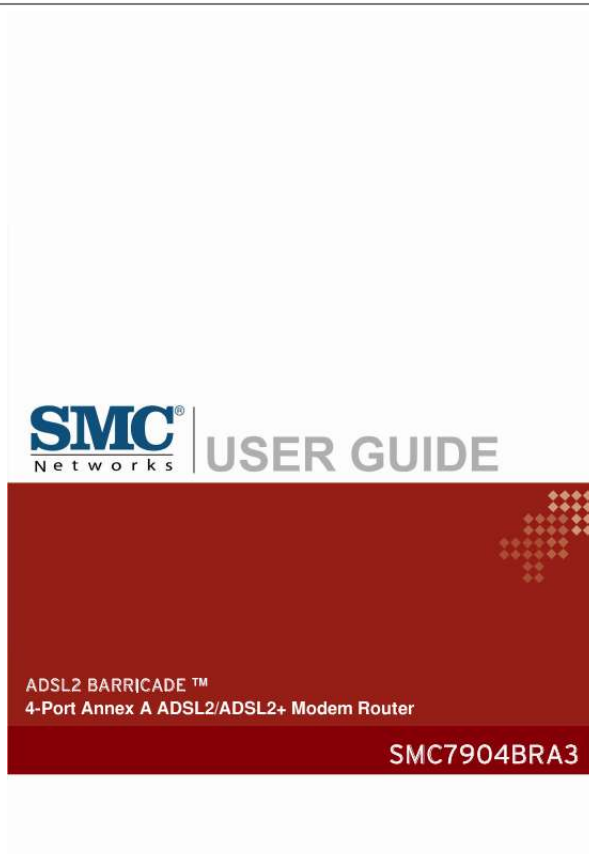




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SMC 7904BRA3. You'll find the answers to all your questions on the SMC 7904BRA3 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SMC 7904BRA3
User guide SMC 7904BRA3
Operating instructions SMC 7904BRA3
Instructions for use SMC 7904BRA3
Instruction manual SMC 7904BRA3



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Manual abstract:

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SMC Networks, Inc. 38 Tesla Irvine, CA 92618 iv SMC7904BRA3 User Manual COMPLIANCES Federal Communication Commission 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 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 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 the party responsible for compliance could void the user's authority to operate this equipment.



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FCC - Part 68 This equipment complies with Part 68 of the FCC rules. This equipment comes with a label attached to it that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company. This equipment uses the following jacks: RJ-11. The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0).

To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area. v SMC7904BRA3 User Manual COMPLIANCES If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary. The telephone company may make changes in its facilities, equipment, operations, or procedures that will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service. If trouble is experienced with this equipment, please contact our company at the numbers shown on back of this manual for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved. No repairs may be done by the customer. This equipment cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

When programing and/or making test calls to emergency numbers: · Remain on the line and briefly explain to the dispatcher the reason for the call. · Perform such activities in off-peak hours such as early morning or late evenings. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone facsimile machine unless such message clearly contains, in a margin at the top or bottom of each transmitted page or on the first page of the transmission the date and time it is sent and an identification of the business, other entity, or individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your facsimile, refer to your communications software user manual. EC Conformance Declaration 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.

vi SMC7904BRA3 User Manual COMPLIANCES Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards: ·EN 55022 ·EN 55024 ·EN 61000-3-2 ·EN 61000-3-3 ·EN 60950-1 CSA Statement This unit is to be used with an external power adaptor of a Class 2 or level 3 type and Approved type suitable for use in the North America of equipment installation, having an output voltage rating of 12 V dc, and output current rating of 1.0A or equivalent. The external AC adapter must be complied with the requirements of LPS (Limited Power Sources). vii SMC7904BRA3 User Manual COMPLIANCES Safety Compliance Wichtige Sicherheitshinweise (Germany) I.

2. 3. 4. 5. 6. 7. 8. 9. Bitte lesen Sie diese Hinweise sorgfältig durch. Heben Sie diese Anleitung für den späteren Gebrauch auf.

Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung. Die Netzanschlussteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein. Das Gerät ist vor Feuchtigkeit zu schützen. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen. Die Belüftungsöffnungen dienen der Luftzirkulation, die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.

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.

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Utilizing the high-speed ADSL connection, the device provide users with broadband connectivity to the Internet or the Intranet for high-end users as net bars, office users, etc. can provide a downlink speed up to 24 Mbps and uplink speed up to 1 Mbps. 1.1 Package List One ADSL device (ADSL four port router) One external splitter One power adapter Two pieces of telephone lines (RJ11) One piece of Ethernet cable (RJ45) One copy of QIG (Quick Installation Guide) One User Manual CD 1.2 Safety Precautions Follow these announcements below to protect the device from risks and damage caused by fire or electric power.

Use volume labels to mark the type of power. Use the power adapter packed within the device package. Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once. Proper space left for heat radiation is necessary to avoid any damage caused by overheating to the device. The long and thin holes on the Access Point are designed for heat radiation to make sure the device works normally.



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Do not cover these heat radiant holes. Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine. Do not put this device close to a place where is over damp or watery. Do not spill any fluid on this device. Do not connect this device to any PC or electronic product, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause any power or fire risk. Do not place this device on an unstable surface or support.

1 SMC7904BRA3 User Manual 1.3 Description of LEDs and Interfaces Front panel Fig 1.3-1 Front panel LED Color Status OFF Power Green/Red GREEN RED RED BLINK OFF Data Green BLINK ON OFF Link Green BLINK ON OFF LAN4/3/2/1 Green BLINK ON No power Device init OK Device init Firmware upgrade No WAN link WAN data transiting WAN link established and active Initial self-test failed Device is detecting itself Initial self-test of the unit is OK and ready No LAN link LAN data transiting LAN link established and active Description Rear panel Fig 1.3-2 Rear panel Item Line Reset LAN1/2/3/4 Line RJ-11 port Resets to factory defaults. To restore factory defaults, keep the device powered on and push a paper clip in to the hole. Press down the button over 5 seconds and then release. Ethernet RJ-45 port 2 Usage SMC7904BRA3 User Manual Item Power On/Off. Power Usage Power connector. DC 12 Voltage/1000mA, female pole is positive. 1.

4 System Requirements Make sure first that you have prepared these following items to guarantee the ROUTER can work normally. Services subscriptions An 10BaseT/100BaseT Ethernet card installed on your PC HUB or Switch. (Attached to several PCs through one of Ethernet interfaces on the device) Operation system: Windows 98SE, Windows 2000, Windows ME, or Windows XP Internet Explorer V5.0 or higher, or Netscape V4.0 or higher, or FireFox 1.

5 or higher. 1.5 Features Supports various line modes Supports external PPPoE dial-up access Supports internal PPPoE/PPPoA dial-up access Supports leased line mode Supports ZIPB (Zero Installation PPP Bridge Mode) Supports 1483B/1483R/MER access Supports multiple PVCs (eight at most) and these PVCs can be isolated from each other Support a single PVC with multiple sessions Support multiple PVCs with multiple sessions Supports the binding of the ports and the PVCs Supports the 802.1Q and 802.1P protocol Supports DHCP server Supports NAT/NAPT Supports static route Supports firmware upgrade: WEB/TFTP/FTP Supports reset to factory default: reset, Web Supports DNS relay Supports Virtual server Supports DMZ functions Supports two-level passwords and usernames 3 SMC7904BRA3 User Manual Supports WEB interface Supports telnet CLI Supports System status display Supports PPP session PAP/CHAP Supports IP filter function Supports IP QoS function Supports remote access control Supports line connection status test Supports remote management (Telnet; HTTP) Supports configuration file backup and restoration function Ethernet supported such as Crossover Detection & Auto-Correction and polarity correction Supports UPnP 4 SMC7904BRA3 User Manual 2 Hardware Installation 1.

Refer to the figure below: Connect the DSL port of the device and the ROUTER port of the splitter with a telephone cable; connect the phone to the Phone port of the splitter through a cable; connect the incoming line to the Line port of the splitter. The splitter has three ports: LINE: Connects to a wall phone jack (RJ-11 jack) ROUTER: Connects to the DSL jack of the device PHONE: Connects to a telephone set 2. Connect the LAN port of the device to the network card of the PC via an Ethernet line (MDI/MDIX). Note: Use twisted-pair cables to connect with the HUB/Switch. 3. Plug the power adapter to the wall outlet and then connect the other end of it to the PWR port of the device. Connection 1: Fig. 2-1 displays the application diagram for the connection of the Router, PC, splitter and telephone set. Fig 2-1 Connection Diagram (Without connecting telephone sets before the splitter) Connection 2: As illustrated in the following figure, the splitter is installed close to the device. 5 SMC7904BRA3 User Manual Fig 2-2 Connection Diagram (Connecting a telephone set before the splitter) It is recommended to follow the Connection 1 in an actual connection! Note: When Connection 2 is used, the filter must be installed close to the telephone lines.

(See Fig. 2-2. Do not use the splitter instead of the filter). Installing a telephone directly before the splitter may lead to a failure of connection between the device and the device of LAN side, or cannot access into the Internet, or slow the connection speed if you really need to add a telephone set before the splitter, you have to add a MicroFilter before connecting to a telephone set. Do not connect several telephones before the splitter. Moreover, do not connect several telephones with MicroFilters. 6 SMC7904BRA3 User Manual 3 Introducing the Web Configurator 3.1 How to Access the Router The following is a detail

"How-To" user guide for the first time users. 1. Open IE browser and enter http://192.168.2.1 in address bar. 2. You are required to enter user name and password.

See the Fig 3.1-1. The super user name and password is admin/smadmin The common user name and password is user/user Fig 3.1-1 3. If you enter as super user, the below screen is displayed when you enter successfully.

Fig 3.1-2 After you enter router as super user, you can check, configure, and modify all the options. You can use the system diagnostic function also. If you enter as common user, you can check the status of Router, but cannot change the most of options. 7 SMC7904BRA3 User Manual 3.2 Status Click Status in the menu to open the sub-menu which contains 6 items: System, LAN, WAN, Port Mapping, Statistic and ARP Table. 3.2.1 System Click System in the sub-menu to open the screen of Fig 3.2.

1. In this page, you can view the current status and some basic settings of this router, for example, Software Version, DSL mode, Upstream Speed, Downstream Speed, Uptime and so on. Fig 3.2.1 3.2.2 LAN Click LAN in the sub-menu to open the screen of Fig 3.2.2. In this page, you can view the LAN IP, DHCP Server status, MAC Address and DHCP Client Table.

If you want to configure the LAN network, refer to section 3.4.1 "LAN Settings". 8 SMC7904BRA3 User Manual Fig 3.2.

2 3.2.3 WAN Click WAN in the sub-menu to open the screen of Fig 3.2.3.

In this page, you can view basic status of WAN, Default Gateway, and DNS Server. If you want to configure the WAN network, refer to section 3.5.1 "WAN Interface". Fig 3.2.3 9 SMC7904BRA3 User Manual 3.2.4 Port Mapping Click Port Mapping in the sub-menu to open the screen of Fig 3.2.

4. In this page, you can view the mapping relation and the status of port mapping. Fig 3.2.4 3.2.5 Statistic Click Statistic in the sub-menu to open the menu in the left bar, which contains two items: Traffic Statistic and DSL Statistic.



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3.2.5.

1. Traffic Statistic Click Traffic Statistic in the left bar to open the screen of Fig 3. 2.5.1.

In this page, you can view the statistics of each network port. 10 SMC7904BRA3 User Manual Fig 3.2.5.1 3.

2.5.2. DSL Statistic Click DSL Statistic in the left bar to open the screen of Fig 3.2.5.2. In this page, you can view the ADSL line statistics, downstream rate, and upstream rate. 11 SMC7904BRA3 User Manual Fig 3.2.

5.2 3.2.6 ARP Table Click ARP Table in the sub-menu to open the screen of Fig 3.2.6. In this page, you can view the table that shows a list of learned MAC addresses. 12 SMC7904BRA3 User Manual Fig 3.2.6 3.

3 Wizard Click Wizard in the menu to open the sub-menu which contains one item: Wizard. Wizard enables speedy and accurate configuration of your Internet connection and other important parameters. The following sections describe these various configuration parameters. Whether you configure these parameters or use the default ones, click 'Next' to enable your Internet connection. When subscribing to a broadband service, you should be aware of the method by which you are connected to the Internet.

Your physical WAN device can be either Ethernet, DSL, or both. Technical information regarding the properties of your Internet connection should be provided by your Internet Service Provider (ISP). For example, your ISP should inform you whether you are connected to the Internet using a static or dynamic IP address, or what protocols, such as PPPOA or PPPoE, you use to communicate over the Internet. Click Wizard in the sub-menu to open the screen of Fig 3.3.

1-1. In this page, you can configure the VPI/VCI number. 13 SMC7904BRA3 User Manual Fig 3.3.1-1 Be sure to use the correct Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) numbers assigned to you. The valid range for VPI is 0 to 255 and for VCI is 32 to 65535(0 to 31 is reserved for local management of ATM traffic). Then press Next, the Fig 3.3.1-2 screen appears. In this page, you can select the WAN Connect Type and the encapsulation method.

Fig 3.3.1-2 The following table describes the fields in this screen. Label 14 Description SMC7904BRA3 User Manual Label WAN Connection Type Encapsulation Mode < Back Next > Description If you select the WAN Connection Type, you can select PPPoA, PPPoE, 1483 MER, 1483 Routed or 1483 Bridged. Select the method of encapsulation used by your ISP from the drop-down list box. Choices are LLC/SNAP or VC-Mux. Click < Back to return to the previous screen Click Next > to go to the next screen If you select PPPoA or PPPoE in WAN Connection Type, click Next, the screen of Fig 3.3.1-3 appears as shown next. Fig 3.

3.1-3 The following table describes the fields of this screen. Label Obtain an IP address automatically Use the following IP address WAN IP Address Enable NAT Description The dynamic IP is not fixed; your ISP assigns you the different one each time. A static IP is a fixed IP that your ISP gives you. Input the IP address of the WAN interface provided by your ISP Select it to enable the NAT functions of the MODEM.

If you are not to enable NAT and intend the user of the MODEM to access the Internet normally, you must add a route on the uplink equipment; otherwise the access to the Internet fails. Normally, it is required to enable NAT. Click < Back to return to the previous screen Click Next > to go to the next screen < Back Next > Then click Next, the screen of Fig3.3.1-4 appears as shown next.

15 SMC7904BRA3 User Manual Fig 3.3.1-4 The following table describes the fields of this screen. Label PPP Username PPP Password PPP Connection Type < Back Next > Description The username and password apply to PPPoE and PPPoA encapsulation only. Make sure that you have entered the correct username and password. Choices are Continuous, Connect on Demand and Manual. Click < Back to return to the previous screen Click Next > to go to the next screen Then click Next, the screen of Fig3.3.1-5 appears as shown next. 16 SMC7904BRA3 User Manual Fig 3.

3.1-5 The following table describes the fields of this screen. Label LAN IP LAN Netmask Enable Secondary IP Secondary LAN IP Secondary LAN Netmask Enable DHCP Server Start IP End IP < Back Next > Description Enter the IP address of your ROUTER in dotted decimal notation, for example, 192.168.2.1 (factory default) Enter the subnet mask of LAN IP. Select this check box to enable the secondary LAN IP Enter the secondary IP address of your ROUTER in dotted decimal notation, for example, 192.168.100.1 (factory default) Enter the subnet mask of the secondary LAN IP Select this check box to enable the DHCP Server This field specifies the first of the contiguous addresses in the IP address pool.

This field specifies the last of the contiguous addresses in the IP address pool. Click < Back to return to the previous screen Click Next > to go to the next screen If you finish the settings of this page, click Next, the screen appears as shown next. 17 SMC7904BRA3 User Manual Fig 3.3.1-7 If you select 1483 MER in Fig 3.

3.1-2, the screen appears as shown next. Fig 3.3.1-8 The following table describes the fields of this screen.

Label Obtain an IP address automatically Description The MODEM obtains a WAN IP address automatically and at this time it enables DHCP Client functions. The WAN IP address is obtained from the uplink equipment like BAS and the uplink equipment is required to enable the DHCP Server functions. 18 SMC7904BRA3 User Manual Label Use the following IP address WAN IP Address WAN Subnet Mask Default Gateway Obtain DNS server addresses

automatically Use the following DNS server addresses Primary DNS server Secondary DNS server Enable NAT Description If you want to input the WAN ip address by yourself. Check this entry and then input related data in the field. Input the IP address of the WAN interface provided by your ISP Input the subnet mask concerned to the IP address of the WAN interface provided by your ISP. You can input the IP address of the default gateway by yourself, click this entry and then input related data in the fields. To obtain the IP address of the DNS server assigned by the uplink equipment such as BAS. If you want to input the IP address of the DNS server by yourself, click this entry and then input related data in the fields. Input the IP address of the primary DNS server here. Input the IP address of the secondary DNS server provided by your ISP here.

Select it to enable the NAT functions of the MODEM. If you are not to enable NAT and intend the user of the MODEM to access the Internet normally, you must add a route on the uplink equipment; otherwise the access to the Internet fails. Normally, it is required to enable NAT. Click < Back to return to the previous screen Click Next > to go to the next screen < Back Next > If you finish the settings of this page, click Next, the screen of Fig 3.3.1-6 appears. For the settings of this screen, see above paragraphs.



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If you select 1483 Routed in Fig 3.3.1-2, the screen of Fig 3.

3.1-9 appears as shown next. Fig 3.3.1-9 The following table describes the fields of this screen.

Label None Obtain an IP address automatically Description The dynamic IP is not fixed; your ISP assigns you the different one each time. 19 SMC7904BRA3 User Manual Label Use the following IP address WAN IP Address WAN Subnet Mask Obtain DNS server addresses automatically Use the following DNS server addresses Primary DNS server Secondary DNS server Enable NAT Description A static IP is a fixed IP that your ISP gives you. Input the IP address of the WAN interface provided by your ISP Input the subnet mask concerned to the IP address of the WAN interface provided by your ISP. To obtain the IP address of the DNS server assigned by the uplink equipment such as BAS. If you want to input the IP address of the DNS server by yourself, click this entry and then input related data in the fields.

Input the IP address of the primary DNS server here. Input the IP address of the secondary DNS server provided by your ISP here. Select it to enable the NAT functions of the MODEM. If you are not to enable NAT and intend the user of the MODEM to access the Internet normally, you must add a route on the uplink equipment; otherwise the access to the Internet fails. Normally, it is required to enable NAT. Click < Back to return to the previous screen Click Next > to go to the next screen < Back Next > 3.4 LAN Click LAN in the menu to open the sub-menu which contains 2 items: LAN Settings and DHCP Settings. You can use the LAN configuration to define an IP address for the DSL Router and configure the DHCP server. 3.4.

1 LAN Settings On this screen you can change the IP address of the device. The preset IP address is 192.168.2.1. This is the Private IP address of the DSL Router. This is the address under which the device can be reached in the local network. It can be freely assigned from the block of available addresses. Click LAN Settings in the sub-menu to open the screen of Fig 3.4.

1. In this page you can configure the LAN network. 20 SMC7904BRA3 User Manual Fig 3.4.1 The following table describes the fields of this screen.

Label IP Address Subnet Mask Secondary IP Apply Changes Description Input the IP of Local area network interface here. We recommend that you use an address from a block that is reserved for private use. This address block is 192.168.2.

1- 192.168.255.254 Select this checkbox to enable the secondary LAN IP. The two LAN IP addresses must be in the different network. Click this button to save the settings of this page. 3.4.2 DHCP Settings DHCP (Dynamic Host Configuration Protocol) allows the individual client (computers) to obtain the TCP/IP configuration at start-up from the centralized DHCP server. You can configure this router as a DHCP server or disable it.

DHCP server can assign IP address, an IP default gateway and DNS server to DHCP clients. This router can also act as a surrogate DHCP server (DHCP Proxy) where it relays IP address assignment from an actual real DHCP server to clients. If the DHCP was disabled, the screen of Fig 3.4.2-1 appears. You can enable/disable DHCP Server or DHCP Proxy. 21 SMC7904BRA3 User Manual Fig 3.4.2-1 If you set to DHCP Proxy, the screen of Fig 3.4.

2-2 appears. Fig 3.4.2-2 The following table describes the fields of this screen. Label DHCP Proxy Description If set to DHCP Proxy, your ROUTER acts a surrogate DHCP Server and relays the DHCP requests and responses between the remote server and the client.

Enter the IP address of the actual, remote DHCP server in this field. Click this button to save the changes of this page. DHCP Server Address Apply Changes If you set to DHCP Server, the screen of Fig3.4.2-3 appears as shown next.

22 SMC7904BRA3 User Manual Fig 3.4.2-3 The following table describes the fields in this screen. Label DHCP Server Description If set to DHCP Server, your ROUTER can assign IP addresses, an IP default gateway and DNS Servers to Windows95, Windows NT and other systems that support the DHCP client. This field specifies the first and the last of contiguous IP address of the IP address pool. Click this button, the screen of Fig 3.5.2-4 appears, which shows the assigned IP address of the clients. @@Input the domain name here if you know. If you leave this blank, the domain name obtained by DHCP from the ISP is used.

While you must enter host name (System Name) on each individual computer, the domain name can be assigned from this router via DHCP server. Enter the IP default gateway of the IP address pool. Click this button, the screen of Fig3.5.2-5 appears. This function allows you assign IP addresses on the LAN to specific individual computers based on their MAC address. Click this button to save the changes of this page. IP Pool Range Show Client Max Lease Time Domain Name Gateway Address MAC-base Assignment Apply Changes Click Show Client, the following window appears. In this window, you can view the IP address assigned to each DHCP client. 23 SMC7904BRA3 User Manual Fig 3.

4.2-4 The following table describes the fields in this screen. Label IP Address MAC Address Description This field displays the IP address relative to the MAC address. This field displays the MAC (Media Access Control) address of the computer. Every Ethernet device has a unique MAC address.

The MAC address is assigned at the factory and consists of six pairs of hexadecimal character, for example, 00-A0-C5-00-02-12. Here shows the lease time. @@Click this button to refresh the Active DHCP Client Table. @@@@Click this button to close this window. @@@@The maximum item of this table is eight.

@@@If select Disable, this PVC is unavailable. Select it to enable the NAPT functions of the MODEM. @@Normally, it is required to enable NAPT. The correct user name that your ISP has provided to you. @@If select Connect on Demand, you need to input the idle timeout time. @@@@This is the IP of WAN interface which is provided by your ISP. This is the gateway IP which is provided by your ISP. This is the Subnet Mask of the Local IP Address. Select this checkbox to enable IP Unnumbered function. @@@@When you finish, click this button to apply the change of this PVC.

@@Click this button to begin configuring this screen afresh. Click this button, the Fig 3.5.1-3 appears. In this page, you can configure the QoS mode of ATM PVCs. For details, see the following pages. Click this button, the following screens appears. In the page, you can modify the parameters of PVCs. , the Fig 3.5.

1-2 appears. @@@@In this page, you can select the DSL modulation. Mostly, the user just need to remain this factory default setting. Our modem support these modulations: G.Dmt, G.

lite, T1.413, ADSL2, ADSL2+, AnnexL and AnnexM. The router negotiates the modulation mode with the DSLAM. Fig 3.5.

2 28 SMC7904BRA3 User Manual 3.6 Advance Click Advance in the menu to open the sub-menu which contains 8 items: DNS, Firewall, Virtual Server, Routing, IP QOS, Anti-dos, Port Mapping and Others.



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3.6.1 DNS Short for Domain Name System (or Service or Server), an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they are easier to remember. The Internet however, is really based on IP addresses. Every time you use a domain name, therefore, a DNS service must translate the name into the corresponding IP address. For example, the domain name *www.example.com* might translate to 198.105.232.4. The DNS system is, in fact, its own network. If one DNS server does not know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned. Click DNS in the sub-menu to open the screen of Fig 3.6.1. Fig 3.

6.1 Label Obtain DNS Automatically Description When this checkbox is selected, this router accepts the first received DNS assignment from one of the PPPoA, PPPoE or MER enabled PVC(s) during the connection establishment. When this checkbox is selected, please enter the primary and optional secondary DNS server IP addresses. Click this button to save the settings of this page. Click this button to begin configuring this screen afresh.

Set DNS Manually Apply Changes Reset Selected 29 SMC7904BRA3 User Manual 3.6.2 Firewall Click Firewall in the sub-menu to open the menu in the left bar, which contains three items: IP/Port Filter, MAC Filter and URL Blocking. 3.6.

2.1. IP/Port Filter Click IP/Port Filter in the left bar to open the screen of Fig 3.6.2.1. Entries in this table are used to restrict certain types of data packets through the Gateway. Use of such filters can be helpful in securing or restricting your local network. Fig 3.6.

2.1 Click Apply Changes to save the settings of this page. Click Add Rule to add a new rule of the IP/Port Filter. 3.6.2.2. MAC Filter Click MAC Filter in the left bar to open the screen of Fig 3.6.2.

2. Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network. Click the button Apply Changes to save the settings of this page. Click the button Add Rule to add a new rule of the MAC Filter.

30 SMC7904BRA3 User Manual Fig 3.6.2.2 3.6.

2.3. URL Blocking Click URL Blocking in the left bar to open the screen of Fig 3.6.2.3. This page is used to configure the Blocked FQDN (Such as *tw.yahoo.com*) and filtered keyword. Here you can add/delete FQDN and filtered keyword.

31 SMC7904BRA3 User Manual Fig 3.6.2.3 3.6.3 Virtual Server Click Virtual Server in the sub-menu to open the menu in the left bar, which contains two items: Services and DMZ Settings. 3.6.3.1.

Services Click Services in the left bar to open the screen of Fig 3.6.3.1. This page is used to enable the servers in the local network.

Fig 3.6.3.1 Click Add to add a virtual server. 3.

6.3.2. DMZ Settings Click DMZ Settings in the left bar to open the screen of Fig 3.6.3.2. A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers. 32 SMC7904BRA3 User Manual Fig 3.

6.3.2 Select the checkbox Enable DMZ to enable this function. Then input a IP Address of the DMZ host. Click the button Apply Changes to save the settings of this page. 3.6.4 Routing Click Routing in the sub-menu to open the menu in the left bar, which contains two items: RIP and Static Route. 3.6.

4.1. RIP Click RIP in the left bar to open the screen of Fig 3.6.4.

1. Enable the RIP if you are using this device as a RIP-enabled router to communicate with others using the Routing Information Protocol. This page is used to select the interfaces on your devices that use RIP, and the version of the protocol used. 33 SMC7904BRA3 User Manual Fig 3.6.

4.1 3.6.4.2. Static Route Click Static Route in the left bar to open the screen of Fig 3.6.4.2-1. This page is used to configure the routing information.

Here you can add/delete IP routes. Fig 3.6.4.2-1 Click Show Routes, the below window appears. The table shows a list of destination routes commonly accessed by your network. 34 SMC7904BRA3 User Manual Fig 3.6.4.2-2 3.

6.5 IP QoS Click IP QoS in the sub-menu to open the screen of Fig 3.6.5. Entries in this table are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, and source/destination IP address/subnet masks.

Fig 3.6.5 3.6.6 Anti-DOS Click Anti-DOS in the sub-menu to open the screen of Fig 3.

6.6. DoS Attack (denial-of-service attack) is a type of attack on a network that is designed to bring the network to its knees by flooding it with useless traffic. In this page, you can configure to prevent DOS attacks. 35 SMC7904BRA3 User Manual Fig 3.6.6 Click the button Apply Changes to save the settings of this page. 3.6.7 Port Mapping Click Port Mapping in the sub-menu to open the screen of Fig 3.

6.7. In this page, you can bind the WAN interface and the LAN interface to the same group. To manipulate a mapping group: 1. Select a group from the table.

2. Select interfaces from the WAN and LAN interface list and add them to the grouped interface list using the arrow buttons to manipulate the required mapping of the ports. 3. Click "Apply Changes" button to save the changes. 36 SMC7904BRA3 User Manual Fig 3.

6.7 3.6.8 Other Click Others in the sub-menu to open the menu in the left bar, which contains four items: IGMP Proxy, UPnP, Bridge and IP PassThrough. 3.

6.8.1. IGMP Proxy Click IGMP Proxy in the left bar to open the screen of Fig 3.6.

8.1. IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts after you enable it. Click Apply Changes to save the settings of this page. 37 SMC7904BRA3 User Manual Fig 3.6.8.1 3.6.

8.2. UPnP Click UPnP in the left bar to open the screen of Fig 3.6.8.2. This page is used to configure UPnP. The system acts as a daemon after you enable it. Click Apply Changes to save the settings of this page. Fig 3.

6.8.2 3.6.8.

3. Bridge Click Bridge in the left bar to open the screen of Fig 3.6.8.3-1.

This page is used to configure the bridge parameters. Here you can change the settings or view some information on the bridge and its attached ports. 38 SMC7904BRA3 User Manual Fig 3.6.8.3-1 Click Show MACs button in Fig 3.6.8.3-1, the below window appears. This table shows a list of learned MAC addresses for this bridge.

Fig 3.6.8.3-2 3.6.8.4. IP PassThrough Click IP PassThrough in the left bar to open the screen of Fig 3.6.8.

4. The IP PassThrough has the other name ZIPB or IP Extension. In this page, you can enable and configure IP PassThrough function. 39 SMC7904BRA3 User Manual Fig 3.6.

8.4 3.7 Admin Click Admin in the menu to open the sub-menu which contains 11 items: Remote Access, Commit/Reboot, Password, Backup/Restore, Upgrade



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3.7.

1 Remote Access Click Remote Access in the sub-menu to open the screen of Fig 3.7.1. In this page, you can enable or disable the services which are used by the remote host. For example, if TELNET service is enabled and port is 23, the remote host can access this router by telnet through port 23. 40 SMC7904BRA3 User Manual Fig 3.7.1 3.7.2 Commit/Reboot Click Commit/Reboot in the sub-menu to open the screen of Fig 3.

7.2. In this page, you can set the router reboot to default settings or set the router save the current settings then reboot. Fig 3.7.2 Label reset to default settings commit current settings Reboot Description Select this checkbox to reset router to default settings. Select this checkbox to save the current settings and reboot router. Click this button to reboot the router according to the above option. 41 SMC7904BRA3 User Manual 3.7.

3 Password Click Login Password in the sub-menu to open the screen of Fig 3.7.3. In this page, you can change the password of the user, include admin and user. The super user name and password are admin/admin as default, and the common user name and password are user/user.

Fig 3.7.3 Label User Name Old Password New Password Confirmed Password Apply Changes Reset Description Select the user name in the drop-down list box. The choices are admin and user. After selected the user name, input the old password of the user here.

Input the new password what you want to set of the user. Input the new password again. Click this button to save the settings of this page. Click this button to begin configuring the password afresh. 3.7.4 Backup/Restore Click Backup/Restore in the sub-menu to open the screen of Fig 3.7.4. In this page, you can backup the current settings to a file and restore the settings from the file which was saved previously.

IMPORTANT! Do not turn off your router or press the Reset button while these procedures are in progress. 42 SMC7904BRA3 User Manual Fig 3.7.4 Label Save Settings to File Load Settings from File Upload Description Click the Save button, then select the path and save the configuration file of your router. Click the Browse button to select the configuration file. Selected the configuration file of router, click Upload button to begin restore the router configuration.

3.7.5 Upgrade Firmware Click Upgrade Firmware in the sub-menu to open the screen of Fig 3.7.

5. In this page, you can upgrade the firmware of this router. **IMPORTANT!** Do not turn off your router or press the Reset button while this procedure is in progress. 43 SMC7904BRA3 User Manual Fig 3.7.

5 Label Select File Upload Reset Description Click the Browse button to select the Firmware file. Selected the Firmware file, click Upload button to begin upgrading the Firmware. Click this button to begin selecting the Firmware file afresh. 3.7.

6 Time Zone Click Time Zone in the sub-menu to open the screen of Fig 3.7.6. In this page, you can set the system time manually or get the system time from the time server. 44 SMC7904BRA3 User Manual Fig 3.7.6 Label Refresh Time Mode Enable SNTP Client Update SNTP Server Time Zone Apply Changes Description Click this button to refresh the system shown in the page. If select Time Server, the router obtains the system time from the time server. If select Manual, you should configure the system time manually. If select this checkbox, you can choose the correct SNTP Server which you want.

Choose the SNTP Server here. Select the Time Zone of in which area you are. Click this button to save the settings of this page. 3.7.7 System Log Click System Log in the sub-menu to open the screen of Fig 3.7.7. In this page, you can enable or disabled the System log function, view the system log. 45 SMC7904BRA3 User Manual Fig 3.

7.7 Label System Log Apply Changes Refresh Description You can enable or disable the System Log function. Click this button to save the settings of this page. Click this button to refresh the system log shown in the text field. 3.

7.8 SNMP Click SNMP in the sub-menu to open the screen of Fig 3.7.8. In this page, you can set the SNMP parameters.

46 SMC7904BRA3 User Manual Fig 3.7.8 Label Trap IP Address Community name (read-only) Community name (write-only) Apply Changes Reset Description Enter the IP address of the trap host. The trap information is sent to this host. The network administrators must use this password to read the information of this router. The network administrators must use this password to configure the information of this router. Click this button to save the settings of this page. Click this button to begin configuring this screen afresh. 3.7.

9 ACL Click ACL in the sub-menu to open the screen of Fig 3.7.10. In this page, you can configure the IP Address for Access Control List. If ACL enabled, only the effective IP in ACL can access ADSL Router. 47 SMC7904BRA3 User Manual Fig 3.7.10 Step 1: If you want to enable ACL, select "Enable" and click "Apply Changes". Step 2: Configure Access Control List. Step 3: Click "Apply Changes" to effect the configuration.

Note: If you check "Enable" in ACL Capability, please make sure that your host IP is in ACL List before it takes effect 3.8 Diagnostic Click Diagnostic in the menu to open the sub-menu which contains 4 items: Ping, ATM Loopback, ADSL and Diagnostic. 3.8.1 Ping Click Ping in the sub-menu to open the screen of Fig 3.

8.1. 48 SMC7904BRA3 User Manual Fig 3.8.1 Label Host Address Send Description Enter the IP Address here.

Click this button to begin to Ping the Host Address. 3.8.2 ATM Loopback Click ATM Loopback in the sub-menu to open the screen of Fig 3.8.2. In this page, you can use VCC loopback function to check the connectivity of the VCC. Fig 3.8.2 Apply Changes: Click this button to begin testing.

49 SMC7904BRA3 User Manual 3.8.3 ADSL Click ADSL in the sub-menu to open the screen of Fig 3.8.3. This page is used for ADSL Tone Diagnostics. Fig 3.8.3 Go!: Click this button to begin ADSL Tone Diagnostics. 3.

8.4 Diagnostic Click Diagnostic in the sub-menu to open the screen of Fig 3.8.4. This page is used for testing your DSL connection.

Fig 3.8.4 Run Diagnostic Test: Click this button to begin testing. 50 SMC7904BRA3 User Manual Appendix A Questions & Answers This section describes common problems you may encounter and possible solutions to them. The Barricade can be easily monitored through panel indicators to identify problems.

1. Question: Why all LED indicators are off? Answer: Check the connection between the power adaptor and the power socket Check the power switch is on or not 2. Question: Why LAN LED is not lighting? Answer: Check the connection between the ADSL modem and your computer or Hub/Switch Check your PC or Hub/Switch running status and make sure them are working normally. 3. Question: Why ADSL LED is not lighting? Answer: Check the connection between the ADSL "line" port and the wall jack.



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4. Question: Why cannot visit Internet with ADSL LED is on? Answer: Make sure following information has been input correctly: VPI/VCI User/password. 51 SMC7904BRA3 User Manual 5. Question: Why cannot open the Modem configuring web page? Answer: Follow below steps to check the communication between the computer and Modem: Click start -> run (input ping demands)-> Ping 192.168.

2.1 (MODEM IP address). If cannot reach the modem, please check following configuration: The type of the network cable The connection between the modem and computer You computer's TCP/IP configuration 6. Question: How to load the default setting after incorrect configuration? Answer: Press "reset" button 5s-10s to load the default configuration. The modem's default IP address: 192.168.2.1/255.255.255.

0, Username/password: admin/smcadmin 52 SMC7904BRA3 User Manual Appendix B Technical Specifications External Connectors 1 push power switch 1 DC power jack 1 factory reset button 4 LAN 10/100M Auto MDI/MDIX RJ45 ports 1 WAN RJ11 DSL port Protocol Feature Bridging/Routing RFC 1483 Bridge IEEE 802.1D transparent bridging Bridge Filtering RFC 1483 Router RIP 1 & 2 supported DHCP (RFC1541) Server, Relay Network Address Translation (NAT)/ Network Address Port Translation (NAPT) DNS relay IGMP v1 and v2 Encapsulation RFC 1483 router/bridge PPPoA PPPoE MER ADSL Feature Support ANSI T1.413 Issue2 Support ITU G.992.1(G.

dmt) Annex A Support ITU G.992.2 (G.lite) Annex A Support ITU G.992.

3 ADSL2(G.dmt.bis) Annexes A, L, M Support ITU G.992.4 ADSL2(G.lite.bis) Support ITU G.992.5 ADSL2plus 53 SMC7904BRA3 User Manual Ethernet Feature Fully compliant with IEEE802.3/802.

3u auto-negotiation function Support 10base-T, 100base-TX Support half duplex, full duplex Support back pressure flow control for half duplex, IEEE802.3x flow control for full duplex Support MDI/MDIX auto cross Management Support Support WEB/TFTP mode which use as native and long-distance edition upgrade Support test estate of circuitry connectDiagnostics Support WEB interface setting Support Telnet CLI command line Support user setting the reset fuctionhardware reset or WEB interface mode Support configuration files backup and resume function Support LAN port IP address amend function Support System LOG function Support SNMP V1/V2C native and long-distance controlMIB RFC1213/ADSL line MIB RFC 2662 ATM MIB RFC 2515 Support SNTF enactment Security Support Support firewall function Support the passwords of two grades of users and can be revised Support and sign electronically the function (prevent the different kind of editions from upgrading each other) Support DOS (Denial of service) which detect & protect a number of attacks (such as SYN/FIN/RST Flood, Smurf, WinNuke, Echo Scan, Xmas Tree Scan) Packet filter based on IP and port Access control based on MAC PAP, CHAP authentication Environment Operating temperature: 0 to 40(32°F to104°F) Storage temperature: -20 to 70(-13°F to131°F) Operating humidity: 10%~85% Non-Condensing Storage humidity: 5%~95% Non-Condensing External adapter spec: Input: AC220V, 50Hz. Output: 12V DC, 1000 mA(min) Dissipation7W (max) 54 SMC7904BRA3 User Manual Appendix C GPL Announcement GNU GENERAL PUBLIC LICENSE Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Preamble The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too. When we speak of free software, we are referring to freedom, not price.

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