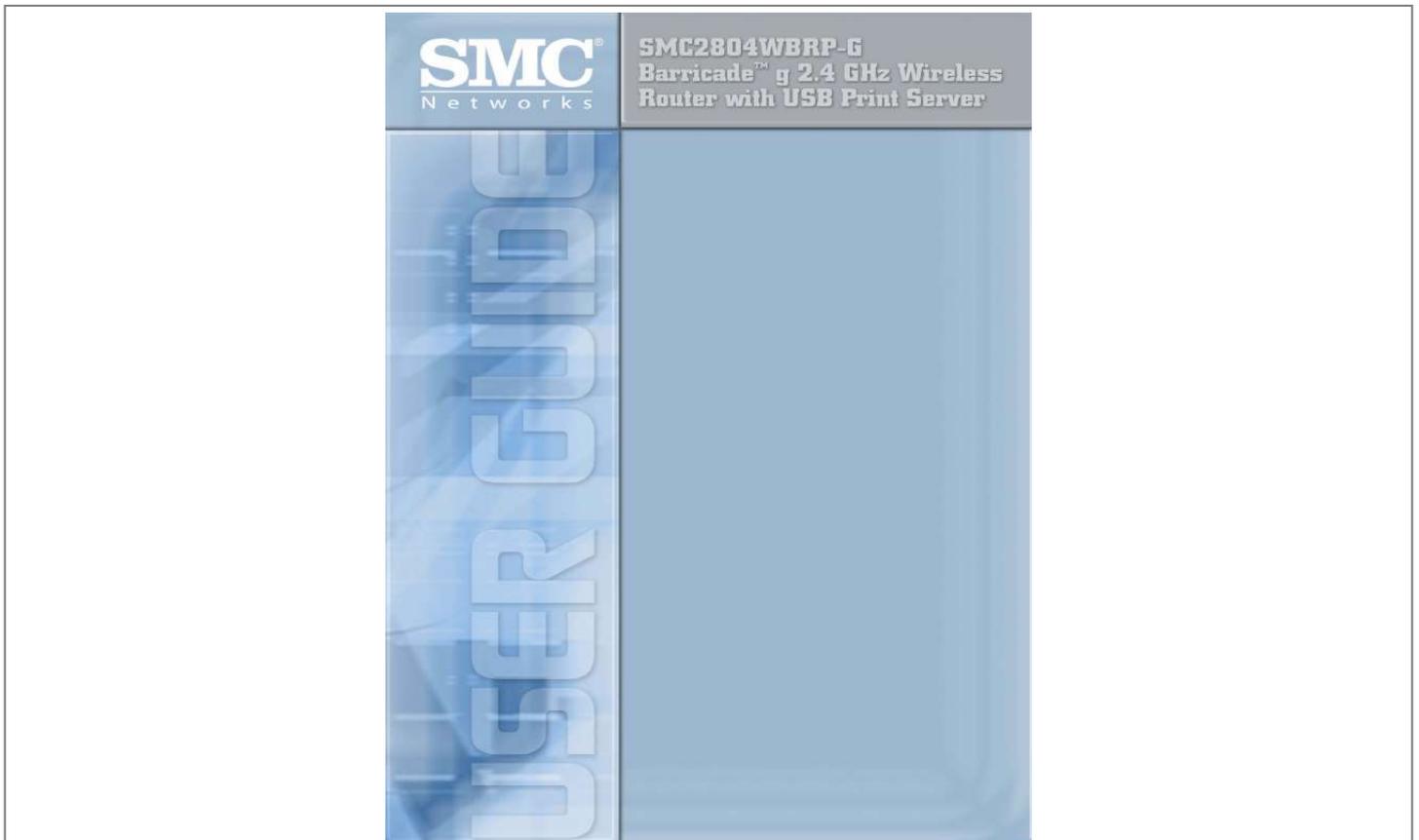




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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC 2804WBRP-G. You'll find the answers to all your questions on the SMC 2804WBRP-G in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SMC 2804WBRP-G
User guide SMC 2804WBRP-G
Operating instructions SMC 2804WBRP-G
Instructions for use SMC 2804WBRP-G
Instruction manual SMC 2804WBRP-G



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Manual abstract:

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Barricade g Wireless Router with USB Print Server Manual TABLE OF CONTENTS CHAPTER 1 | Introduction Features and Benefits Package Contents Minimum Requirements CHAPTER 2 | Getting to know the Barricade g LED Indicators Resetting the Barricade g CHAPTER 3 | Getting Connected Basic Installation Procedure 3-click Installation Wizard CHAPTER 4 | Configuring your Computer Configuring Windows 95/98/Me Configuring Windows 2000 Configuring Windows XP Configuring a Macintosh Computer CHAPTER 5 | Configuring the Barricade g Browser Configuration Disable Proxy Connection Accessing the Barricade Management CHAPTER 6 | Navigating the Web-based Administration Making Configuration Changes CHAPTER 7 | Setup Wizard CHAPTER 8 | Advanced Setup CHAPTER 9 | Setting up the Print Server Install the SMC Printer Port Monitor Configure the Print Server using the SMC Printer Port Monitor Configure LPR port on Windows 2000/XP APPENDIX A | PC Troubleshooting APPENDIX B | Internet Connection Troubleshooting APPENDIX C | Frequently Asked Questions APPENDIX D | Port List Application / Games APPENDIX E | Technical Specifications APPENDIX F | Compliances APPENDIX G | Technical Support 3 Barricade g Wireless Router with USB Print Server Manual CHAPTER 1 | Introduction Congratulations on your purchase of a Barricade™ g Broadband Router with USB Print Server (SMC2804WBRP-G). SMC is proud to provide you with a powerful yet simple communication device for connecting your local area network (LAN) to the Internet and sharing a USB printer on your network. 1.0 | Features and Benefits EZ 3-Click Installation Wizard - A new and improved way to install your Barricade in seconds Built-in USB print Server to share your USB-enabled printer Internet connection to ethernet broadband modem via a 10/100 Mbps WAN port Local network connection via a 4-port auto-sensing 10/100 Mbps Ethernet switch DHCP for dynamic IP configuration, and DNS for domain name mapping Firewall with Stateful Packet Inspection, client privileges, hacker prevention, DoS, and NAT NAT also enables multi-user access with a single-user account, and virtual server functionality (providing protected access to Internet services such as web, mail, FTP, and Telnet) Virtual Private Network support using PPTP, L2TP, or IPsec pass-through User-definable application sensing tunnel supports applications requiring multiple connections Parental controls allows the user to block access to certain web sites Email alerts when the users network is being compromised Easy setup through a web browser on any operating system that supports TCP/IP Compatible with various internet applications, including Peer-to-Peer file sharing, Online Games, and Instant Message utilities. 1.1 | Package Contents Before installing the Barricade™ g Broadband Router with USB Print Server, verify that you have the items listed under "Package Contents.

" Also be sure that you have the necessary cabling. If any of the items are missing or damaged, contact your local SMC distributor. Barricade g Broadband Router with USB Print Server Power adapter (9v/1a) One CAT-5 Ethernet cable CD with User Guide and EZ 3-Click Installation Wizard Quick Installation Guide If possible, retain the carton and original packing materials in case there is a need to return the product. 1.2 | Minimum Requirements Cable or DSL Modem with Ethernet connection and Internet access from your local telephone company or Internet Service Provider (ISP) using a DSL modem or cable modem.

A computer equipped with a 10 Mbps, 100 Mbps, or 10/100 Mbps Fast Ethernet card, or USB-to-Ethernet converter. Network adapter with Ethernet (UTP CAT 5) cabling and TCP/IP protocol installed per PC Internet Explorer 4.0 (or Higher) or Netscape Navigator 4.7 (or Higher) for Web-based configuration of the Barricade 4 Barricade g Wireless Router with USB Print Server Manual CHAPTER 2 | Getting to Know the Barricade The SMC2804WBRP-G Barricade Cable/DSL Broadband Router is the perfect solution for the home/office environment. This full-featured router offers: 1 - USB 1.1 Print Server port 802.11g Wireless with Performance Enhancing Nitro™ Technology 4 - 10/100 Mbps Auto-Sensing LAN ports with Auto-MDI MDIX feature 1 - 10/100 Mbps WAN port with Auto-MDI MDIX feature Comprehensive LEDs for network status and troubleshooting Reset Button 2.1 | LED Indicators The Barricade includes LED indicators on the front panel that simplify installation and network troubleshooting. LED PWR (POWER) SPD (WAN) Link/ACT (WAN) WLAN Link/ACT (LAN) ON Receiving power 100Mbps WAN connection detected Good WAN connection detected Wireless function is enabled Good LAN connection detected OFF Not receiving power 10Mbps WAN connection detected No WAN connection detected Wireless function is disabled No LAN connection detected FLASHING N/A N/A Data transmitting through the WAN Data transmitting through wireless Data transmitting through the LAN Resetting the Barricade The Reset button is located on the rear panel of the Barricade Broadband Router. Use a paper clip or a pencil tip to push the Reset button. Reset If the Router is having problems connecting to the Internet, simply unplug the router for 3 seconds then plug back in. Restore Factory Defaults If resetting the router does not resolve your issue, then you can follow these steps: 1. Leave power plugged into the router 2. Locate the reset button on the back panel, press and hold until WAN LED flashes off. 3.

Release reset button. 5 Barricade g Wireless Router with USB Print Server Manual CHAPTER 3 | Getting Connected The SMC2804WBRP-G Barricade g Router with USB Print Server is connected between the Ethernet Broadband Modem and your computers, either wired or wireless. If you have more than one computer to connect, simply plug the other computers into the LAN ports on the back of the router or connect via a wireless signal. MODEM connected to WAN Port 3.1 | Basic Installation Procedure 1. CONNECT the WAN Connect an Ethernet cable from your cable or DSL modem to the Barricade g WAN port on the back on the router. 2. CONNECT the LAN Run an Ethernet cable from one of the LAN ports on the back of the Barricade g to your computer's wired network adapter. 3. POWER on Connect the power cable to the Barricade.

NOTE: It is highly recommended that you do you initial configuration from a wired connection. Once you have completed connecting all of the hardware, simply insert the Barricade g CD-ROM and the EZ 3-Click Installation Wizard will automatically get you connected you to the Internet.



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For manual configuration of the PCs, see Chapter 4. For advanced configuration of the Barricade Broadband Router, see Chapter 5. COMPUTER connected to LAN Port 6 Barricade g Wireless Router with USB Print Server Manual CHAPTER 4 \ Configuring your Computer The information outlined in this chapter will guide you through the configuration for the following Operating Systems: Windows 95/98 Windows Me Windows 2000 Windows XP Apple Macintosh 4.

1 \ Configuring Windows 95/98/Me 1. Access your Network settings by clicking [Start], choose [Settings], and then select [Control Panel]. 2. In the Control Panel, locate and double-click the [Network] icon. 3.

Highlight the TCP/IP line that has been assigned to your network card on the [Configuration] tab of the [Network] properties window. 4. Next, click the [Properties] button to view that adapter's TCP/IP settings. 7 Barricade g Wireless Router with USB Print Server Manual 5. From the TCP/IP Properties dialog box, click the [Obtain an IP address automatically] option. 6. Next click on the [Gateway] tab and verify the Gateway field is blank. If there are IP addresses listed in the Gateway section, highlight each one and click [Remove] until the section is empty. 7. Click the [OK] button to close the TCP/IP Properties window.

8. On the Network Properties Window, click the [OK] button to save these new changes. NOTE: Windows may ask you for the original Windows installation disk or additional files. Check for the files at c:\windows\options\cabs, or insert your Windows CD-ROM into your CD-ROM drive and check the correct file location, for example, D:\win98, D:\win9x. (assume "D" is your CD-ROM drive). 9. Windows may prompt you to restart the PC. If so, click the [Yes] button. If Windows does not prompt you to restart your computer, do so anyways to ensure your settings. 4.

2 \ Configuring Windows 2000 1. Access your Network settings by clicking [Start], choose [Settings], and then select [Control Panel] 2. In the Control Panel, locate and double-click the [Network and Dial-up Connections] icon 3. Locate and double-click the [Local Area Connection] icon for the Ethernet adapter that is connected to the Barricade. When the Status dialog box window opens, click the [Properties] button.

4. On the [Local Area Connection] Properties box, verify the box next to Internet Protocol (TCP/IP) is checked. Then highlight the Internet Protocol (TCP/IP), and click the Properties button. 5. Select Obtain an IP address automatically to configure your computer for DHCP. Click the [OK] button to save this change and close the Properties window. 6. Click the [OK] button again to save these new changes. 7. Reboot your PC. 8 Barricade g Wireless Router with USB Print Server Manual 4.3 \ Configuring Windows XP The following instructions assume you are running Windows XP with the default interface. If you are using the Classic interface (where the icons and menus look like previous Windows versions), please follow the instructions for Windows 2000 outlined above. 1. Access your Network settings by clicking [Start], choose [Control Panel], select [Network and Internet Connections] and then click on the [Network Connections] icon.

2. Locate and double-click the Local Area Connection icon for the Ethernet adapter that is connected to the Barricade Router. Next, click the [Properties] button. 3. On the [Local Area Connection] Properties box, verify the box next to Internet Protocol (TCP/IP) is checked. Then highlight the Internet Protocol (TCP/IP), and click the Properties button. 4. Select Obtain an IP address automatically to configure your computer for DHCP. Click the [OK] button to save this change and close the Properties window. 5.

Click the [OK] button again to save these new changes. 6. Reboot your PC. 9 Barricade g Wireless Router with USB Print Server Manual 4.4 \ Configuring a Macintosh Computer You may find that the instructions here do not exactly match your screen.

This is because these steps and screenshots were created using Mac OS 8.5. Mac OS 7.x and above are all very similar, but may not be identical to Mac OS 8.5.

1. Pull down the Apple Menu. Click [Control Panel] and select TCP/IP. 2. In the TCP/IP dialog box, make sure that [Ethernet] is selected in the [Connect Via:] field. If [Using DHCP Server] is already selected in the [Configure] field, your computer is already configured for DHCP. Close the TCP/IP dialog box, and skip to Step 2 Disable HTTP Proxy (bottom of this page). 3. All the information that you need to record is on the [TCP/IP] dialog box. Use the space below to record the information.

4. Select [Using DHCP Server] in the [Configure] field and close the window. 5. Another box will appear asking whether you want to save your TCP/IP settings. Click [Save]. 10 Barricade g Wireless Router with USB Print Server Manual CHAPTER 5 \ Configuring the Barricade After you have configured TCP/IP on a client computer, use a web browser to configure the Barricade™ Broadband Router. The Barricade can be configured by any Java-supported browser including Internet Explorer 4.0 or above, or Netscape Navigator 4.7 or above. Using the web management interface, you may configure by click on the SETUP WIZARD option to start the process.

13 Barricade g Wireless Router with USB Print Server Manual CHAPTER 7 \ Setup Wizard Below is an outline of each option available from the Setup Wizard section. This wizard takes 3 steps to complete an ISP configuration. 7.1 \ Step One: Time Zone The first step is to configure the Time Zone you are located in. This setting is used for accurate timing of client filtering and log events.

7.2 \ Step Two: Broadband Type Select the type of broadband connection you have. Cable Modem: This is a Dynamic or DHCP Internet connection type typically used by Cable Modem Internet connections. Fixed-IP xDSL: This is a Static IP Internet connection type choose this option if you ISP has provided you with all the correct static IP info. 14 Barricade g Wireless Router with USB Print Server Manual PPPoE: This Internet connection method requires a username and password - typically used by xDSL Internet connections.

PPTP: Point-to-Point Tunneling Protocol is a common connection method used for xDSL connections in Europe. BigPond®: The BigPond Internet service is used in Australia and uses a Heartbeat client to stay online. 7.3 \ Step Three: Finish Configuration Once you have configured your type of ISP connection, simply click the [Finish] button and the Barricade g will automatically configure your Internet connection. 15 Barricade g Wireless Router with USB Print Server Manual CHAPTER 8 \ Advanced Setup Below is an outline of the Advanced Setup section. This section is used to manually configure your ISP connection and also define the advanced system parameters, manage and control the Barricade and its ports, or monitor network conditions. 8.1 \ System This section is used to configure the local time zone, password for administrator access, and the IP address of a PC that will be allowed to manage the Barricade remotely.

8.1 \ System This section is used to configure the local time zone, password for administrator access, and the IP address of a PC that will be allowed to manage the Barricade remotely.



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8.1.

1 | Time Zone Use this option to configure the time zone for the Barricade. This information is used for log entries and client access control. In this section you can enable or disable the Automatic Time Server Maintenance feature. This feature uses open-access NTP servers available on the internet to keep your Router Time/Date current. For the best results, choose a Primary Server and Secondary Server. If the Barricade is unable to reach the Primary Server for any reason (i.e. busy) then it will default to the Secondary Server. 16 Barricade g Wireless Router with USB Print Server Manual 8.1.

2 | Password Settings Use this menu to restrict access based on a password. By default, the password is "smcadmin". NOTE: Passwords can contain up to 9 alphanumeric characters and are case sensitive. 8.1.

3 | Remote Management This feature allows a remote PC to configure, manage, and monitor the Barricade using a standard web browser. The default port for WAN remote management is port 8080. To access the Barricade remote management from the Internet you can use any web browser. To access it follow this format for the URL: <http://xxx.xxx>.

xxx.xxx:8080 (xxx.xxx.xxx.xxx = your WAN IP address) 17 Barricade g Wireless Router with USB Print Server Manual 8.1.4 | Syslog Server Use this feature to export Barricade Log information directly to a PC on your network. There are several shareware applications that you can use with this feature, such as the one available from www.kiwisoftware.com.

18 Barricade g Wireless Router with USB Print Server Manual 8.2 | WAN In this section you will specify the Internet connection type that you are using, once you choose Internet option you are using click [More Configuration] button to enter detailed configuration parameters for the selected connection type. 8.2.1

1 | Dynamic (DHCP) IP The Default Internet Connection type is Dynamic or DHCP IP. Most cable modem ISPs use this type of connection. Host Name: The Host Name is optional, but it may be required by some ISPs. MAC Address: A MAC address is a 12-digit code assigned to a unique piece of hardware for identification. Some ISPs will require you to register a MAC address in order to access the Internet. If you do not wish to re-register the MAC address with your ISP, you may assign the MAC address you have currently registered with your ISP to the Barricade by clicking the [Clone MAC Address] button.

NOTE: If you are unsure of which PC the broadband connection originally set up, contact your ISP and request they register a new MAC address for your account. Register using the Barricade's MAC address which can be found on the STATUS page. Need some more help? If you are having problems getting online with your Dynamic IP connection, please refer to Appendix B | Troubleshooting Internet Connections. 19 Barricade g Wireless Router with USB Print

Server Manual 8.2.

2 | PPPoE Some DSL ISPs require a username and password to get online. This type of connection method is called PPPoE or Point-to-Point Protocol over Ethernet. If you have been assigned a username and password from your ISP then you will use this Internet connection option. Username and Password: Enter the PPPoE user name and password assigned by your Internet Service Provider. Service Name: The Service Name is normally optional, but may be required by some service providers.

MTU: The MTU (Maximum Transmission Unit) governs the maximum size of the data packets. Leave this on the default value (1492) unless you have a particular reason to change it. Connect on Demand: Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, it will be dropped. When checked, the [Auto-reconnect] option will automatically re-establish the connection when an application attempts to access the Internet again. WARNING: If you are using an ISP that charges based on the amount of time that you are online, disable the Auto-Reconnect option and set your Max Idle Time to 2 minutes. Need some more help? If you are having problems getting online with your PPPoE connection type, please refer to Appendix B | Troubleshooting Internet Connections.

20 Barricade g Wireless Router with USB Print Server Manual 8.2.3 | PPTP Point-to-Point Tunneling Protocol (PPTP) allows the secure remote access over the Internet by simply dialing in a local point provided by an ISP.

This Internet connection type is mostly used in Europe. IP Address: This information will be provided by your ISP. If you do not have it please contact them.

Subnet Mask: This information will be provided by your ISP. Default Gateway: This information will be provided by your ISP. Username ID and

Password: Enter in the username and password information provided by your ISP. Connect on Demand: Idle Time Out. You can configure the Barricade to disconnect the connection after it has been inactive for a defined amount of time. Manual-connect: This option will require that you click the [Connect] button on the status page after the connection has timed out. Auto-connect: This option will re-connect when you attempt to access the Internet.

Keep session: This option keeps your PPTP online by having the Barricade continually check your internet connection. If you are disconnected it will automatically reconnect you. Need some more help? If you are having problems getting online with your PPPoE connection type, please refer to Appendix B | Troubleshooting Internet Connections. 21 Barricade g Wireless Router with USB Print Server Manual 8.2.

4 | Static IP Address If your ISP has provided you with permanent IP Information, then you will use this option. IP Address: This is the IP Address assigned to you from your ISP. Subnet Mask: This is the Subnet Mask assigned to you from your ISP. Gateway Address: This is the Gateway IP Address assigned to you from your ISP. Note: If you don't have this information, please contact your ISP to obtain it.

CAN'T GET ONLINE? If you are having problems getting online with your Static IP connection type, please refer to Appendix B | Troubleshooting Internet Connections. 8.2.5 | BigPond® Use this section to configure the built-in client. User Name and Password: Enter in the username and password provided by the ISP. Authentication Service Name: login-server is the default setting for this unless required by your ISP this will not need to be changed. 22 Barricade g Wireless Router with USB Print Server Manual 8.2.6 | DNS The Domain Name Services is how the Internet translates domain or website names into Internet addresses (IP Address). Primary Server: This is the IP Address of the first DNS server will be used first to translate the website name into an IP Address.

Secondary Server: If there is a problem with getting the information from the first server, the Barricade will try this alternative server.



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This feature provides 2 configuration options, Static IP DNS Settings and Alternative DNS Settings. Static IP: If you are using the Static IP Internet connection option, you will need to enter in the DNS Server IP Addresses that your ISP provided you. Alternative DNS: With any of the other Internet connection types, you can setup the Barricade g to use a custom DNS server that you want to. 23 Barricade g Wireless Router with USB Print Server Manual 8.3 | LAN From this section, you can configure the Barricade g's LAN interface and DHCP Server settings. LAN IP IP Address: This is the IP Address of your Barricade Router. LAN IP IP Subnet Mask: Default is 255.255.255.

0. DHCP Server: DHCP is enabled by default, if you have another DHCP server on your network or you don't want to use DHCP, click the [Disabled] option. Lease Time: This is the amount of time that a network user will be allowed a connection to the Barricade with there current dynamic IP Address settings. For home networks, this may be set to [Forever], which means there is no time limit on the IP address that is assigned to a client on your network. IP Address Pool Start IP: This is the Starting IP Address of the range of IP Addresses that you want to be available for DHCP clients.

Default is: 192.168.2.100 IP Address Pool End IP: This is the ending IP Address of the range of IP Addresses that you want to be available for DHCP clients. Default is: 192.

168.2.199 NOTE: Do not include the address of the Barricade g in the DHCP client address pool. Domain Name: This is the Domain name that will be assigned to the DHCP clients. 24 Barricade g Wireless Router with USB Print Server Manual 8.4 | WIRELESS From this section, you can enable or disable the wireless mode, configure wireless settings, and enable or disable the wireless security features like WEP and WPA. 8.4.1 | Wireless Settings (SSID and Channel) In this section you can configure all the settings for your wireless network. SSID: This is Name of your wireless network.

Default value is [SMC] SSID Broadcast: When enabled your SSID is broadcasted and viewable by other wireless clients. Default value is [Enabled].

WIRELESS SECURITY: To secure your Wireless Network It is recommended that you change the SSID setting and [Disable] the SSID Broadcast feature to hide your wireless network. Wireless Mode: There are 4 options that you can choose: . . . Mixed Mode in this mode both 802.11b and 802.11g clients can connect to the Barricade g. Long Range Mixed Mode this is a special mode that extends the range of your signal and still allows both 11b and 11g clients to connect. 11g Only in this mode ONLY 802.11g clients can connect to the router. 11b Only in this mode ONLY 802.

11b clients can connect to the router. Transmission Rate: Defines the rate of your wireless signal. It is recommended that you leave this option to [Fully Automatic] Channel: Select the channel from the list that you want to broadcast your wireless signal on. All devices in your wireless network must be broadcast on the same channel in order to function correctly. NOTE: If you are experiencing performance issues (i.

e wireless distance/throughput) try changing the wireless channel you are using. Doing so may give you improved performance. 25 Barricade g Wireless Router with USB Print Server Manual g Nitro: Leave this option enabled for improved performance with distance and throughput with your SMC 11g hardware. 8.4.

2 | Wireless Security The Barricade g supports 3 modes of Wireless Security, including WPA, RADIUS, and WEP. These three modes are outlined in the following sections. . . . WEP Wireless Encryption supports 64- and 128-bit and also a pass-phrase feature to auto generate WEP keys. WPA Wireless Protected Access, uses Dynamic keys that can be manually entered or auto generated with a pre-shared key (PSK) Radius (802.1x) supports authentication through a radius server NOTE: For ultimate flexibility the Barricade g router can be configured to support both WEP and WPA clients. 26 Barricade g Wireless Router with USB Print Server Manual 8.4.3 | WEP WEP is a basic encryption method which is not as secure as WPA. However, for most home users, WEP is satisfactory. WEP Mode: The Barricade g supports 2 WEP modes, 64-bit and 128-bit.

Passphrase: Use this tool to generate a key from a common phrase. Static WEP Keys: Choose this option if you want to configure the WEP keys in the Barricade g. Depending on if 802.1X authentication is enabled a Radius server may be required. Dynamic WEP Keys: If you enable the [Dynamic] key option, the Barricade dynamically generates WEP keys when starting up and provides clients with the keys thru EAPOL packets after clients pass 1X authentication. A Radius server is required. NOTE: When using Dynamic Keys, the 1X authentication should be enabled too, and clients should choose TLS, TTLS, or PEAP to do 1X authentication. WPA/WEP: If you configure both WEP and WPA (PSK) security options then you will configure your wireless WEP clients to use either WEP key 2, 3, or 4. WEP key 1 cannot be used. 27 Barricade g Wireless Router with USB Print Server Manual 8.

4.4 | WPA Wireless Protected Access or WPA is the latest wireless security enhancement that increases the level of data protection for communicating over wireless networks. There are 2 modes of WPA, PSK (pre-shared key) or Radius (803.1.x).

NOTE: To use WPA you must have a Wireless Client adapter that supports WPA as well as a WPA client. For Windows XP users, you can download and install a WPA update from the Microsoft site. Cypher Suite: Only TKIP is supported 802.1X Authentication: Requires a Radius server is configured in the 802.1x section.

Pre-shared Key (PSK) Authentication: Uses a pre-shared key to do authentication. No Radius server is required. The pre-shared key can be generated using with passphrase style or manually defined with 64 HEX characters. Group Key Re-keying: This in the interval time period of renewing broadcast/multicast the dynamic WPA key to each wireless client on your network. NOTE: When both WEP and WPA clients are allowed, the Group Key Re-keying function will automatically be disabled. 28 Barricade g Wireless Router with USB Print Server Manual 8.4.5 | Radius (802.1x) WEP or WPA can be used in coordination with a RADIUS server is connected to the Router or on the same Network. Session Idle Timeout: This is the time (in seconds) that a session will be inactive before terminating.

Set 0 if you do not want the session to timeout. Re-Authentication Period: The time interval required for the client to re-authenticate again. For example, if you set this to 30 seconds, the client will have to re-authenticate every 30 seconds. Quiet Period: This value is the time (in seconds) the Barricade will wait between failed authentications. Server IP: Set the LAN IP address of your Radius Server.



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Server Port: Set the connection port that is configured on the Radius server. **Secret Key:** This is the 802.1X secret key shared between the Barricade g and the Radius server. **NAS-ID:** The NAS ID is an alphanumeric string or an IP address that the RADIUS server uses to identify packets from the server. The value you enter here will be sent in the NAS-Identifier (32) attribute in all Access-Request packets sent to this RADIUS server.

By default, the NAS ID is the name of the server. 29 Barricade g Wireless Router with USB Print Server Manual 8.5 \ NAT From this section, you can configure the Virtual Server and Special Application features that provide control over the port openings in the router's firewall. This section can be used to support several Internet based applications such as online games. 8.

5.1 \ Virtual Server The Virtual Server section allows you to set up public services on your network, such as web servers, ftp servers, e-mail servers, or other specialized Internet applications. (i.e. videoconferencing or online gaming.

) **NOTE:** Some Internet applications may not require any forwarding. To open or forward a port follow the steps outlined below: 1. Enter in the IP Address of the PC on your network that you want all of this data/traffic directed to. 2. Select the Protocol Type. This can be TCP, UDP, or Both types of data. 3. Enter in the LAN or Private port; this is the internal port that you want this traffic directed to. 4. Enter in the WAN or Public Port; this is the external port the traffic will be coming in from the WAN side.

5. Check the Enable option, and click the [Add] button. **NOTE:** If you want to temporarily disable a virtual server rule, simply uncheck the Enable option and click the [Add] button. If you want to remove the virtual server rule, then click the [Clean] button. **Need Port Info?** For a list of the ports required by some of the popular online games and other applications please refer to Appendix C \ SMC Port List for Games and Applications. 30 Barricade g Wireless Router with USB Print Server Manual 8.5.2 \ Special Applications This section allows you to configure dynamic port forwarding rules by using an outgoing trigger port. **Trigger Port:** Enter in the outgoing port that will be used to open the public ports **Trigger Type:** Choose the protocol type, TCP or UDP traffic. **Public Port:** Set the Incoming Range of ports that will be opened by the outgoing trigger port data.

The maximum range that you can use for all NAT ports is 0 to 65535. **Public Type:** Choose the protocol type, TCP or UDP traffic. **Enabled:** You can enable or disable these rules as needed. **NOTE:** For security, if you are not using a Special Applications rule, it is recommended that you disable the rule until needed. **Need Port Info?** For a list of the ports required by some of the popular online games and other applications please refer to Appendix C \ SMC Port List for Games and Applications.

31 Barricade g Wireless Router with USB Print Server Manual 8.6 \ Firewall The firewall does not significantly affect system performance, so we advise enabling it to protect your network users. To enable the Stateful Packet Inspection (SPI) firewall, click on the [FIREWALL] link in the side navigation bar, select the [Enable] option and click the [SAVE SETTINGS] button. Once the Barricade g Firewall is enabled, you will have be able to access several other features, including: Access Control MAC Filter URL Blocking Schedule Rule Intrusion Detection DMZ The following sections outline each of these options. 32 Barricade g Wireless Router with USB Print Server Manual 8.

6.1 \ Access Control Using this option allows you to specify different privileges for the client PCs. This is an excellent tool to control a child's access to specific content and/or general internet access for a specific time and/or date. To setup an Access Control Rule: Click on [Click Add PC] link to access the [Access Control Add PC] configuration page. **Rule Description:** Set a Rule Description so you know what this rule applies to. Ex. Jon's Internet Access. **Client PC IP Address:** Set the IP Address Range of the LAN PCs that you want to apply this rule to. **NOTE:** If you only want to apply the rule to one PC, just enter in the IP address twice. @@@@By default it is set to [Always Blocking].

@@@@This ID is unique to each network adapter. @@@@RIP Defect: Enable/Disable the RIP Defect function of firewall. @@@@Note: For most users the defaults settings will work fine. If you are having throughput slow downs, then you may want to adjust some of the values under the [DoS Detect Criteria] section: · max incomplete sessions from same host from 10 to 30 · incomplete detect sensitive time period from 300 to 600 · flooding cracker block from 300 to 60 39 Barricade g Wireless Router with USB Print Server Manual 8.6.6 \ DMZ (Demilitarized Zone) If you have a client PC that cannot run an Internet application properly from behind the firewall, then you can open the client PC up to unrestricted two-way Internet access. Enter the LAN IP address of a DMZ host and click "Enable". **NOTE:** Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks. Only use this option as a last resort. **WAN IP NOTE:** To support the 7 other DMZ hosts the IP Address entered must be in the same range as the WAN IP Address.

40 Barricade g Wireless Router with USB Print Server Manual 8.7 \ DDNS (Dynamic DNS) The Barricade has an integrated Dynamic DNS feature that provides users on the Internet a method to tie their domain name(s) to computers or servers. DDNS allows your domain name to follow your IP address automatically by having your DNS records changed when your IP address changes. The section also has a "Server Configuration" section that automatically opens the port options checked in the Virtual Server section. Simply enter in the IP Address of your server, such as a web server, and then click on the port option HTTP Port 80 so users can access your server from the WAN connection (Internet).

There are 2 DDNS services supported by this built-in client: DynDNS.org and TZO.com. **Provider:** Choose DynDNS.org (www.dyn dns.org) or TZO.com (www.tzo.com) **Domain Name:** This is the DDNS domain name you have setup with the Provider. **Account / E-mail:** TZO.com uses Account information and DynDNS.org uses an E-mail address for [username] **Password / Key:** TZO.com uses a auto-generated dynamic key for password and DynDNS.org uses a user-defined password.

Server IP: Enter in the LAN IP Address of your Web Server. (ex. 192.168.2.50) **NOTE:** It is recommended that you configure any server on your Network with a static IP addressed. **Server Type:** Choose the port traffic that you want routed through the firewall to your server. 41 Barricade g Wireless Router with USB Print Server Manual 8.8 \ UPnP The Barricade supports UPnP (Universal Plug and Play), a networking architecture that provides compatibility amongst networking equipment.



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This feature allows an UPnP based operating system, like Windows XP to automatically communicate with the Barricade g and open the required services when needed.

NOTE: You will also need to enable this option for non-UPnP based operating systems for Messenger pass-through mode. This will allow Voice, Video, and File Transfer options to work. 8.9 | Tools Use the "Tools" menu to backup the current configuration, restore a previously saved configuration, restore factory settings, update firmware, and reset the Barricade. 8.

9.1 | Configuration Tools Backup: Backup saves the Barricade's configuration to a file. Restore: To restore settings from a saved backup configuration file. Restore to factory defaults: Restores the Barricade settings back to the factory default settings. 8.

9.2 | Firmware Upgrade This tool permits easy downloading of the latest Firmware. Download the upgrade file from the SMC website (www.smc.com) and save it to your hard drive. Browse for the file and then click [BEGIN UPGRADE] button. NOTE: When the upgrade process has completed, check the Status page Information section to confirm that the upgrade process was successful. 8.9.3 | Reboot Click [REBOOT ROUTER] button to reboot the Barricade 8.

The reset will be complete when the power LED stops blinking and the login page is displayed. 42 Barricade g Wireless Router with USB Print Server Manual 8.10 | Status The Status screen displays WAN/LAN connection status, firmware, and hardware version numbers, illegal attempts to access your network, as well as information on DHCP clients connected to your network. INTERNET: Displays WAN connection type, status, and if required connection buttons.

GATEWAY: Displays system IP settings, as well as DHCP, UPnP, Wireless, Firewall, and Printer status. INFORMATION: Displays the number of attached clients, the firmware versions, and the MAC Address for each media interface, as well as the hardware version and serial number. Security Log: Displays illegal attempts to access your network. . . . [Save] Click on this button to save a security log file. [Clear] Click on this button to delete the access log. [Refresh] Click on this button to refresh the screen.

DHCP Client Log: Displays information on all DHCP clients on your network. For additional information on the SMC2804WBRP-G, please visit www.smc.com. 43 Barricade g Wireless Router with USB Print Server Manual CHAPTER 9 | Print Server Setup This chapter will outline the steps to configure the built-in USB print server on the Barricade g Router.

NOTE: This print server will not support multi-function printer devices (ex. Printer, Copier, Fax machine all-in-one) Windows 98/Me If you are running Windows 98 or Windows Me then you will need to install the SMC USB Printer Port utility. This utility will re-direct your print jobs to the Barricade g Router. Installation of SMC USB Printer Port Utility To install, insert the EZ 3-Click Installation Wizard, and click the [Install Printer Utility] button. Once you complete the installation you will need to reboot your PC to complete the installation process.

After the reboot, you are ready to re-configure an existing printer or install a new printer. Configure SMC USB Printer Port with existing Printer Installing a new Printer with the USB Printer Port Utility 44 Barricade g Wireless Router with USB Print Server Manual Windows 2000/XP If you are running Windows 2000 or Windows XP (Home or Professional) you will need to setup the LPR port to redirect printer data to the Barricade g Router built-in USB Print Server.

NOTE: The screen shots shown below were done with a Windows 2000 machine, the same steps apply for a Windows XP machine. Configure LPR port with existing Printer If you already have the Printer that is connected to the USB Print Server on the Barricade g installed on the PC then you will simply need to re-configure the driver to use the LPR port. To do this, follow the steps outlined below: 1. Open the [Printers] window Click [Start] button, choose [Settings], and then click [Printers] option. On Windows XP you will select the [Printers and Faxes] option. 2. In the [Printers] window, locate the icon for your Printer and right-mouse click on it. From the option menu, select the [Properties] options.

45 Barricade g Wireless Router with USB Print Server Manual 3. When the Printer Properties dialog box opens, click the [Ports] tab at the top. In that section, click the [Add Port...] button. This will launch the [Printer Ports] dialog box. 4. In this dialog box, highlight the [Standard TCP/IP Port] option and click the [New Port..

] button to launch the [Add Standard TCP/IP Printer Port Wizard] 5. Click [Next] button to start the installation. 46 Barricade g Wireless Router with USB Print Server Manual 6. On the [Add Port] step, fill in the IP address of the Barricade g.

The default IP is 192.168.2.1. This will automatically fill in the port name but you can change this can be changed.

Click the [Next] button to continue. 7. When the [Additional Port Information Required] dialog box opens, select the [Custom] option and click the [Settings...] button. 47 Barricade g Wireless Router with USB Print Server Manual 8. At the [Configure Standard TCP/IP Port Monitor] dialog box, select [LPR] for the protocol and enter [LPT1] for the Queue name. Click on the [OK] button to save the settings can close this dialog box. 9.

This brings you back to the [Additional Port Information Required] screen. Click the [Next] button to continue. 10. You have completed the installation of the LPR printer port click the [Finish] button to complete the process. 11. This brings you back to the [Printer Port] dialog box; click the [Close] button to return to the [Printer Properties] dialog box. 48 Barricade g Wireless Router with USB Print Server Manual 12. On the [Properties] dialog box click the [Ports] tab at the top and then check or confirm that you have the new LPR port selected (ex. IP_192.168.

2.1). 13. Click on the [Advanced] tab click the [Spool print documents so program finishes printing faster] and [Start printing after last page is spooled] options. 14.

When completed, click the [OK] button, and you are ready to print to the Barricade g with USB Print Server. 49 Barricade g Wireless Router with USB Print Server Manual Installing a new Printer with LPR port 1. Open the [Printers] window Click [Start] button, choose [Settings], and then click [Printers] option. On Windows XP you will select the [Printers and Faxes] option. 2.

In the [Printers] window, click the [Add Printer] icon to launch the [Add Printer Wizard]. 3. When the Local or Network Printer window appears, select the [Local printer] option and UNCHECK the [Automatically detect and install my Plug and Play printer] option. 50 Barricade g Wireless Router with USB Print Server Manual 4. On the [Select the Printer Port] step, choose the [Create a new port] option and choose [Standard TCP/IP Port] from the drop-down menu.



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5. This will launch the [Add Standard TCP/IP Printer Port Wizard], click [Next] to start the wizard. 6. On the [Add Port] step, fill in the IP address of the Barricade g. The default IP is 192.

168.2.1. This will automatically fill in the port name but you can change this can be changed. 51 Barricade g Wireless Router with USB Print Server Manual 7. When the [Additional Port Information Required] dialog box opens, select the [Custom] option and click the [Settings...] button. 8. At the [Configure Standard TCP/IP Port Monitor] dialog box, select [LPR] for the protocol and enter [LPT1] for the Queue name. Click on the [OK] button to save the settings can close this dialog box. 9. This brings you back to the [Additional Port Information Required"] screen, click the [Next] button to continue. 10.

Once you have completed the [TCP/IP Printer Port Wizard], click the [Finish] button to complete the process. 52 Barricade g Wireless Router with USB Print Server Manual 11. Next, you will need to install the latest driver for your Printer. Using the [Add Printer Wizard], choose your printers manufacturer and model then click the [Next] button. NOTE: If your printer is not listed, contact your printer manufacture for help on getting it installed.

12. On the [Name Your Printer] step, you can enter in the Name of your printer, this can be any value. When completed, click the [Next] button to continue. 53 Barricade g Wireless Router with USB Print Server Manual 13. At the [Printer Sharing] screen, select the [Do not share this Printer] option and click the [Next] button to continue. 14. At the [Print Test Page] screen, select the [No] option and click the [Next] button to continue. 54 Barricade g Wireless Router with USB Print Server Manual 15. At this point you have finished the installation of your printer, click the [Finish] button to save these new settings. 16.

When you have finished creating the LPR port and installing the latest printer drivers, then you are ready to configure the printer settings. To access the printers properties, open the printers window and right-mouse click on the new Printer Icon and choose [Properties] 55 Barricade g Wireless Router with USB Print Server Manual 17. On the [Properties] dialog box click the [Ports] tab at the top and then check or confirm that you have the new LPR port selected (ex. IP_192.168.2.1). 18. Click on the [Advanced] tab click the [Spool print documents so program finishes printing faster] and [Start printing after last page is spooled] options. 19.

When completed, click the [OK] button, and you are ready to print to the Barricade g with USB Print Server. 56 Barricade g Wireless Router with USB Print Server Manual APPENDIX A \ Troubleshooting The information outlined in this section describes some useful steps for getting your computer and Barricade router online. A.1 \ Verify you are connected to the Barricade Router If you are unable to access the Barricade's web-based administration pages, then you may not be properly connected or configured. The screen shots in this section were taken on a Windows 2000 machine, but the same steps will apply to Windows 95/98/Me/XP.

To determine your TCP/IP configuration status, please follow the steps below: 1. 2. 3. 4. Click [Start] then choose [Run] Type "cmd" or "command" (without the quotes) to open a DOS prompt.

In the DOS window, type "ipconfig" and verify the information that is displayed. If you computer is setup for DHCP, then your TCP/IP configuration should be similar to the information displayed: . . . IP Address: 192.168.2.X (x is number between 100 and 199) Subnet: 255.255.255.0 Gateway: 192.168.2.

1 If you have an IP address that starts with 169.254.XXX.XXX then see section A.2. If you have another IP address configured, see section A.3. A.2 \ I am getting an IP Address that starts with 169.254.

XXX.XXX If you are getting this IP Address, then you need to check that you are properly connected to the Barricade Router. Confirm that you have a good link light on the Barricade's port to which this computer is connected. If not, please try another cable. If you have a good link light, please open up a DOS window as described in section A.

1 and type "ipconfig /renew" (without the quotes) If you are still unable to get an IP Address from the Barricade, reinstall your network adapter. Please refer to your adapter manual for instructions. 57 Barricade g Wireless Router with USB Print Server Manual A.3 \ I have another IP Address displayed If you have another IP address listed, then the PC may not be configured for a DHCP connection. Please refer to Chapter 4 \ Configure your Computer for information. Once you have confirmed your computer is configured for DHCP, and then please follow the steps below. 1. Open a DOS window as described above. 2. Type "ipconfig /release" (without the quotes) 3. Then type "ipconfig /renew" (without the quotes) Once you are able to get a valid IP address from the Barricade Router, then you can now access the web-based Administration pages. If you still are not getting an IP address from the Barricade, please reset the router as outlined in Chapter 2 and follow the steps outlined in this appendix again. If you still cannot access the router once you have reset it, please contact SMC Technical Support. 58 Barricade g Wireless Router with USB Print Server Manual A.4 \ I can't access my e-mail, web or I am getting corrupted data from the Internet.

The Maximum Transmission Unit (MTU) setting may need to be adjusted. By default, the MTU is set at 1454. For most DSL users, it is strongly recommended to use MTU 1492. If you are having some difficulties, perform the following steps: 1. To connect to the Barricade g, launch your web browser, and enter http://192.168.2.1 or the IP address of the Barricade in the Address bar. 2. Enter the password, if asked.

(The default password is smcadmin.) 3. Click on [WAN] and then select the [PPPoE] option. 4. Look for the MTU option and in the MTU Size field, enter 1492.

5. Click the [SAVE SETTINGS] button to continue. If your difficulties continue, change the Size to different values. Try this list of values, one value at a time, in this order, until your problem is solved: 1462 1400 59 Barricade g Wireless Router with USB Print Server Manual APPENDIX B \ Troubleshooting Internet Connections Put information here about specific ISP tricks and how to avoid those basic setup calls. B.

1 \ I have a Dynamic IP connection and I can't get online Most cable companies use a Dynamic IP configuration to provide Internet access. If you have this type of connection, and are unable to get connected, please follow the steps outlined below: 1. 2. 3. 4. Unplug the power from your Cable or DSL modem for 2 mins. Confirm that your Barricade router is configured for a Dynamic IP configuration Plug the power back into your Modem.



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UDP 27005: Incoming connectivity to this port (or whatever port the client has changed this to, if not using the default). Used for game traffic (including voice) between client and server. 63 Barricade g Wireless Router with USB Print Server Manual Server ===== TCP 7002: Outgoing connectivity to this port on remote destinations. Used for WON auth. UDP 27010: Outgoing connectivity to this port on remote destinations.

Used for advertising a server on the master lists for server browsers. UDP 27011: Communicating with the BanList Server from YOUR Server Was formerly 27013 - much in/out traffic too UDP 27015: Incoming connectivity to this port (or whatever port the server had been changed to, if not the default). Used for all client/server game traffic (including voice), server info requests, etc. P2P Applications: Shareaza KaZaA Lite bitTorrent Emule Trigger TCP 1024-65535 4661 Incoming TCP 1024-65535 4662 Incoming UDP 1024-65535 4665 64 Barricade g Wireless Router with USB Print Server Manual APPENDIX E | Technical Specifications Below is an outline of the Technical Specifications for the Barricade g 2.4 GHz 54 Mbps Wireless Broadband Router with USB Print Server (SMC2804WBRP-G) Standards 802.3, 802.3u, 802.11b, 802.11g, USB 1.1 WAN Port 1 - 10/100Mbps RJ45, with Auto MDI/MDIX LAN Port 4 - 10/100Mbps RJ45, with Auto MDI/MDIX Printer Port 1 USB 1.

1 printer port Supported WAN type Static IP Dynamic IP PPP over Ethernet PPTP Big Pond NAT Maximum 253 Users Protocol IP Protocol TCP/IP v4 DHCP server Proxy DNS server Management and Configuration Web-based Firewall NAT firewall and SPI firewall VPN VPN pass-through including PPTP/L2TP/IPsec User Authentication Password protected browser-based UI PAP/CHAP/MSCHAP Authentication protocol supported Upgrade method Web-based LEDs Power WAN WLAN LAN Link Activity 65 Security 64/128-bit WEP Wi-Fi Protected Access™ 802.1x Frequency Band: 802.11g Radio: 2.4GHz 802.11b Radio: 2.4GHz IEEE 802.11b and g compliant: 11 channels (US, Canada) 13 channels (ETSI) 14 channels (Japan) Antenna Type Two Detachable Antennas with SMA Connectors Antenna Gain 2 dBi Operating Voltage 3.0V ~ 3.6V Power 9V, 1000 mA Operating Temperature 0°~40°C Humidity 10%~90% non-condensing Storage Temperature -400~700C Size 130 x 85 x 32mm (5.12 x 3.35 x 1.26 in) Weight 370g (13.05oz) Compliance FCC Part 15 Class B, Sec. 15.247 and 15.

109 ETS 300 328, ETS 300 826, EN60950 and CE-Mark CSA/TUV Industry Canada DGT Barricade g Wireless Router with USB Print Server Manual APPENDIX F | Compliances FCC STATMENT 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 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 of the following measures: . . . Reorient or relocate the receiving antenna Increase the separation between the equipment or device Connect the equipment to an outlet other than the receiver's Consult a dealer or an experienced radio/TV technician for assistance 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 the party responsible for compliance could void the user's authority to operate this equipment. IMPORTANT NOTE: FCC Radiation Exposure Statement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters (8 inches) between the radiator and your body. This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter. INDUSTRY CANADA (CANADA) This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications. Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par le ministère des Communications. 66 Barricade g Wireless Router with USB Print Server Manual EC DECLARATION OF CONFORMITY (EUROPE) SMC contact for these products in Europe is: SMC Networks Europe, Edificio Conata II, Calle Fructuós Gelabert 6-8, 2o, 4a, 08970 - Sant Joan Despí, Barcelona, Spain. This information technology equipment complies with the requirements of the Council Directive 89/336/EEC on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility and 73/23/EEC for electrical equipment used within certain voltage limits and the Amendment Directive 93/68/EEC. @@Before making connections, make sure you have the correct cord set.

@@@@@Bitte lesen Sie diese Hinweise sorgfältig durch. 2. Heben Sie diese Anleitung für den späteren Gebrauch auf. 3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung. 4. Die Netzanschlußsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein. 5.

Das Gerät ist vor Feuchtigkeit zu schützen. 6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen. 7.

Die Belüftungsöffnungen dienen der Luftzirkulation, die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden. 8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte. 9.

Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden. 10. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten. 11. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.



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