

Package Contents

After unpacking the SMC7904WBRA, check the contents of the box to be sure you have received the following components:

- One Barricade™ g Wireless Broadband Router
- One Power Adaptor
- One cable (RJ-11) for connection to the phone line
- One cable (RJ-45) for optional connection to a LAN device
- One CD-ROM containing full version of User Manual
- One Warranty Card
- One ADSL splitter *

* The ADSL splitter (also called microfilter) is only contained in packages related to specific countries (US, UK, France, The Netherlands). If your package does not contain a splitter, you may be required to purchase this item separately. Please contact your ISP for further details.

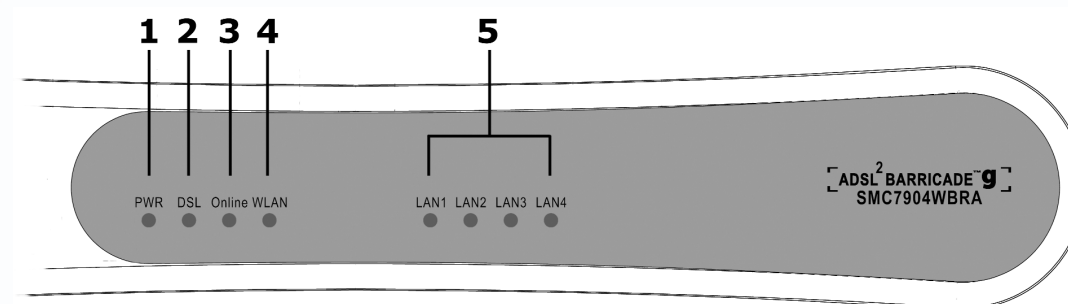
Please inform your dealer in the event of any incorrect, missing or damaged parts. If possible, retain the carton and original packing materials in case there is a need to return the product.

System Requirements

- An ADSL line installed by your ISP
- An ADSL splitter (at least one)
- A Computer with a CD-ROM drive and working Ethernet port
- Windows (98 or later), MacOS (9.x or later) or Linux
- An up to date web browser:
 - Internet Explorer 5.5 or later
 - Mozilla 1.7/Firefox 1.0 or later

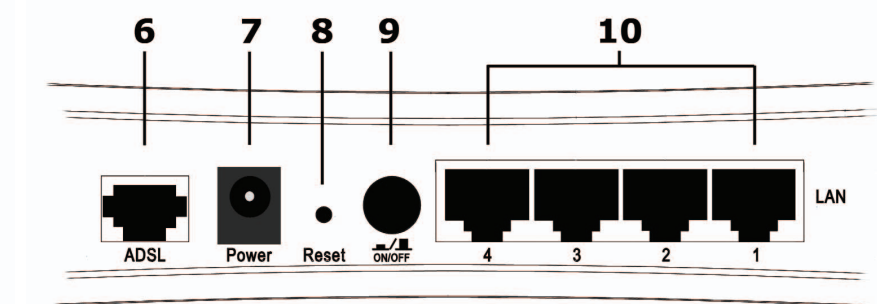
Hardware Description

Front



1. Power (PWR) LED
When this green LED is on, the router is powered up.
2. DSL LED
This green LED flashes while a link is being set up on the ADSL port. The LED stays on when the link has been set up and is functioning correctly.
3. Online LED
This green LED will normally be off but flashes when data is sent or received on the ADSL port.
4. WLAN LED
When this green LED is on, wireless networking is enabled. The LED will flash when data is sent or received over a wireless connection.
5. LAN LEDs (LAN1, LAN2, LAN3 and LAN4)
These green LEDs turn on when there is an Ethernet connection to the corresponding LAN port on the back panel (see 10 below) and will flash to indicate that data is being sent or received over the connection.

Back



6. ADSL Port
Use the supplied cable to connect the ADSL port to your phone socket. The DSL LED on the front panel will light up when the connection is made (see 2 above) and the Online LED (see 3) will turn when you are able to send and receive data.
7. Power
Connect the supplied, 12V power adapter to this socket.
8. Reset
You can restart the unit by pressing the reset button and releasing it immediately. If, for any reason, you need to reset the unit to factory defaults and cannot access the user interface (e.g. if you have changed and forgotten the password), press the reset button for 10 seconds. Note that you will lose all your configuration changes when you reset the router to factory defaults. You may have to use a thin implement, like a straightened paper-clip, to reach the switch.
9. On/Off Switch
When the power adapter is connected (see 7 above) and this switch is pressed in, your router will power up.
10. LAN Ports (1, 2, 3 and 4)
There are four Ethernet LAN ports for connection to PCs, network printers or similar devices. Note the labelling; one LAN LED on the front panel is associated with one port on the rear panel. Port 1 is associated with the LAN1 LED, port 2 with LAN2 and so on. If a device is not correctly connected, using a suitable Ethernet cable, the associated LED will not turn on.

Ethernet cables

Ethernet cables are usually constructed from unscreened, "Cat 5" cable with RJ45 connectors at both ends. Cables of this type can be purchased at most computer retailers.

Troubleshooting

Installation Troubleshooting

- Check that the Power Adapter is both plugged into a working power socket and connected to the Router. Check that the On/Off switch on the back of the Router is pressed in and that the green PWR LED on the Router is turned on. Only use the power adapter that was supplied with your Router.
- The wired PC should connect to a LAN port of the Router using an Ethernet cable. The corresponding LAN LED of the Router should be on.
- The Router ADSL port should be connected to your phone socket on the wall. The DSL LED should be on when there is a valid connection to your ISP. The Online LED will flash when data is transferred to and from the ADSL port.
- Power up your equipment in the following order: First the ADSL Router and then your PC. Leave at least 30 seconds between turning on each device.
- The PC should be setup to obtain an IP address automatically from the Router's DHCP server. See the user manual on the CD for details of how to setup your PC to obtain an IP address.
- Check that web proxy is disabled on your PC. Go to the *Control Panel* and select *Internet Options*. Select the Connections tab and click the *LAN Settings* button. Check that the Use *Proxy Server* option is not ticked.
- Check you can access the Router's web interface. Open a browser and enter <http://192.168.2.1> to access the default IP address of the Router.

WAN Connection Troubleshooting

- Check that you have selected the correct WAN connection option and the ISP details are correct. If you do not have these details, they can be obtained from your ISP.
- If you have any PPPoE client applications already installed on your PC which were required when your PC was directly connected to the DSL modem, they must be disabled.

Wireless Troubleshooting

- Check that the SSID is the same on the Router and the wireless PC.
- Check that the wireless encryption is the same on the Router and the wireless PC. To help debug a problem, turn off encryption in both the Router and wireless PC until you can establish a connection. After a change in encryption, some PCs may have to be restarted.
- The wireless PCs must be set to Infrastructure mode to work with a Router.
- If your computer has both a wired and wireless connection installed, ensure that the wired Ethernet cable is unplugged.
- Check that the Router WLAN LED is on, to indicate that Wireless networking is enabled. To enable wireless networking, go to the Router Wireless page and enable Wireless Networking.
- If there are a number of wireless networks within range, then you may experience poor wireless performance if the wireless channels are too close together. Ideally, neighbouring wireless networks should be at least 5 channels apart. The wireless channel is controlled by and set in the Router.
- The Router has a feature called *MAC Filter* which controls which wireless PCs have access to the wireless LAN. If this feature is enabled, then ensure that the MAC address of your wireless PC card is listed in the *MAC Filter* page.

Compliance and Warranty

- Details regarding compliance and warranty can be found on the user manual located on the CD-ROM

FOR TECHNICAL SUPPORT, CALL:

From U.S.A. and Canada:
(24 hours a day, 7 days a week)
(800) SMC-4-YOU - Phn: (949) 679-8000 -
Fax: (949) 679-1481

From Europe:
Contact details can be found on www.smc.com.

INTERNET

E-mail addresses:
techsupport@smc.com
european.techsupport@smc.com

Driver updates:
Please go to the SUPPORT section on
www.smc.com and enter the DOWNLOADS pages.

World Wide Web:
<http://www.smc.com>

If you are looking for further contact
information, please visit www.smc.com.

38 Tesla
Irvine, CA 92618
Phone: (949) 679-8000

Model Number: SMC7904WBRA

ADSL2 Barricade™ g Wireless Broadband Router with Built-in Annex A ADSL Modem

Quick Installation Guide



SMC7904WBRA

SMC
Networks

Thank you for choosing the SMC Barricade™ g Wireless Broadband Router. This Quick Installation Guide will enable you to have your new router up and running in a few minutes. Please complete each stage of these easy to follow instructions.

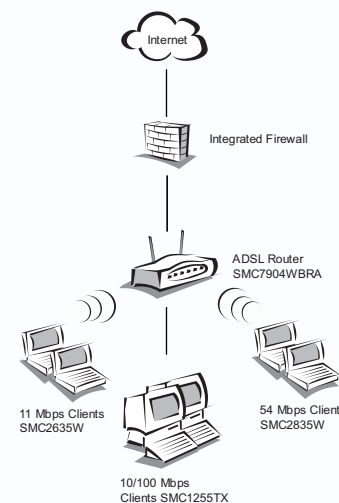
Hardware Installation

The position of your Router is important to its wireless performance. The Router should be located in a central position relative to the wireless PCs that will connect to it. A suitable location might be on a high shelf or a similar position that allows good wireless coverage from the Router to the wireless PCs.

To meet the FCC wireless radiation exposure regulations, the Router should be located in a position to maintain a minimum distance of 20cm (8 inches) from any personnel.

Connect all of the computers that you want to share on your internet connection to your router. During the initial setup, SMC recommend that the Router is configured from a wired Ethernet PC as shown in the diagram.

To keep the high-frequency ADSL signals from interfering with telephone calls, each phone must be connected to the phone-line through a splitter (also known as and ADSL microfilter). The ADSL connection of the router does not require to be filtered as the frequencies produced by telephones do not interfere with the ADSL connection.



Initial Configuration

Follow the steps in this section after you have connected your hardware as described in the Hardware Installation section. Before beginning, make sure you have all the details about your internet connection from your ISP.

Note: On first power-up or immediately following a *Restore to Factory Defaults*, the wireless is turned off. Initial configuration must be performed using a wired connection.

1. First, power-up your router then power-up the PC that you will use to configure the router.
2. Start your web browser and enter the address <http://192.168.2.1>. If your PC is properly configured you will see the login page of the router. If you cannot access the login page then you must first reconfigure your PC to obtain an IP address automatically; see the manual on the CD-ROM for more information.
3. Type in the password (the default is **smcadmin**) and click on *Login*. When you have successfully logged in, you will see the *Country Selection* page. Your choice of country will be used to configure the wireless so it is important that you make the correct selection from the drop down list. Once you have made your selection click on the Apply button to go to the Home page.

Note: The *Country Selection* page only appears on first power-up or immediately following a *Restore to Factory Defaults*.

4. The Home page allows you to choose between the *Setup Wizard* and *Advanced Setup*. Select *Setup Wizard*.

5. The first page of the Setup Wizard (*Getting Started*) provides background information. Click on the *NEXT* button after you have read the page and taken any action required.
6. The *Wireless Settings* page allows you to change the behaviour of the wireless. If you are unfamiliar with the terminology, do not change the values; they can always be changed later if required. See the Wireless Networking Section for more information.
7. The next page allows you to configure your time-zone. Select the appropriate time-zone from the drop-down list then select the *Primary Server* and *Secondary Server* that are closest to your location. Click on the *NEXT* button when you are happy with your choices.
8. The next page of the wizard configures your ADSL connection.

- a. First select your country from the drop-down list. If your country does not appear on the list then select *Other*.
- b. If your country was on the list you will now be able to select an Internet/Network Provider from the drop-down list. If your provider does not appear on the list, select *Other*. Note that your service provider *may* have changed their connection parameters from those used by the router. If you are in any doubt, please check with your ISP and select *Other* to enter the parameters manually.
- c. If you selected *Other* for your country or Service/Network Provider, you will now have to manually select the protocol your provider uses.

Fill in the blank fields with the information provided by your Internet/Network Provider. Click on *NEXT* when you have entered the information.

9. The final page of the wizard shows a summary of all the information that you have entered. Click on *FINISH* to confirm your choices and connect to the Internet or click on *BACK* to return to a page to make further changes.

That's it! When you click on *FINISH*, you should be connected to the Internet. Please register your product by pointing your Web browser to www.smc.com and clicking through to the support pages. If you are not connected to the Internet, please contact your ISP to clarify your connection details.

Wireless Networking

To setup Wireless networking you must select the Wireless option in the Advanced Setup section.

1. To create a wireless network, the Router and wireless PCs must have the same SSID and encryption settings. The default wireless settings for the Router are shown below:

- **SSID - Router default is SMC**
The SSID is the name given to your wireless LAN. Only PCs with the same SSID as the Router can connect to the wireless LAN.
- **Wireless Encryption - Router default is off**
To set up your wireless network, set the encryption to off in both the Router and the wireless PC. Wireless encryption can be set up later, after you have established a wireless network.
- **Wireless Channel - Router default is Auto**
The Router will automatically select a clear wireless channel. If there are no other wireless networks in the area, the Router will default to channel 6. The wireless PCs will automatically scan the channels to detect which channel the Router is using.

If this is your only wireless network, then you can use the Router's default settings. Now set your wireless PC to have the same SSID and encryption settings as the Router. The wireless PCs must also be set to use infrastructure mode.

2. If your computer has both a wired and wireless connection installed, then you must ensure that only one type is used at a time, to connect to the LAN. To use the wireless connection, unplug the wired Ethernet cable and reboot the PC.
3. Once you have setup the same SSID and Encryption in the Router and wireless PC, open a browser and try to connect to www.smc.com. If you can access the internet, then you have successfully set up your wireless LAN.
4. SMC recommends that you enable wireless encryption to improve the security of your wireless network. Note that if you change the wireless settings (e.g. SSID or WEP) of your Router from a wireless PC, then you may lose contact with your Router. To re-establish the wireless connection, change the wireless settings of your PC to be the same as the Router.

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