIS Support website <http://www.SURFboard.com/Support/SBR-AC3200P> for self-help technical support and product documentation. We can also provide technical assistance via chat and email on the support website. ARRIS Support is available by phone at 877-466-8646. Please be prepared to provide your product's model number and serial number, which can be found on the Wi-Fi Router's label.

For information on additional SURFboard products, or to purchase SURFboard products (including other RipCurrent-enabled devices), visit <http://www.surfboard.com>.

For informational videos and tutorials about this and other ARRIS products, visit the ARRIS Everywhere YouTube channel at <https://www.youtube.com/user/ARRISmarketing/featured>.

Installing the Wi-Fi Router

Before you start, make sure that:

- You have all the *Items You Need* (page 13).
- The modem and power outlets are available nearby.

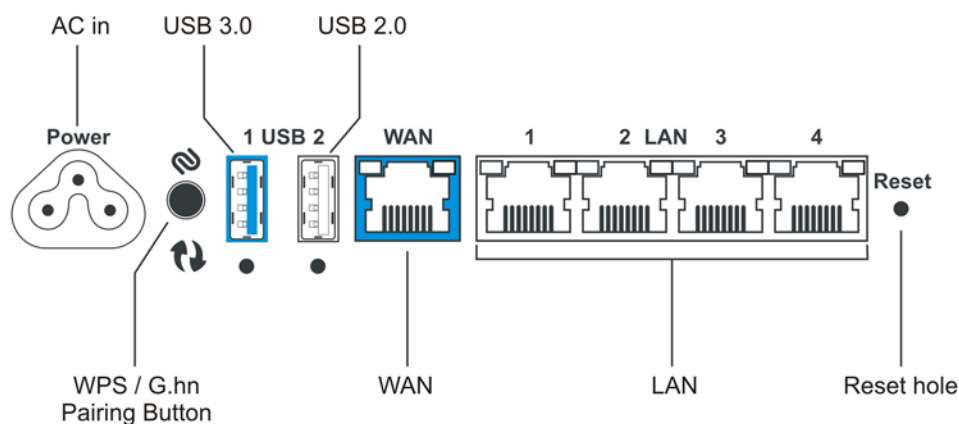
Front Panel

The front of the Wi-Fi Router has a single LED that indicates the status of the Wi-Fi Router.

Color/Behavior	Description
Solid green	Normal operation.
Solid amber	Standby mode.
Flashing amber	WPS pairing mode.
Flashing red	Start-up mode, or error.

Rear Panel

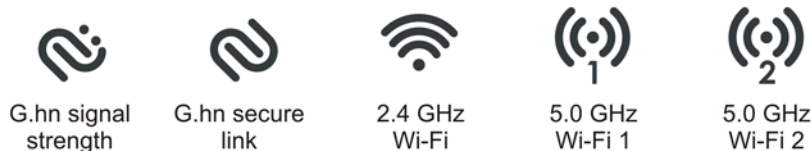
The rear of the Wi-Fi Router has the following connectors and controls:



Name	Description
AC in	Connector for the power cord.
WPS/G.hn pairing button	<p>Begins associating the Wi-Fi Router with either a wireless device or a G.hn device.</p> <ul style="list-style-type: none"> ■ Press and hold the button for two to three seconds to initiate G.hn pairing. ■ Press and hold the button for five to 10 seconds to initiate WPS pairing. ■ Press and hold the button for 15 Seconds or more to unpair the Wi-Fi Router from the G.hn network.
USB 3.0	USB 3.0 host connector.
USB 2.0	USB 2.0 host connector.
WAN	Connector for cabling to the Internet services modem.
LAN (1 - 4)	Connectors for cabling to devices using Ethernet cables.
Reset	<p>Can be used either to reset the Wi-Fi Router to its factory settings or to restart the Wi-Fi Router. Use a pointed non-metallic object to press and hold this button.</p> <ul style="list-style-type: none"> ■ Press and hold this button for three to five seconds to restart the Wi-Fi Router as if you power cycled the device. ■ Press and hold this button for more than 10 seconds if you want to reset the Wi-Fi Router to its factory default settings and restart the device. Any customized settings that you have set will be lost.

Indicator Lights for the SBR-AC3200P

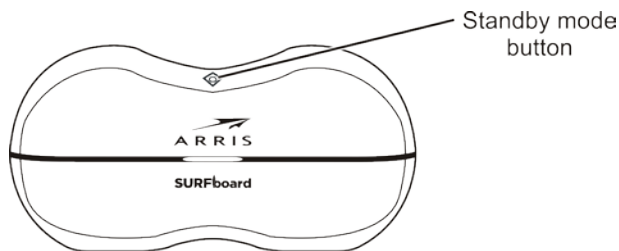
The Wi-Fi Router has several LED indicator lights on the rear panel to assist in troubleshooting:



LED	Color/Behavior	Description
G.hn signal strength	Solid green	Excellent link.
	Flashing green	Receiving/transmitting data, excellent link.
	Solid amber	Good link.
	Flashing amber	Receiving/transmitting data, good link.
	Solid red	Fair link.
	Flashing red	Receiving/transmitting data, fair link.
	Off	No link.
G.hn secure link	Solid green	Secure pairing complete. Connected to G.hn network with encryption enabled.
	Flashing green	Secure pairing in progress. Trying to connect to G.hn network.
	Solid red	Non-secure pairing complete. Connected to G.hn network without encryption.
	Flashing red	Non-secure pairing in progress. Trying to connect to G.hn network.
	Off	No link.
2.4 Ghz Wi-Fi	Solid green	2.4 Ghz wireless interface enabled, but no activity.
	Flashing green	2.4 Ghz wireless interface activity.
5 Ghz Wi-Fi (1 and 2)	Solid green	5 Ghz wireless interface enabled, but no activity.
	Flashing green	5 Ghz wireless interface activity.

Standby Mode

The diamond-shaped button on top of the Wi-Fi Router is used to put the Wi-Fi Router into Standby mode. When you press this button, the Wi-Fi capability is disabled for additional security and power savings. The front LED turns amber when Standby is activated.



Press the button again to re-activate the Wi-Fi Router.

Selecting an Installation Location

There are a number of factors to consider when choosing a location to install the Wi-Fi Router:

- Is an AC outlet available nearby? For best results, the outlet should not be switched and should be close enough to the Wi-Fi Router that extension cords are not required.
- Is the modem nearby? Can you easily run cables between the Wi-Fi Router's location and the modem?
- If you are connecting devices to the Ethernet ports, can you easily run cables between the Wi-Fi Router's location and those devices?
- If you want to install the Wi-Fi Router on a desktop, is there enough space on either side to keep the vents clear? Blocking the vents may cause overheating.
- How close are the wireless devices? In general, the Wi-Fi Router should be located close to the center of the user sphere. The Wi-Fi Router wireless connection range is typically 100–200 feet (30m–65m) for 2.4 GHz signals and less for 5 GHz signals. A number of factors can affect connection range, as described below.

Desktop Mounting Instructions

Position the Wi-Fi Router so that:

- Air flows freely around it.
- The back faces the nearest wall.
- It will not fall to the floor if bumped or moved.
- The sides of the unit are not blocked.

If the modem is not located in an ideal location for the Wi-Fi Router, you can add a RipCurrent Network Extender to the modem device, then connect the SBR-AC3200P to the Internet using the power line in another location.



Note: Clean the Wi-Fi Router using only a clean, slightly moistened, cloth. Do not use aerosols in the vicinity of the Wi-Fi Router.

Factors Affecting Wireless Range

A number of factors can affect the usable range for wireless connections.

Increase range	<ul style="list-style-type: none"> ■ Locating the unit centrally. ■ Creating as much "line-of-sight" as possible with client devices.
Decrease range	<ul style="list-style-type: none"> ■ Metal or concrete walls between the Wi-Fi Router and other devices. ■ Large metal appliances, aquariums, or metal cabinets between the Wi-Fi Router and other devices. ■ Interference and RF noise (2.4 GHz wireless phones, microwave ovens, wireless speaker/receiver systems, or other wireless networks). ■ Placing the device in a cabinet or other enclosed space.



Note: Decreasing the range of the wireless network may be beneficial, as long as the decreased range is sufficient for your needs. By limiting the network's range, you reduce interference with other networks and make it harder for unwanted users to find and connect to the network.



Note: Setting the transmit power level to High increases the range. Setting it to Medium or Low decreases the range proportionately. Medium or Low may be more appropriate for high-density residential locations.



Note: For locations within the home that do not receive a steady/stable Wi-Fi signal, simply add a RipCurrent Wi-Fi extender for full coverage in that location.

Ethernet, Wireless, or Gigabit Home Networking?

There are three ways to connect the computer (or other equipment) to the Wi-Fi Router. The following will help you decide which is best for you:

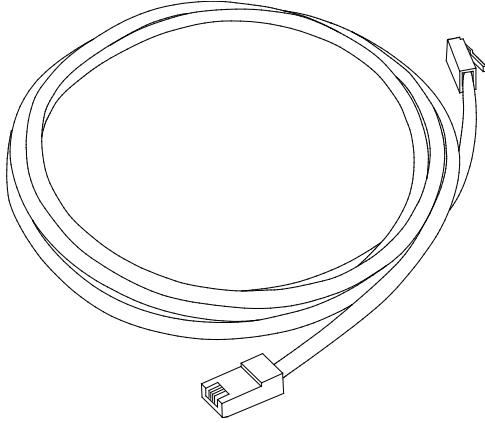
Ethernet

Ethernet is a standard method of connecting two or more computers into a Local Area Network (LAN). You can use the Ethernet connection if the computer has built-in Ethernet hardware. The SBR-AC3200P provides support for up to four such connected devices.



Note: To connect more than four computers to the SBR-AC3200P through the Ethernet ports, you need an Ethernet switch (available at computer retailers).

The Wi-Fi Router package comes with one 4-foot (1.2m) Ethernet cable (the connectors look like wide telephone connectors); you can purchase more cables if necessary at a computer retailer. If you are connecting the Wi-Fi Router directly to a computer, or to an Ethernet switch with a cross-over switch, ask for Category 5e (CAT5e) straight-through cable. CAT5e or Cat6 cable is required for gigabit Ethernet (Gig-E), not regular CAT5 cable.



Wireless

Wireless access lets you connect additional (wireless-capable) devices to the Wi-Fi Router. The 802.11 wireless LAN standard allows one or more computers to access the SBR-AC3200P using a wireless (radio) signal. These connections are in addition to the connections supported via Ethernet.



Note: You can use the wireless connection if the computer has a built-in or aftermarket plug-in wireless adapter. To learn more about which wireless hardware works best with the computer, see your computer dealer.

Gigabit Home Networking

Gigabit Home Networking lets you connect additional devices over power lines using the G.hn Power Line Communications Standards. G.hn also allows you to use your AC power lines to transmit and receive network communications from your SBR-AC3200P to clients connected to a G.hn Network Extender.

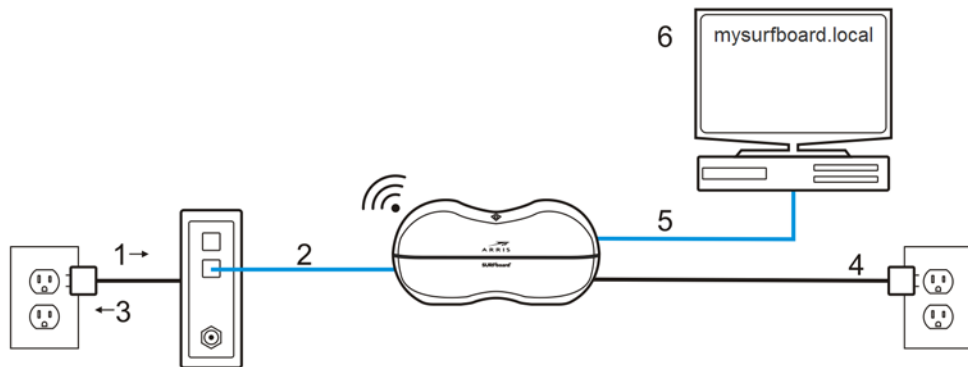
Combined

If you have two or more computers, you can use Ethernet for up to four devices and wireless or Gigabit Home Networking for the others. To connect five or more computers to the Ethernet ports, you will need an Ethernet switch (available at computer retailers).

Configuring and Installing the Wi-Fi Router

1. Unplug the power to turn off your modem.
2. Connect one end of the Ethernet cable (included) to the modem, and the other end to the WAN port on the Wi-Fi Router.
3. Reconnect the plug on the modem to turn the modem back on. Wait approximately 2 minutes to allow the modem to fully power up.

4. Connect the power adapter (included) to the power connector on the back of the Wi-Fi Router, and then connect the power adapter to an available AC outlet. Wait until the 2.4 GHz and 5 GHz LEDs on the rear panel of the Wi-Fi Router turn solid green.
5. To manage the setup of the Wi-Fi Router, you can use a second Ethernet cable (not provided) to connect a computer to an available LAN port on the SBR-AC3200P, or you can connect wirelessly by using the preset wireless security settings printed on the Wi-Fi Router's label located on the bottom of the Wi-Fi Router.
6. Open a browser on the computer to access the management interface of the Wi-Fi Router, and navigate to <http://mysurfboard.local>. If the webpage does not display correctly, try another browser.



Note: If you are connecting to an existing Wi-Fi modem or gateway, you must place that device in a 'bridged mode.' For more information, see the documentation for your Internet access device, or contact your service provider or device manufacturer.

Configuring the Wireless Connection

The SBR-AC3200P ships with a secure SSID that is unique for every device. Wi-Fi network information is located on the label on the bottom of the Wi-Fi Router. You should configure the Wi-Fi Router's wireless settings.



Note: At a minimum, you should set a login password and set up wireless security. See [Setting Up a Wireless Network Connection](#) (page 26) for complete instructions on configuring the wireless connection.

Setting up an Internet Connection



Important: Your computer may already be configured to automatically access the Internet. If so, do not change the network options on your computer. Please contact ARRIS Technical Support for assistance or verification.

If you cannot access the Internet after installing the Wi-Fi Router, you may have to manually set up your computer to connect to the Internet. To do this, you will have to enable the network options on your computer to automatically obtain an IP address and DNS server address. After configuring the network options, you should verify the IP address.

If you still cannot access the Internet after configuring the IP address, contact ARRIS Technical Support for assistance.

Please note, operating system-specific commands for configuring computer network options are not provided in this document. The same general steps provided below apply to the following Microsoft Windows operating systems:

- Windows 10.
- Windows 8.
- Windows 7.



Note: For Mac, UNIX, and Linux computers, please follow the instructions provided in the applicable user documentation.

If you are unfamiliar with the network configuration commands for your operating system or need assistance, we highly recommend that you refer to the user documentation for the operating system running on your computer for more information.

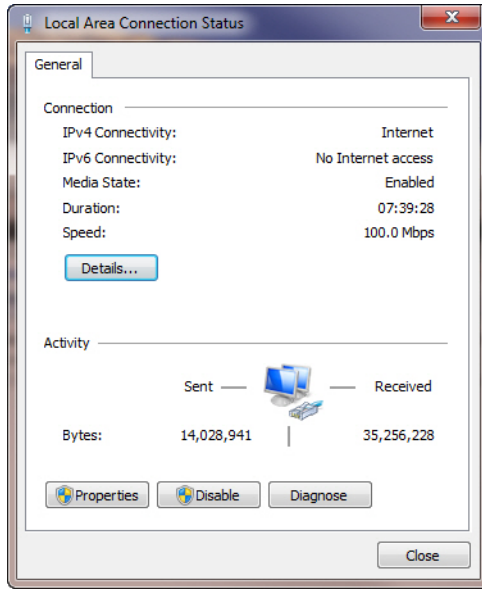
Configure Your IP Address



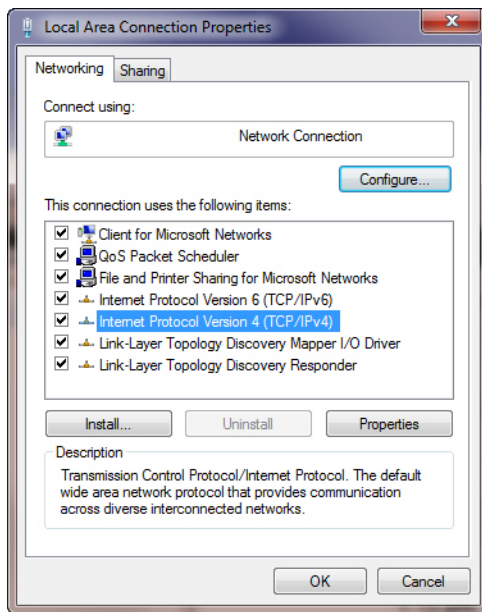
Note: The following instructions apply to Windows 7. Some windows and commands used in this procedure may differ slightly from your computer, depending on your operating system.

1. Click the Start button and use the Search box to search for **network and sharing**.
2. Select **Network and Sharing Center**.
3. Click **Change adapter settings** from the Control Panel Home pane to open the Network Connections window.

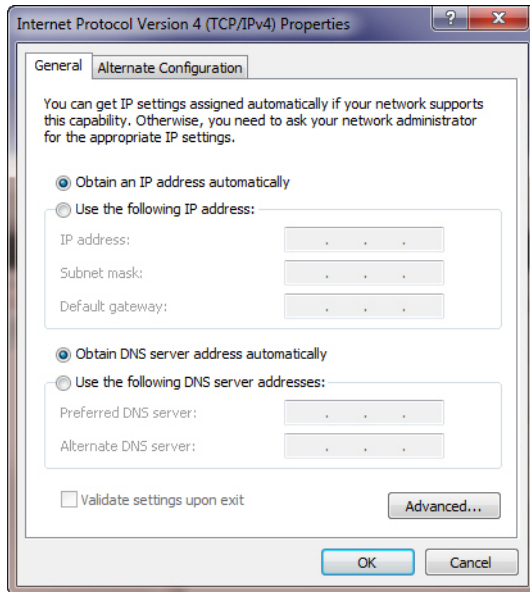
4. Click **Local Area Connection** to open the Local Area Connection Status window.



5. Click **Properties** to open the Local Area Connection Properties window.



6. Select **Internet Protocol Version 4 (TCP/IPv4)** and then click **Properties** to open the TCP/IPv4 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 close the Internet Protocol Properties window.
9. Close the remaining windows.

Verify & Renew Your IP Address

1. Open a command prompt window using the **Start** button and **Run** command from the Taskbar on your desktop.
2. Type **cmd** and click **OK** to open a command prompt window.
3. Type **ipconfig** and press **Enter** to display the IP configuration.
4. To renew the IP address, type **ipconfig/renew** and press **Enter**. A new IP address for your computer or other Ethernet-enabled device will display.
5. Type **exit** and then press **Enter** to return to Windows.

Setting Up a Wireless Network Connection

It is highly recommended that you first verify that your computer can connect to the Internet using an Ethernet connection before configuring your wireless network.

You must currently have access to an Internet service in your home before you can set up a wireless network connection. Also, make sure your computer and the SBR-AC3200P are connected through an Ethernet connection.

Choose **one** of the following options to set up your wireless network connection:

- [Launch the SBR-AC3200P Quick Start Wizard](#) (page 26).
- [Manually Connect to Your Wireless Network](#) (page 30).
- [Use the WPS Button to Connect Your WPS-Enabled Wireless Device](#) (page 30).

After setting up a wireless connection on your home network, check that your wireless network connection was set up properly. See [Test Your Wireless Network Connection](#) (page 30) for more information.

Launch the SBR-AC3200P Quick Start Wizard

The SBR-AC3200P Quick Start Wizard helps you to quickly configure your basic wireless network settings. Depending on your home network setup, you can further customize your wireless home network configuration after completing the wizard.

1. Open a web browser (Internet Explorer, Google Chrome, Firefox, or Safari) on the computer connected to the SBR-AC3200P.
2. Type the default LAN IP address **http://mysurfboard.local** in the Address bar and then press **Enter**. The Login screen appears.
3. Type the default username and password. Both entries are case-sensitive.

Username: **admin**

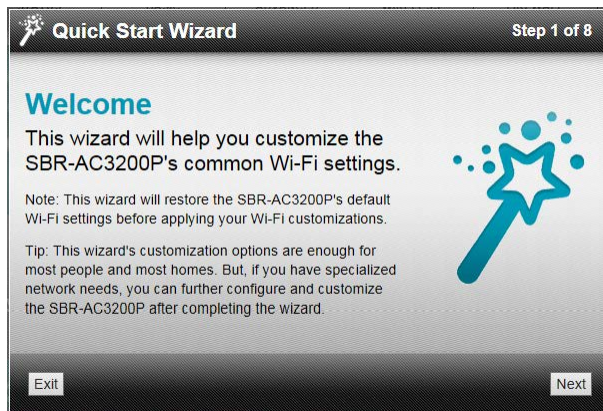
Password: **password**

- Click **Login** to open the SBR-AC3200P Web Manager. The Launch Quick Start Wizard screen appears.

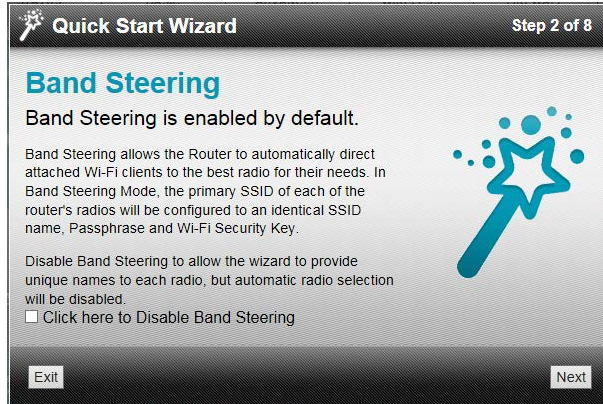


Note: If you have changed the default user name or password and cannot remember the new user name or password, you can reset the Wi-Fi Router to the factory default settings. To do this, insert a pointed, non-metallic object into the indented **Reset** button on the back of the SBR-AC3200P, then press and hold the button for more than 10 seconds. The Wi-Fi Router will be reset to its original factory settings, and any customized settings that you have set **will be lost**.

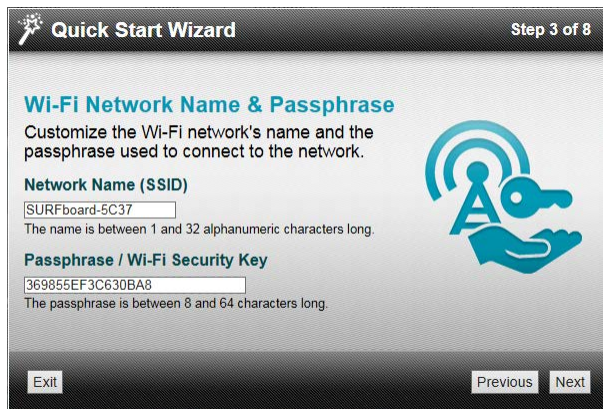
- Click **Launch Quick Start Wizard** to start the wizard. The Welcome screen appears.



- Click **Next**. The Quick Start Wizard asks if you want to disable Band Steering.



- Click **Next**. The Quick Start Wizard prompts you to enter a network name and passphrase.



- Enter a Network Name (SSID) for your wireless network. The network name must contain from one to 32 alphanumeric characters.
- Enter a Passphrase or Wi-Fi Security Key. This is the sign-on access code for your wireless network. The code must contain from 8 to 64 characters consisting of any combination of letters, numbers, and symbols.

Remember that your passphrase should be as unique as possible to protect your wireless network and deter hackers or unauthorized access to your network.

- Click **Next**. Network configurations are created for each band in your wireless network.



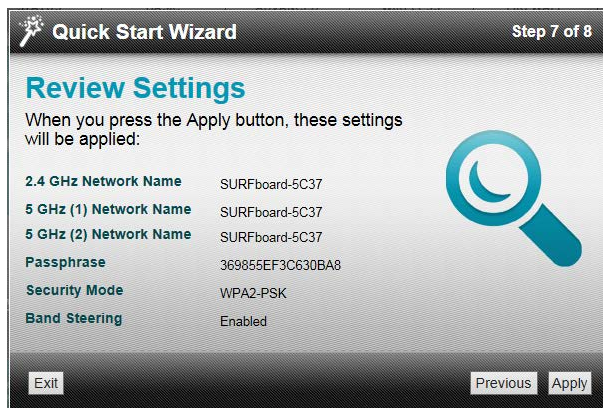
11. Click **Next**. The Wi-Fi security type is created. The WPA2-PSK security code is the strongest security default.



12. Click **Next**. The Quick Start Wizard prompts you to change the default username or password. If you do not change your username and password now, you can choose to change them later using the standard configuration screens.



13. Click **Next** to start the Wi-Fi Security mode. WPA2-PSK (the default security code) is automatically set, and the network settings are displayed.



14. Click **Apply** to accept or **Previous** to change the configuration.

Manually Connect to Your Wireless Network

You can use your Wi-Fi-enabled device to connect to the SBR-AC3200P by searching for the network name assigned to your network. The default network name is listed on the security label on the bottom of your Wi-Fi Router.

When prompted, enter your Wi-Fi Passcode to connect. The default passcode is listed on the security label on the bottom of your Wi-Fi Router.

Use the WPS Button to Connect Your WPS-Enabled Wireless Device

You can use the Wi-Fi Protected Setup (WPS) button on the Wi-Fi Router to connect your WPS-enabled wireless devices. WPS automatically assigns a random wireless network name (SSID) and Wi-Fi Security Key (password) to the SBR-AC3200P and other WPS-enabled wireless devices to connect to your wireless network.



Note: To use the WPS Pairing button option, your computer hardware must support WPS and also have WPA security compatibility.

1. Power ON the Wi-Fi Router and your other WPS-enabled wireless devices that you want to connect to your wireless network.
2. Press and hold the WPS pairing button located on the back of the SBR-AC3200P for five to 10 seconds and then release. See [Rear Panel](#) (page 16) for the location of the pairing button.
3. If applicable, press the WPS button on your WPS-enabled computer or other WPS-enabled wireless device.
4. Repeat step 3 for each additional WPS-enabled wireless device that you want to connect to your wireless network.

Test Your Wireless Network Connection

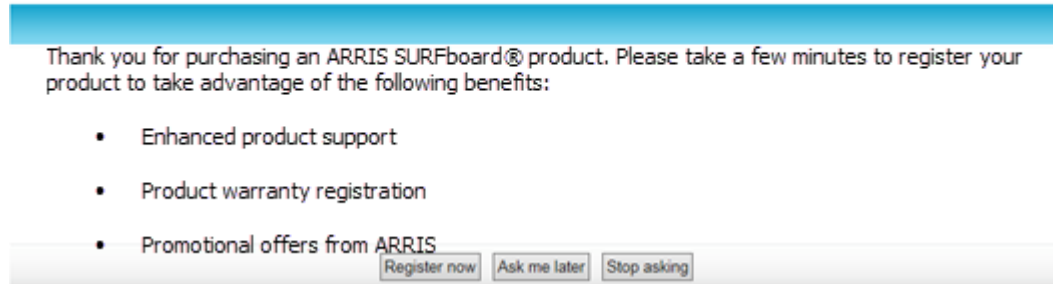
Perform the following connectivity test to confirm that your wireless connection is working on the SBR-AC3200P and your computer:

1. Disconnect the Ethernet cable, if connected, from the SBR-AC3200P and your computer.
2. Check that the **Wireless** LED on the SBR-AC3200P front panel is lit solid green.
3. Open a web browser on your computer, such as Internet Explorer, Google Chrome, Firefox, or Safari.
4. Type a valid URL (such as <http://www.surfboard.com>) in the address bar, and press **Enter**.
If the website failed to open, please contact your service provider or call ARRIS Technical Support at **1-877-466-8646** for assistance.

Register Your SBR-AC3200P

After you complete the Quick Start Wizard, the Web Manager prompts you to register your SBR-AC3200P.

Product Registration



1. Click **Register now** to register your SBR-AC3200P now.



Note: If you do not want to register your SBR-AC3200P right now, you can click **Ask me later**. The Web Manager will prompt you to register the next time you log into the Web Manager.



Note: If you do not want the Web Manager to prompt you to register again, click **Stop asking**. If you decide to register later, or if you need to update your registration, you can click **Status** from the configuration screen and select **Product Information** from the drop-down menu.

2. Follow the instructions on screen to register your SBR-AC3200P.

Connect Mobile Devices To Your Network

The SBR-AC3200P provides two simple ways that you can use to connect mobile devices to your network:

- *Use the ARRIS SURFboard Manager App* (page 36). When you first launch the app, you are prompted to scan the QR code on the bottom of the Wi-Fi Router.
- Use any QR code reader to scan the QR code on the bottom of your Wi-Fi Router.

After you scan the QR code, your default SSID and passkey are loaded into your phone. Follow the prompts on your screen to connect to your network.



Note: These two methods of connecting mobile devices only work if you are using the default SSID and passkey for your Wi-Fi Router and the default login for the Wi-Fi Router Web Manager.

Adding G.hn Extenders To Your Network

Whenever you plug multiple G.hn devices into a power outlet in your home, the devices will detect each other automatically and begin to communicate over your home's existing power lines. However, these devices will be communicating over an unsecured network.

In order to create a secure network, you must securely pair the devices with each other. *Secure pairing* creates a secure connection between two or more G.hn devices on a power grid. It also allows you to help secure your local area network (LAN) by randomizing your domain name and password. Once your devices are securely paired, then devices that have not been securely paired will not be able to connect to your network. We recommend that you securely pair your devices to secure your network.

Pairing Your SBR-AC3200P with a Network Extender

There must be at least two G.hn transmitters for the distribution network to function. Your router will need at least one companion device to use the RipCurrent feature. To take advantage of the SBR-AC3200P RipCurrent capability, please visit www.SURFboard.com for information on SURFboard Extender and Accessory products compatible with the technology.

Follow these steps to pair your SBR-AC3200P with a network extender to create a secured link.

1. Plug in your RipCurrent, or other G.hn Extender, into an AC outlet close to the SBR-AC3200P Router. The G.hn network will connect automatically in a non-secure mode (indicated by a RED status LED).



Note: Allow two minutes for devices to fully power up before pairing.

2. Press and hold the G.hn Secure Pairing button on the back of the Router for three seconds. The Pairing LED will blink green and become solid green when pairing is successful. (In some instances the pairing LED will blink until the Wi-Fi Hotspot is moved.)



Note: If your pairing is not successful, you can reset the G.hn settings for the Wi-Fi Router by pressing and holding the Pairing button for at least 15 seconds. Then, test your connection in unsecured mode before trying again to pair securely.

3. Press the Pairing button on the other G.hn device. (For a SURFboard extender, press and hold for three seconds). The Pairing LED will blink green and become solid green when pairing is successful.

The G.hn signal strength LED on the side of the SBR-AC3200P indicates the strength of the G.hn signal. If the LED is red or amber, consider adjusting the location to find a better signal.

LED Color	G.hn Signal Strength
Green	Excellent signal.
Amber	Good signal.
Red	Fair signal.

- Once the devices are securely paired (Green LED), you are now ready to connect your client device (PC, TV, Game Console, etc.) to the Extender using a wired or wireless connection (depending on the capability of your Extender model).

To repeat the connection and pairing process for additional wireless hotspots, press the pairing button on any connected G.hn device and on the new Wi-Fi Router or Network Extender.



Note: If you are creating a new network, all of your devices must be set to the factory default settings before you begin. You must reset any devices that have been previously installed.

If you are adding a Network Extender to an existing network, then the Extender must be set to the factory settings, but the Router does not need to be reset. For more details, see the Quick Start Guide for your Extender.

Creating a Custom Domain Name and Password to Pair Your SBR-AC3200P

In most cases, when you pair your SBR-AC3200P with a network extender, the domain name and password are randomly generated and assigned to your network. If you prefer, you can follow these instructions to create your own domain name and password for your network.



Note: You must use the default user name and password (listed below) to log in to the SBR-AC3200P Web Manager for the first time. For network security purposes, we highly recommend that you change the default user name and password after logging onto the SBR-AC3200P for the first time. See [Change the Default User Name and Password](#) (page 53) for more information.

- Open any web browser on the computer connected to the SBR-AC3200P.
- In the Address bar, type **http://mysurfboard.local** for the IP address, and then press **Enter**. The Login screen appears.
- Type the default user name and password. Both entries are case-sensitive.

Username: **admin**

Password: **password**

- Click **Login** to open the SBR-AC3200P Web Manager. The SBR-AC3200P Main Screen appears.
- Click **Advanced** on the SBR-AC3200P Main Menu, and click **RipCurrent (G.hn)** from the Advanced submenu options.

Basic settings			
MAC address			
Node type*			
G.hn profile			

Encryption Configuration			
Enable G.hn	<input type="checkbox"/> Enabled		
Encryption			▶ Help
Domain Name	<input type="text" value="HomeGrid"/>		▶ Help
Pairing password	<input type="text"/>		▶ Help
Automatic configuration*:	<input type="button" value="PAIR"/>	<input type="button" value="UNPAIR"/>	▶ Help
<input type="button" value="Apply"/>			

Available Connections			
Device ID	MAC Address	Phy Tx(Mbps)	Phy Rx(Mbps)

- In the Domain Name field, enter the domain name that you want to assign to your network.
- In the Pairing password field, enter the pairing password that you want to assign to your network.
- Click **Apply**.
- Plug the network extender into an electrical outlet near the SBR-AC3200P.
- You must manually enter the same domain name and password into any new extenders that were added to your RipCurrent network in order to create a secure connection. The pairing process begins. Once the pairing process is complete, both LEDs stop flashing and become solid green. It may take up to 60 seconds for the pairing process to complete.
- Use an Ethernet cable to connect the network extender to its client device.

Unpairing Your SBR-AC3200P

Follow these steps if you need to unpair the SBR-AC3200P from the network extender.



Note: You must use the default user name and password (listed below) to log in to the SBR-AC3200P Web Manager for the first time. For network security purposes, we highly recommend that you change the default user name and password after logging onto the SBR-AC3200P for the first time. See [Change the Default User Name and Password](#) (page 53) for more information.

- Open any web browser on the computer connected to the SBR-AC3200P.

2. In the Address bar, type **http://mysurfboard.local** for the IP address, and then press **Enter**. The Login screen appears.
3. Type the default user name and password. Both entries are case-sensitive.
Username: **admin**
Password: **password**
4. Click **Login** to open the SBR-AC3200P Web Manager. The SBR-AC3200P Main Screen appears.
5. Click **Advanced** on the SBR-AC3200P Main Menu, and click **RipCurrent (G.hn)** from the Advanced submenu options.
6. Click **UNPAIR**. All of the paired devices will be disconnected from the SBR-AC3200P, and any client devices that are connected to network extenders will lose connection to the Internet. The domain name and password will also be deleted as well.

Managing Your Wi-Fi Router and Connected Networks

Use the ARRIS SURFboard Manager app or the SBR-AC3200P Web Manager to view and monitor the configuration settings and operational status of your Wi-Fi Router.

You can also use the SBR-AC3200P Web Manager to configure your network connections and wireless security settings. See [Protecting & Monitoring Your Wireless Network](#) (page 53) for more information.

Use the ARRIS SURFboard Manager App

The ARRIS SURFboard Manager app is available for Android™ and Apple® mobile devices at no charge. You can download it on Google Play™ or from the App Store®.

The app lets you manage the SBR-AC3200P directly from your mobile devices. Use the ARRIS SURFboard Manager to view connected devices on your network, manage parental controls, and set other network parameters. Once you have connected your mobile device to the SBR-AC3200P, then you can view and manage the SBR-AC3200P either locally on the network or remotely.

The ARRIS SURFboard Manager lets you scan the QR code on your Wi-Fi Router's security label to automatically connect the Wi-Fi Router with your mobile device.

The SBR-AC3200P Quick Start Guide also includes QR codes to download this User Guide or connect to the ARRIS Everywhere YouTube channel.



Note: In order to connect your mobile device to the SBR-AC3200P using the QR code, your network must be using the default network name and Wi-Fi security password.

You can download the ARRIS SURFboard Manager on Google Play or from the App Store. Follow the instructions in the app to connect and manage your Wi-Fi Router.



Start the Wi-Fi Router Web Manager



Note: You must use the default user name and password (listed below) to log in to the SBR-AC3200P Web Manager for the first time. For network security purposes, we highly recommend that you change the default user name and password after logging onto the

SBR-AC3200P for the first time. See [Change the Default User Name and Password](#) (page 53) for more information.

1. Open any web browser on the computer connected to the SBR-AC3200P.
2. In the Address bar, type **http://mysurfboard.local** for the IP address, and then press **Enter**. The Login screen appears.
3. Type the default user name and password. Both entries are case-sensitive.
Username: **admin**
Password: **password**
4. Click **Login** to open the SBR-AC3200P Web Manager. The SBR-AC3200P Main Screen appears.



Note: If you have changed the default user name or password and cannot remember the new user name or password, you can reset the Wi-Fi Router to the factory default settings. To do this, insert a pointed, non-metallic object into the indented **Reset** button on the back of the SBR-AC3200P, then press and hold the button for more than 10 seconds. The Wi-Fi Router will be reset to its original factory settings, and any customized settings that you have set **will be lost**.



Wi-Fi Router Web Manager Menu Options

Main Menu Buttons

The SBR-AC3200P main menu buttons are displayed along the top of the SBR-AC3200P Web Manager screen. To display the drop-down submenu options, click the menu button.



Main Menu Links

The SBR-AC3200P main menu and related submenu option links are also displayed along the bottom of the SBR-AC3200P Web Manager screen. To open a submenu option, click the link.

HOME	STATUS	BASIC	ADVANCED	WIRELESS	FIREWALL	HELP
	Product Information	Setup	Options	802.11 Radio	Protection Level	Overview
	Security	DHCP	IP Filtering	Primary Network Settings	Parental Control	About
	Diagnostics	DHCPv6	MAC Filtering	Guest Network Settings	Local Log	
	Event Log	IPv6	Port Filtering	Access Control		
	Router Upgrade	DDNS	Port Triggers	Quality of Service		
		Backup and Restore	Port Forwarding	Media		
		USB Connect	DMZ Host	Advanced		
		LED Control	Wireless Extender			
		Time Zone	RipCurrent™ (G.hn)			
			IQoS			

Menu Option	Function
Home	Displays the Quick Start Wizard main screen.
Status	Provides information about the Wi-Fi Router hardware and software, MAC address, Wi-Fi Router IP address, serial number, and related information. Additional screens provide diagnostic tools and also allow you to change your Wi-Fi Router user name and password.
Basic	Configures the Wi-Fi Router IP-related configuration data, including Network Configuration, WAN Connection Type, DHCP, and DDNS.
Advanced	Controls Internet protocols which configure and monitor how the Wi-Fi Router routes IP traffic on the SBR-AC3200P.
Wireless	Configures and monitors the Wi-Fi Router wireless networking features.
Firewall	Configures and monitors the Wi-Fi Router firewall.

Menu Option	Function
Help	Provides general information to help you set up your home network.
Logout	Closes the SBR-AC3200P Web Manager.

Get Help

You can choose any of the following three options to obtain help information for any SBR-AC3200P Web Manager function. General help information is available for any SBR-AC3200P menu option when you click the **Help** button on that page.

- [Help Overview](#) (page 39).
- [Help Links](#) (page 40).
- [Field Level Help](#) (page 40).

Help Overview

General help information is available when you click **Help, Overview** on the SBR-AC3200P Main Menu.

Help - Overview

There are two ways to connect a device to the network: **wired** and **wireless**. Both have their strengths and weaknesses.

Wired Connections

Wired connections using Ethernet (also called Cat-5 cables) are easy to install and provide the fastest data connections. However, devices need to be close to the SBR-AC3200P or you need to have cables in place and the device cannot be easily moved around while you are using it.

If you can use a wire to connect the device, Ethernet is your best option. To connect a device using an Ethernet cable, plug one end of the cable into the SBR-AC3200P and the other end into the device you are connecting. That's it, you're done. No changes are needed in the SBR-AC3200P and you probably will not need to make changes to the device.

Wireless Connections

Wireless connections (also called Wi-Fi or 802.11) are flexible and more than fast enough for most of the common uses of the network, especially when 802.11n is used. The most important thing to ensure is that wireless security is enabled.

The placement of the SBR-AC3200P is also important to have the best performance. The SBR-AC3200P should be placed in as central a location within your home as possible.

The easiest way to set up the wireless network is to use the quick start wizard on the home page. This page has all of the settings that you need to set up your SBR-AC3200P.

First, select a name for your network. You should choose a name that is easy to remember but is also unique. This name is how devices know which network to join.

Second, select a passphrase that will be used to protect your wireless network from intruders and eavesdroppers. Again, this should be a unique phrase that is easy to remember but not easy for someone to guess.

You now have the wireless network set up. Next you need to put the network passphrase into each of the devices that you wish to connect to the network. Once this is done, these devices can join the network whenever they are in range of the SBR-AC3200P.

Help Links

Provides a concise list of your configuration settings with applicable links for easy access when you click **Help, About** on the SBR-AC3200P Main Menu. The link opens the related configuration screen.

Help - About This SBR-AC3200P

Your ARRIS SBR-AC3200P is one of the most advanced router available. Most common problems are easily solved by using the setup wizard and following the instructions provided on the setup pages. Occasionally you may need to call your service provider for assistance. When you do, the information displayed below will help provide a speedy resolution to your problem.

My SBR-AC3200P's serial number is **F73RU7222200016**.

The MAC Address is **3C:DF:A9:D9:5C:37**.

The [firmware Version](#) is **1.0.2-G00**

The SBR-AC3200P has been running for **00 days 00h:04m:28s**

The [primary network](#) has **1** clients.

The [DDNS service](#) is **disable**.

[IP Filtering](#) is configured for **0** IP addresses.

[MAC Filtering](#) is **disable**.

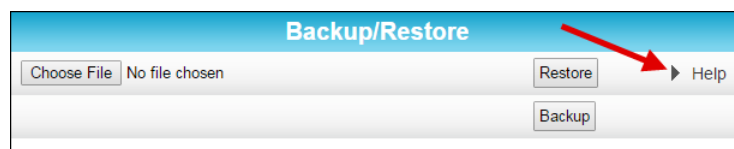
[Port Filtering](#) is **disable**.

[Port Forwarding](#) is **disable**.

The [DMZ Host](#) is **disable**.

Field Level Help

More specific help information is available throughout the web manager for field level help when you click **Help** located to the right of the applicable field (see sample screenshot below).



View the Wi-Fi Router Product Information

The Status Product Information screen displays general product information, including the software (or firmware) version and the current network connection status of the Wi-Fi Router.

To open the Status Product Information page:

1. Click **Status** on the SBR-AC3200P Main Menu.
2. Click **Product Information** from the Status submenu options.

- Click the **Refresh** button (F5) in your web browser to reload the information on the screen.

Information	
Hardware Version	REV.1
Software Version	1.0.0-B01
Router MAC Address	3C:DF:A9:D9:5C:37
Serial Number	F73RU7222200016

Status	
Up Time	00 days 00h:12m:53s
Router IP Address	---

Test Your Connection

The Status Diagnostics screen lets you perform a series of tests to make sure that your SBR-AC3200P is connected and displays information about the ping test parameters.

To run a ping test:

- Click **Status** on the SBR-AC3200P Main Menu.
- Click **Diagnostics** from the Status submenu options.

The screenshot shows a web interface for running a ping test. At the top, there's a 'Select Utility' section with a dropdown menu currently set to 'Ping LAN'. Below that is the 'Ping Test Parameters' section, which contains four rows of input fields: 'Target' (with four empty boxes for IP address), 'Ping Size' (set to 64 bytes), 'No. of Pings' (set to 3), and 'Ping Interval' (set to 1 s). At the bottom of this section are three buttons: 'Start Test', 'Abort Test', and 'Clear Results'. Below the buttons is a large, empty rectangular box with a vertical scrollbar, intended for displaying the results of the ping test.

- In the Select Utility section, select the kind of test that you want to run.
- In the Ping Test Parameters section, set the parameters that you would like to use for your test.
- Click **Start Test** to begin the test. The results will appear in the box at the bottom of the screen.

Set Up DHCP

The Basic DHCP screen lets you manually assign IP addresses to devices on your LAN.

To configure your LAN:

1. Click **Basic** on the SBR-AC3200P Main Menu.
2. Click **DHCP** from the Basic submenu options.

LAN Network Configuration			
LAN IP Address	192 . 168 . 0 . 1		▶ Help
Enable DHCP Server	<input checked="" type="checkbox"/> Enabled		▶ Help
Starting Local Address	192.168.0.2		▶ Help
Max Number of Network Devices	253		▶ Help
Lease Time	86400		▶ Help
Apply			

Reserved IP Client List		
IP Address	Name	MAC Address
Add Delete		

Attached Client List				
	IP Address	Name	MAC Address	Type
<input type="radio"/>	192.168.0.2	LP-BLEWIS-01	28:D2:44:8A:98:C5	Ethernet
Refresh Reserve				

3. In the LAN Network Configuration section, choose the settings that you would like to apply to your LAN, and click **Apply**.
4. In the Reserved IP Client List section, click **Add** to set up a list of IP addresses that you want to reserve.
5. In the Attached Client List section, select the IP address of any clients that you want to reserve, and click **Reserve**.

Set Up Dynamic DNS

The Basic DDNS screen uses dynamic DNS to let you give your SBR-AC3200P a "friendly" name, for example, in case you are setting up a web server in the home. Most users will not need to set up dynamic DNS.

If you do need to set up dynamic DNS:

1. Click **Basic** on the SBR-AC3200P Main Menu.

- Click **DDNS** from the Basic submenu options.

DDNS		
DDNS Service	Disabled	▶ Help
Username	<input type="text"/>	▶ Help
Password	<input type="text"/>	▶ Help
Host Name	<input type="text"/>	▶ Help
IP Address	0.0.0.0	▶ Help
Status	DDNS server is not enabled.	▶ Help
<input type="button" value="Apply"/>		

- In the DDNS Service field, select the DDNS service that you are using.
- In the Username field, type the username associated with the DDNS account.
- In the Password field, type the password associated with the DDNS account.
- In the Host Name field, type the "friendly" name that you want to assign to your SBR-AC3200P.
- Click **Apply** to save your changes.

View Your IPv6 Configuration

The Basic IPv6 screen shows the IP address, MAC address, and reachability status of your Wi-Fi Router.

To view your IPv6 configuration:

- Click **Basic** on the SBR-AC3200P Main Menu.
- Click **IPv6** from the Basic submenu options.

Stateless Auto Configuration		
IP Address	MAC Address	Reachability State
Not Find Global IPv6	3C:DF:A9:D9:5C:36	Failure

View Your USB Configuration and Status Information

The Basic USB Connect screen shows the USB configuration and status information for your Wi-Fi Router.

To view your USB configuration and status information:

- Click **Basic** on the SBR-AC3200P Main Menu.

- Click **USB Connect** from the Basic submenu options.

Configuration		
Network Attached Storage (NAS) Samba Service	<input checked="" type="checkbox"/> Enable	► Help
DLNA Media Server	<input checked="" type="checkbox"/> Enable	► Help
<input type="button" value="Apply"/>		

Status		
NAS Share Path	\\192.168.0.1	► Help
MediaServerName	SURFboard-MediaServer	► Help

Disable LEDs on the Back Panel

The Basic LED Control screen lets you disable the LEDs on the back panel of your Wi-Fi Router, if you want.

To disable the LEDs on the back panel:

- Click **Basic** on the SBR-AC3200P Main Menu.
- Click **LED Control** from the Basic submenu options.

LED Control		
LEDs	Enabled <input type="button" value="v"/>	► Help
<input type="button" value="Apply"/>		

- In the LEDs field, select **Disabled**.
- Click **Apply**.

Adjust Your Time Zone

You can adjust your time zone if necessary so that the SBR-AC3200P is set to the correct local time. You can also choose to adjust for Daylight Saving Time automatically.

To disable the LEDs on the back panel:

- Click **Basic** on the SBR-AC3200P Main Menu.
- Click **Time Zone** from the Basic submenu options.

Time Zone		
Current Time	18:48:11 12/31/1969	
Current Time Zone	(GMT-06:00) Central Time(USA, Canada) <input type="button" value="v"/>	
Automatically adjust for Daylight Saving Time	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<input type="button" value="Apply"/>		

- Select your time zone from the Current Time Zone drop-down box.
- Select **Yes** or **No** to automatically adjust the time for Daylight Saving Time.
- Click **Apply**.

Set Up Your Primary Wireless Network

1. Click **Wireless** on the SBR-AC3200P Main Menu.
2. Click **Primary Network Settings** from the Wireless submenu options.

2.4 GHz Wi-Fi Network		
Wireless Network	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	▶ Help
Network Name (SSID)	<input type="text" value="SURFboard-5C37"/>	▶ Help
Network Name (SSID) Broadcast	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	▶ Help
Wireless Security	<input type="text" value="WPA2-PSK"/> ▼	▶ Help
WPA2-PSK Security Settings		
Encryption	<input checked="" type="radio"/> AES <input type="radio"/> AES+TKIP	▶ Help
Passphrase	<input type="text" value="369855EF3C630BA8"/>	▶ Help
Wi-Fi Protected Setup (WPS) Automatic Security Configuration		
WPS	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	▶ Help
WPS Add Client (Push Button Method)	Press the button on the SBR-AC3200P to start WPS pairing.	▶ Help
WPS Add Client (Gateway PIN Method)	<input type="text" value="10563946"/> <input type="button" value="Generate PIN"/>	▶ Help
Configure by External Registrar	<input type="text" value="Allow"/> ▼	▶ Help
WPS Add Client (Client PIN Method)	<input type="text"/> <input type="button" value="Add"/>	▶ Help
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>		

3. Select the tab for the band whose settings you want to configure.
4. Select **Enabled** or **Disabled** in the Wireless Network field to turn ON or OFF wireless networking on your home network.
5. Do one of the following to set the network name for your wireless network in the Network Name (SSID) field:
 - Keep the default network name listed in the field (also listed on your gateway label).
 - Enter a different name for your primary network.

The wireless network name must be different from any other network name on your home network. You can use any combination of letters (lowercase and uppercase), numbers, and/or special characters (symbols); 32 characters maximum.
6. Select **Enabled** or **Disabled** in the Network Name (SSID) Broadcast field to turn On or Off showing your SSID as an available network.

When SSID Broadcast is enabled, your SSID is visible to wireless clients that are within range of your home network to connect to it.

When SSID broadcast is disabled, your SSID is not visible to unauthorized wireless clients.
7. Select one of the following **Wireless Security** modes for your wireless gateway from the Security Mode drop-down list:
 - **WPA2-PSK:** Wi-Fi Protected Access version 2 with Pre-Shared Key. Provides the best security for your network (recommended).
 - **WPA2-PSK + WPA-PSK:** combination Wi-Fi Protected Access version 2 with Pre-Shared Key and Wi-Fi Protected Access with Pre-Shared Key.

- **Unencrypted:** network security is not set for your wireless network. This allows access to your wireless network without a Wi-Fi Security key.
 - **WPA-PSK:** combination Wi-Fi Protected Access with Pre-Shared Key and Wi-Fi Protected Access with Pre-Shared Key.
 - **WPA2 (Enterprise):** Wi-Fi Protected Access version 2 provides additional network security and requires a user name and password for network logon.
 - **WPA2 + WPA (Enterprise):** combination Wi-Fi Protected Access version 2 and Wi-Fi Protected Access provides additional network security and requires a user name and password for network logon.
8. Choose the **Encryption** type for your wireless network in the Encryption field:
 - **AES** – Advanced Encryption Standard: Provides the strongest encryption (recommended).
 - **AES+TKIP** – Advanced Encryption Standard and Temporal Key Integrity Protocol: Allows both AES and TKIP-capable clients to connect to your wireless network.
 9. Enter your wireless network password in the Passphrase field. You can use any combination of letters, numbers, and/or special characters.
 10. Click **Apply**.

Set Up a Guest Wireless Network

If you wish, you can set up your Wi-Fi Router to host a guest network. By doing so, you can give your guests access to part of your wireless network, yet still keep certain parts private.

To set up a guest network:

1. Click **Wireless** on the SBR-AC3200P Main Menu.

- Click **Guest Network Settings** from the Wireless submenu options.

2.4 GHz Wi-Fi Network Settings & Security		
Selected Guest Network	SURFboard-GUEST0-1(Not Find MAC) ▾	▶ Help
Guest Network	Disabled ▾	▶ Help
Guest Network Name (SSID)	SURFboard-GUEST0-1	▶ Help
IP Network	Guest ▾	▶ Help
IP Address	192.168.1.1	▶ Help
Lease Pool Starting IP Address	192.168.1.2	▶ Help
Lease Pool Ending IP Address	192.168.1.254	▶ Help
Lease Time	86400	▶ Help
UPnP Enable	Enabled ▾	
Firewall Enable	Enabled ▾	
DHCPv6 Server	Enabled ▾	
Wireless Security	WPA2-PSK + WPA-PSK ▾	▶ Help
WPA2-PSK + WPA-PSK Security Settings		
Encryption	AES ▾	▶ Help
Passphrase	•••••••• Show Passphrase <input type="checkbox"/>	▶ Help
<input type="button" value="Apply"/> <input type="button" value="Restore Guest Network Defaults"/>		

- Select the tab for the band whose settings you want to configure.
- Select the guest network from the Selected Guest Network drop-down list.
- Select **Enabled** or **Disabled** in the Guest Network field to turn ON or OFF the selected wireless guest network.
- Do one of the following to set the network name for your wireless network in the Network Name (SSID) field:
 - Keep the default network name listed in the field.
 - Enter a different name for your guest network.

The wireless network name must be different from any other network name on your home network. You can use any combination of letters (lowercase and uppercase), numbers, and/or special characters (symbols); 32 characters maximum.
- Select **LAN** or **Guest** from the IP Network drop-down list.
 - LAN** – Configures the guest network to be part of your primary network and allow guest users to connect to your primary network.
 - Guest** – Configures the guest network to only allow access to a specific network and not your primary network.
- Enter the IP address for the SBR-AC3200P on the Guest network in the IP Address field.
- Enter the first IP address of the range of IP addresses for the guest network lease pool in the Lease Pool Starting IP Address field. These are IP addresses that the SBR-AC3200P assigns to devices on your guest network.
- Enter the last IP address of the range of IP addresses for the guest network lease pool in the Lease Pool Ending IP Address field.

11. Enter the amount of time (in seconds) that an IP address will be available to a device on your guest network in the Lease Time field.
12. Select **Enabled** or **Disabled** in the UPnP (Universal Plug and Play) Enable field to allow or block any network devices, such as computers, smart phones, tablets, gaming devices, or printers to automatically connect to your home network.
13. Select **Enabled** or **Disabled** in the Firewall Enable field to turn ON or OFF the gateway firewall.
14. Select **Enabled** or **Disabled** in the DHCPv6 Server field to allow the DHCP server to send leases to the guest network clients from the guest network lease pool you specified earlier.



Note: If the DHCP server is disabled, you must assign static IP addresses to the guest network stations.

15. Select one of the following wireless network security options for your wireless network from the Wireless Security drop-down list:
 - **WPA2-PSK:** Wi-Fi Protected Access version 2 with Pre-Shared Key. Provides the best security for your network (recommended).
 - **WPA2-PSK + WPA-PSK:** combination Wi-Fi Protected Access version 2 with Pre-Shared Key and Wi-Fi Protected Access with Pre-Shared Key.
 - **Unencrypted:** network security is not set for your wireless network. This allows access to your wireless network without a Wi-Fi Security key.
 - **WPA-PSK:** combination Wi-Fi Protected Access with Pre-Shared Key and Wi-Fi Protected Access with Pre-Shared Key.
 - **WPA2 (Enterprise):** Wi-Fi Protected Access version 2 provides additional network security and requires a user name and password for network logon.
 - **WPA2 + WPA (Enterprise):** combination Wi-Fi Protected Access version 2 and Wi-Fi Protected Access provides additional network security and requires a user name and password for network logon.
16. Choose the wireless network encryption type in the Encryption field:
 - **AES** – Advanced Encryption Standard: Provides the strongest encryption (recommended).
 - **TKIP+AES** –Temporal Key Integrity Protocol and Advanced Encryption Standard: Allows both AES and TKIP-capable clients to connect to your wireless network.
17. Enter any combination of characters and letters for the wireless guest network password in the Passphrase field.
18. Select **Show Passphrase** to display your password while you type.
19. When done, deselect **Show Passphrase** so that your password will not be visible.
20. Click **Apply**.

Configure Your Wi-Fi Radio

Network interference can occur at any time when using a wireless network connection. This may be caused by other wireless access points that are using the same wireless channel as

your SBR-AC3200P and are also operating within close proximity in your home. If you experience wireless network interference, try changing the wireless channel on the SBR-AC3200P to improve network connectivity (or signal strength) and avoid network interference. By default, your SBR-AC3200P is set to choose a channel automatically.

To change the wireless channel on the SBR-AC3200P:

1. Click **Wireless** on the SBR-AC3200P Main Menu.
2. Click **802.11 Radio** from the Wireless submenu options.

Wireless Radio Enable	Disabled	
Output Power	100%	▶ Help
802.11 Mode	b/g/n mode	▶ Help
Bandwidth	40 MHz	Current Bandwidth: 20 MHz ▶ Help
Sideband	Lower	Current Sideband: Lower
Channel	Auto	Current Channel: 1

Apply Restore Wireless Defaults

Scan Wireless APs

3. Select the tab for the band whose settings you want to configure.
4. Select **Enabled** from the Wireless Radio Enable drop-down list to turn ON the Wi-Fi Radio on the SBR-AC3200P.
5. Select a new channel number from the Channel drop-down list.
6. Click **Apply**.

Back Up Your Wi-Fi Router Configuration

You can save a backup copy of the current configuration settings to your local computer. You can use the backup file to restore your custom settings in the event that you made changes that you no longer want.



Caution: We highly recommend that you perform the configuration backup using the SBR-AC3200P default login username and password.

To create a backup copy of your configuration settings:

1. Click **Basic** on the SBR-AC3200P Main Menu.
2. Click **Backup and Restore** from the Basic submenu options.

Backup/Restore

Choose File No file chosen Restore ▶ Help

Backup

3. Click **Backup** to create a backup file of your SBR-AC3200P configuration settings. Follow the on-screen prompts to save the configuration file.

Restore Your Gateway Configuration Settings



Caution: This action will delete your current SBR-AC3200P configuration settings and allow you to restore a previously saved gateway configuration.



Note: After the configuration settings are restored, the SBR-AC3200P will automatically reboot and you will have to log on using the default username (admin) and password (password).

1. Click **Basic** on the SBR-AC3200P Main Menu.
2. Click **Backup and Restore** from the Basic submenu options.
3. Click **Browse** to search for a previously saved configuration file from the Downloads folder on your computer.
4. Click **Restore**. The SBR-AC3200P will automatically reboot.

Reset the SBR-AC3200P Configuration Settings

You can reset your SBR-AC3200P configuration back to the factory default configuration. There are two options available for resetting the SBR-AC3200P:

- Use a pointed, non-metallic object to press the Reset button on the back of the SBR-AC3200P. Hold the button for more than 10 seconds to reset the SBR-AC3200P to factory default settings and reboot. See [Rear Panel](#) (page 16) for more information.
- Use the SBR-AC3200P Web Manager. Follow the steps below.

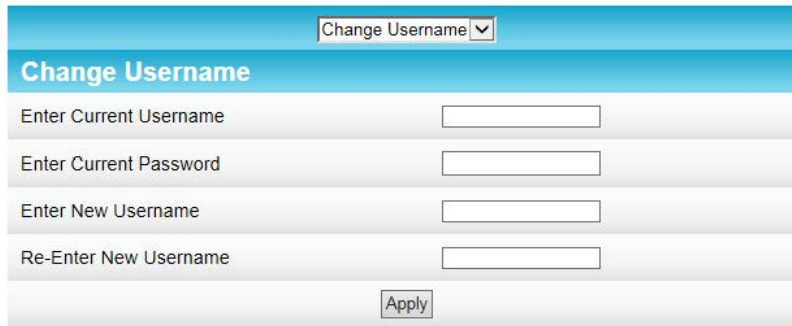


Caution: This process deletes your current user name, password, and any custom gateway configurations you may have already set up. We recommend that you create a backup copy of your configuration before resetting the SBR-AC3200P. See [Back Up Your Wi-Fi Router Configuration](#) (page 49) for more information.

From the SBR-AC3200P Web Manager, do the following to open the Status Security screen:

1. Click **Status** on the SBR-AC3200P Main Menu.

2. Click **Security** from the Status submenu options.



Change Username

Change Username

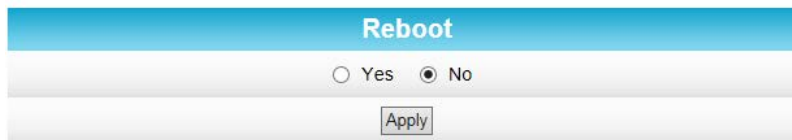
Enter Current Username

Enter Current Password

Enter New Username

Re-Enter New Username

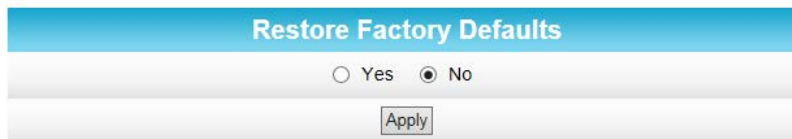
Apply



Reboot

Yes No

Apply



Restore Factory Defaults

Yes No

Apply

3. Select **Yes** under Restore Factory Defaults.
4. Click **Apply**. A message appears, telling you to reboot the modem for the new settings to take effect.
5. Click **OK**.
6. Click **Status** on the SBR-AC3200P Main Menu.
7. Click **Configuration** from the Status submenu options to display the Status Configuration screen.
8. Click **Reboot**.
9. Log back in using the default username and password.
 - Username: **admin**
 - Password: **password**

Update Your Wi-Fi Router Firmware

You can update the firmware on your SBR-AC3200P Wi-Fi Router when ARRIS releases new firmware versions. The new firmware releases may contain updates for operational improvements or resolutions to problems. These updates will not delete or overwrite your personal user settings such as your password.

You can download the latest firmware release from <http://www.SURFboard.com/Support/SBR-AC3200P>. To load the new firmware release onto your SBR-AC3200P Wi-Fi Router:

1. Click **Status** from the configuration screen and select **Router Upgrade** from the drop-down menu.



2. Click **Browse** to locate the new firmware file.
3. Select the new firmware file and click **Open**.
4. Click **Upload** to load the new firmware onto your SBR-AC3200P Wi-Fi Router.

Exit the SBR-AC3200P Web Manager

To log out and close the SBR-AC3200P Web Manager:

- Click **Logout** located in the upper right corner of the SBR-AC3200P Web Manager window.

Protecting & Monitoring Your Wireless Network

After you have successfully connected the SBR-AC3200P and your wireless devices, you should configure the Wi-Fi router to protect your wireless network from unwanted and unauthorized access by any wireless devices that are within range of your wireless network. Although security for the SBR-AC3200P is already configured, you can use the SBR-AC3200P Web Manager to set the level of security and access that you want on your home network.

Prevent Unauthorized Access



Caution: To prevent unauthorized access and configuration to your wireless network, we highly recommend that you immediately change the default user name and password after connecting to the Internet and logging on to the SBR-AC3200P for the first time.

One of the most important recommendations for securing your wireless home network is to change the default administrator password on your SBR-AC3200P and other wireless devices as well. Default passwords are commonly used and shared on the Internet.

To ensure that your wireless home network is secure, it is recommended that you follow these best practices for user passwords:

- Always create a secure password or pass phrase that is not easily guessed.
- Use phrases instead of names so that it may be easier for you to remember.
- Use a combination of upper and lowercase letters, numbers, and symbols.
- Continue to change your administrator password on a regular basis.

Change the Default User Name and Password

1. Open any web browser on the computer connected to the SBR-AC3200P.
2. In the Address bar, type **http://mysurfboard.local** for the IP address, and then press **Enter**. The Login screen appears.
3. Type the default user name and password. Both entries are case-sensitive.
Username: **admin**
Password: **password**
4. Click **Login** to open the SBR-AC3200P Web Manager. The SBR-AC3200P Main Screen appears.
5. Click the **Status** menu button and then click **Security** to display the Status Security screen.
6. Confirm that Change Username is displayed in the drop-down selection box.

- Complete each field entry, but note the following:
 - All fields (for example, Current Username & Current Password) are case-sensitive.



Note: The first time that you log in, the Current Username is **admin** and the Current Password is **password**.

- Make sure **No** is selected under Restore Factory Defaults.

Change Username

Change Username

Enter Current Username

Enter Current Password

Enter New Username

Re-Enter New Username

Apply

Reboot

Yes No

Apply

Restore Factory Defaults

Yes No

Apply

- Click **Apply** to update your user name.

9. Click the drop-down arrow to select **Change Password**.

Change Password ▾

Change User Password

Enter Username

Enter Current Password

Enter New Password

Re-Enter New Password

Apply

Reboot

Yes No

Apply

Restore Factory Defaults

Yes No

Apply

10. Complete each field entry, but note the following:
- All fields are case-sensitive.
 - The Username is your new user name, if you changed it.
 - Make sure **No** is selected for Restore Factory Defaults.
 - Find a secure place to write down and keep your new user name and password.
11. Click **Apply** to update your password.

Set Up Firewall Protection

You can set up firewall filters and firewall alert notifications on your wireless home network. You can also block Java Applets, Cookies, ActiveX controls, popup windows, Proxies, and website access.

To set the firewall protection level:

1. Click **Firewall** on the SBR-AC3200P Main Menu.

- Click **Protection Level** from the Firewall submenu options.

- Click the Firewall Protection Setting drop-down button to select the firewall protection level.

Possible values:

- Off.
- Low.
- Medium.
- High.



Note: Selecting Off will disable firewall protection on your home network. Your computer(s) and other Ethernet-enabled devices on your network will be at risk for possible attacks from viruses and hackers.

- Use the IPv6 Firewall Protection drop-down button to turn firewall protection on or off for IPv6 connections.
- Select each Web filter that you want to set for the firewall and then click **Apply**.

Set Up Firewall Event Log Notifications

When a firewall attack is detected on your home network, a separate email alert notification is generated and a local log or report of the event is created. You can set up automatic email alert notifications for whenever a firewall attack is detected on the SBR-AC3200P.

To set up Firewall Event Log notifications:

1. Click **Firewall** on the SBR-AC3200P Main Menu.
2. Click **Local Log** from the Firewall submenu options.

Alert System				
Contact Email Address	<input type="text"/> ▶ Help			
SMTP Server Name	<input type="text"/> ▶ Help			
SMTP Username	<input type="text"/> ▶ Help			
SMTP Password	<input type="text"/> ▶ Help			
Email Alerts	<input type="checkbox"/> Enable ▶ Help			
<input type="button" value="Apply"/>				
Description	Count	Last Occurrence	Target	Source
<input type="button" value="E-mail Log"/> <input type="button" value="Clear Log"/>				

3. Enter your email address in the Contact Email Address field.
4. Enter the name of the email server in the SMTP Server Name field. Check with your service or email provider.
5. Enter the user name for your email account in the SMTP Username field.
6. Enter the password for your email account in the SMTP Password field.
7. Select **Enable** in the E-mail Alerts field to allow for automatic Email alerts.
8. Click **Apply**.

Set Up Remote Configuration Management

The Advanced Options screen lets you set up Remote Configuration Management so that you can access and configure the SBR-AC3200P from anywhere on the Internet. Once you set up Remote Configuration Management, you can access the SBR-AC3200P by browsing to the WAN IP address at port 80.

To set up remote configuration management:

1. Click **Advanced** on the SBR-AC3200P Main Menu.
2. Click **Options** from the Advanced submenu options.

WAN Blocking of ICMP(Ping)	<input type="checkbox"/> Enabled
IPsec Pass-through	<input checked="" type="checkbox"/> Enabled
PPTP Pass-through	<input checked="" type="checkbox"/> Enabled
Remote Config Management	<input type="checkbox"/> Enabled
Multicast Enable	<input checked="" type="checkbox"/> Enabled
UPnP Enable	<input checked="" type="checkbox"/> Enabled

3. Click the check box to enable Remote Config Management, and click **Apply**.



Note: Most users will not need to set up a pass-through MAC address. However, if you need to do so, type the address in the Pass-through MAC Addresses field, and click **Add MAC Address**.

Filter Devices Based on IP Address

You can set up your Wi-Fi Router to prevent certain devices from accessing the Internet, based on IP address.

To block certain devices from reaching the Internet:

1. Click **Advanced** on the SBR-AC3200P Main Menu.
2. Click **IP Filtering** from the Advanced submenu options.

IP Filtering		
Start Address	End Address	Enabled
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
192.168.0. <input type="text" value="0"/>	192.168.0. <input type="text" value="0"/>	<input type="checkbox"/>
<input type="button" value="Apply"/>		

3. Use the Start Address and End Address fields to identify ranges of IP addresses that you want to prevent from reaching the Internet.
4. Click **Enabled** to block each range of IP addresses.
5. Click **Apply**.

Filter Devices Based on MAC Address

You can set up your Wi-Fi Router to prevent certain devices from accessing the Internet, based on MAC address.

To block certain devices from reaching the Internet:

1. Click **Advanced** on the SBR-AC3200P Main Menu.

2. Click **MAC Filtering** from the Advanced submenu options.

3. In the MAC Filters section, type the MAC address of the device that you want to block from reaching the Internet, and click **Add Mac Address**. The address is added to the white box in the middle of the screen.

Choose a Method for Configuring Wireless Extenders

You can set up your Wi-Fi Router to configure wireless extenders automatically, or you can choose to configure any wireless extenders manually. Your Wi-Fi Router is set up to configure wireless extenders automatically by default.

To choose a method for configuring wireless extenders:

1. Click **Advanced** on the SBR-AC3200P Main Menu.
2. Click **Wireless Extender** from the Advanced submenu options.

3. In the Configure Mode field, select one of the following:
 - Choose **Auto** if you want your Wi-Fi Router to automatically push the settings from your Wi-Fi Router to the wireless extenders.
 - Choose **Semi-Auto** if you want to choose which wireless extender should receive settings from the Wi-Fi Router.
 - Choose **Disable** if you do not want to be able to configure wireless extenders from the Wi-Fi Router. If you choose Disable, you will need to access each wireless extender individually in order to change its configuration settings.
4. Click **Apply**.

Restrict Wireless Access

You can restrict access to your wireless network based on MAC address.

Configure Wireless Media Settings

1. Click **Wireless** on the SBR-AC3200P Main Menu.
2. Click **Media** from the Wireless submenu options.



3. Select the tab for the band whose settings you want to configure.
4. Choose your configuration settings, and click **Apply**.

Set Up Parental Controls

You can set up the following Parental Controls on your home network:

- Block access to specific Internet sites.
- Block access to specific MAC addresses.
- Set time limitations for computer usage or Internet access.

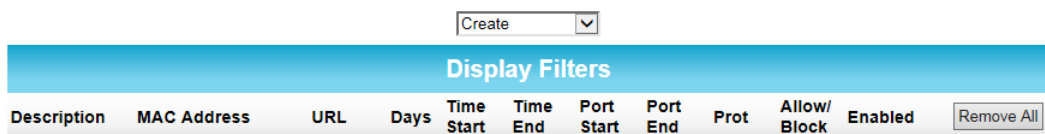


Note: Any Parental Control filters that do not include assigned ports will apply to all ports. This also applies to MAC addresses as well.

You can also link each user on your network to specified rules for login, time-access, and content filtering.

To set Parental Controls:

1. Click **Firewall** on the SBR-AC3200P Main Menu.
2. Click **Parental Control** from the Firewall submenu options.



3. Follow the directions in the following sections to set up different kinds of filters.



Note: You can set up multiple filters, if necessary. For example, suppose you want to block certain websites at all times, but you also want to block all web browsing on weekdays between 2:00 and 5:00 p.m. You would follow the steps in [To Block Certain URL Addresses](#) (page 62) to set up a filter to block that website at all times. Then you would use [To Block All Web Browsing](#) (page 63) to set up a different filter to block all web browsing during the times you specify.

To Block Certain URL Addresses

1. At the top of the screen, click the drop-down box and select **Block URL**.

Add/Edit Filter			
Description	<input type="text"/>		
MAC Address	<input type="text"/>		
URL	<input type="text"/>		
Days			
<input type="checkbox"/> EveryDay	<input type="checkbox"/> Sunday	<input type="checkbox"/> Monday	<input type="checkbox"/> Tuesday
<input type="checkbox"/> Wednesday	<input type="checkbox"/> Thursday	<input type="checkbox"/> Friday	<input type="checkbox"/> Saturday
Time			
<input type="checkbox"/> All day			
Start:	<input type="text"/> (hour)	<input type="text"/> (min)	AM <input type="button" value="v"/>
End:	<input type="text"/> (hour)	<input type="text"/> (min)	AM <input type="button" value="v"/>
Enabled	Off <input type="button" value="v"/>		
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>			

Display Filters											
Description	MAC Address	URL	Days	Time Start	Time End	Port Start	Port End	Prot	Allow/Block	Enabled	<input type="button" value="Remove All"/>

2. Enter a name to identify this user profile in the Description field.
3. Enter the 12-digit (hexadecimal) MAC address of the device for which you are creating Parental Controls in the MAC Address field.
4. Enter the web address of the Internet site that you want to block in the URL field.
5. Select the days of the week that you want to block access.
6. Select the time range that you want to block access.
7. In the Enabled field, select **On** or **Off** to enable or disable this Parental Control restriction.
8. Click **Apply**.

To Block All Web Browsing

1. At the top of the screen, click the drop-down box and select **Block Web Browsing**.

Add/Edit Filter			
Description	<input type="text"/>		
MAC Address	<input type="text"/>		
Days			
<input type="checkbox"/> EveryDay	<input type="checkbox"/> Sunday	<input type="checkbox"/> Monday	<input type="checkbox"/> Tuesday
<input type="checkbox"/> Wednesday	<input type="checkbox"/> Thursday	<input type="checkbox"/> Friday	<input type="checkbox"/> Saturday
Time			
<input type="checkbox"/> All day			
Start:	<input type="text"/> (hour)	<input type="text"/> (min)	AM <input type="button" value="v"/>
End:	<input type="text"/> (hour)	<input type="text"/> (min)	AM <input type="button" value="v"/>
Enabled	Off <input type="button" value="v"/>		
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>			

Display Filters											
Description	MAC Address	URL	Days	Time Start	Time End	Port Start	Port End	Prot	Allow/Block	Enabled	Remove All

2. Enter a name to identify this user profile in the Description field.
3. Enter the 12-digit (hexadecimal) MAC address of the device for which you are creating Parental Controls in the MAC Address field.
4. Select the days of the week that you want to block access.
5. Select the time range that you want to block access.
6. In the Enabled field, select **On** or **Off** to enable or disable this Parental Control restriction.
7. Click **Apply**.

To Block All Internet Use

1. At the top of the screen, click the drop-down box and select **Block All Internet**.

Add/Edit Filter

Description

MAC Address

Days

EveryDay Sunday Monday Tuesday

Wednesday Thursday Friday Saturday

Time

All day

Start: (hour) (min) AM v

End: (hour) (min) AM v

Enabled Off v

Cancel Apply

Display Filters

Description	MAC Address	URL	Days	Time Start	Time End	Port Start	Port End	Prot	Allow/Block	Enabled	Remove All

2. Enter a name to identify this user profile in the Description field.
3. Enter the 12-digit (hexadecimal) MAC address of the device for which you are creating Parental Controls in the MAC Address field.
4. Select the days of the week that you want to block access.
5. Select the time range that you want to block access.
6. In the Enabled field, select **On** or **Off** to enable or disable this Parental Control restriction.
7. Click **Apply**.

To Set Up a Custom Filter

1. At the top of the screen, click the drop-down box and select **Block Custom**.

Add/Edit Filter											
Description	<input type="text"/>										
MAC Address	<input type="text"/>										
URL	<input type="text"/>										
Start Port	<input type="text"/>										
End Port	<input type="text"/>										
Protocol	TCP ▾										
Days											
<input type="checkbox"/> EveryDay	<input type="checkbox"/> Sunday	<input type="checkbox"/> Monday	<input type="checkbox"/> Tuesday								
<input type="checkbox"/> Wednesday	<input type="checkbox"/> Thursday	<input type="checkbox"/> Friday	<input type="checkbox"/> Saturday								
Time											
<input type="checkbox"/> All day											
Start:	<input type="text"/> (hour)	<input type="text"/> (min)	AM ▾								
End:	<input type="text"/> (hour)	<input type="text"/> (min)	AM ▾								
Allow/Block	Block ▾										
Enabled	Off ▾										
										Cancel	Apply
Display Filters											
Description	MAC Address	URL	Days	Time Start	Time End	Port Start	Port End	Prot	Allow/Block	Enabled	Remove All

2. Enter a name to identify this user profile in the Description field.
3. Enter the 12-digit (hexadecimal) MAC address of the device for which you are creating Parental Controls in the MAC Address field.
4. Enter the web address of the Internet site that you want to block in the URL field.
5. Enter the Start Port number and the End Port number, and select the Protocol that you want to use.
6. Select the days of the week that you want to block access.
7. Select the time range that you want to block access.
8. In the Enabled field, select **On** or **Off** to enable or disable this Parental Control restriction.
9. Click **Apply**.

Set Up Port Triggers

You can use Port Triggers to configure dynamic triggers to specific devices on the LAN. This allows special applications that require specific port numbers with bi-directional traffic to

function properly. Applications such as video conferencing, voice, gaming, and some messaging program features may require these special settings.



Note: If you enable the firewall and set up custom port triggers, then you must configure the firewall to allow traffic through those custom ports. See [Set Up Firewall Protection](#) (page 55) for more information.

To configure Port Triggers:

1. Click **Advanced** on the SBR-AC3200P Main Menu bar.
2. Click **Port Triggers** from the Advanced submenu options.

Port Triggering						
Trigger Range	Target Range	Protocol	Description	Enable	Remove All	
Start Port	End Port	Start Port	End Port			

3. Click **Create Port Triggers** to open the Add Port Triggering Entry window.

Add Port Triggering Entry						
Trigger Start Port	Trigger End Port	Target Start Port	Target End Port	Protocol	Description	Enabled
0	0	0	0	BOTH		Off

Port Triggering						
Trigger Range	Target Range	Protocol	Description	Enable	Remove All	
Start Port	End Port	Start Port	End Port			

4. Enter the starting and ending port numbers for the port to be triggered in the Trigger Start Port and Trigger End Port fields.
5. Enter the starting and ending port numbers of the Port Trigger range in the Target Start Port and Target End Port fields.
6. Select TCP, UDP, or BOTH from the Internet Protocol field.
7. Select **On** to enable IP port triggers or **Off** to disable them.
8. Click **Apply** to create your port triggers.
9. Repeat steps 3 through 8 for each additional port trigger that you want to create.

Set Up Port Forwarding

You can use Port Forwarding to set up a computer or other network device on your home network (LAN) to be accessible to computers or other remote network devices on the Internet. This allows you to open specific ports behind the firewall on your LAN to set up dedicated connections between your computer and other remote computers for online gaming or other online services. Some allowable services are predefined under the Commonly Forwarded Ports.



Note: It is recommended that you manually configure the TCP/IP settings listed below on the computer you are setting up for remote access. Otherwise, remote access to your computer will not be available on the Internet.

- IP address
- Subnet mask
- Default gateway
- DNS address (at least one)

To set up Port Forwarding:

1. Click **Advanced** on the SBR-AC3200P Main Menu bar.
2. Click **Port Forwarding** from the Advanced submenu options.

Forwarded Ports					
External IP Address & Start/End Port	Local IP Address & Start/End Port	Description	Protocol	Forwarding	Remove All

To Set Up Port Forwarding for IPv4 Addresses



Note: To map a port for IPv4, you would enter the range of port numbers that you want forwarded locally and the IP address for sending traffic to those ports. If you only want a single port specification, enter the same port number in the start and end locations for that IP address.

1. Click **Create IPv4** to view the IPv4 Entry screen.

IPv4 Entry				
External IP Address & Start/End Port	Local IP Address & Start/End Port	Description	Protocol	Enabled
<input type="text"/>	<input type="text"/>	<input type="text"/>	TCP	On
<small>0.0.0.0 is the default value (IP Address) that allows packets from any device on the internet to be forwarded to the configured ports</small>				
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>				

Forwarded Ports					
External IP Address & Start/End Port	Local IP Address & Start/End Port	Description	Protocol	Forwarding	Remove All

2. Do either of the following to set up the External IP Address:
 - Keep the IP Address set at 0.0.0.0 in the External IP Address field and then enter the port number in the Start Port field. Repeat the same port number in the End Port field. This allows incoming data traffic on the specified ports from any remote IP address.
 - Enter a specific remote IP address of your choice in the External IP Address field and then enter the specific port numbers in the Start Port and End Port fields. This allows incoming data traffic on the specified ports from only one remote IP address.



Note: To forward a range of ports, enter the first number of the port range in the Start Port field and the last number of the port range in the End Port field.

3. Do the following to set up your Local IP Address:
 - a. Enter the IP address of your local computer that you are setting up for port forwarding.
 - b. Enter the port number of your choice in the Start Port field. Repeat the same port number in the End Port field.



Note: To forward a range of ports, enter the first number of the port range in the Local Start Port field and the last number of the port range in the Local End Port field.

- c. Enter a description to name the forwarded port you are creating.
 - d. Select **TCP**, **UDP**, or **BOTH** from the Internet Protocol drop-down list.
 - e. Select **On** to enable port forwarding or **Off** to disable it.
4. Click **Apply**.

To Set Up Port Forwarding for IPv6 Addresses

1. Click **Create IPv6** to view the IPv6 Entry screen.

IPv6 Entry				
External IP Address	Local IP Address & Start/End Port	Description	Protocol	Enabled
<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>	TCP	On
<input type="text"/> Commonly Forwarded Ports				
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>				
Forwarded Ports				
External IP Address & Start/End Port	Local IP Address & Start/End Port	Description	Protocol	Forwarding
				<input type="button" value="Remove All"/>

2. Enter the remote IP address of your choice in the External IP Address field. This allows incoming data traffic from only one remote IP address.
3. Do the following to set up your Local IP Address:
 - a. Enter the IP address of your local computer that you are setting up for port forwarding.
 - b. Enter the port number of your choice in the Start Port field. Repeat the same port number in the End Port field.



Note: To forward a range of ports, enter the first number of the port range in the Local Start Port field and the last number of the port range in the Local End Port field.

- c. Enter a description to name the forwarded port you are creating.
 - d. Select **TCP**, **UDP**, or **BOTH** from the Internet Protocol drop-down list.
 - e. Select **On** to enable port forwarding or **Off** to disable it.
4. Click **Apply**.

Set Up the DMZ Host



Caution: The gaming DMZ host is not protected by the SBR-AC3200P Wi-Fi Router firewall. It is exposed to the Internet and thus vulnerable to attacks or hacking from any computer on the Internet. Consider carefully before configuring a device to be in the DMZ.

You can configure one computer on your home network to be the DMZ Host. That computer will operate outside of the SBR-AC3200P firewall and allow remote access from the Internet to your computer, gaming device, or other IP-enabled device. The DMZ Host feature will only allow outside users to have direct access to the designated DMZ Host device and not your home network.

To create the DMZ Host:

1. Click **Advanced** on the SBR-AC3200P Main Menu bar.
2. Click **DMZ Host** from the Advanced submenu options.

DMZ Host	
DMZ Host	192.168.0. 0 Help
<input type="button" value="Apply"/>	

3. Enter the last one to three digits (from 2 to 254) of the IP address of the computer or gaming device that you are setting up as the DMZ host.
4. Click **Apply**.



Note: Remember to reset the IP address back to 0 (zero) to close all the ports when you are finished with the needed application. If you do not reset the IP address, that computer will be exposed to the public Internet.

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