

# **Compact USB 2.0 to 10/100 Mbps Ethernet Adapter**

**User Guide**

**SMC2209USB/ETH**

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## Compliances

### FCC - Class B

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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient 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

**FCC Caution:** To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

### CAUTION STATEMENT:

#### 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 5 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Note: In order to maintain compliance with the limits of a Class B digital device, SMC requires that you use a quality interface cable when connecting to this device. Changes or modifications not expressly approved by SMC could void the user's authority to operate this equipment.

Attach unshielded twisted-pair cable (UTP) to the RJ-45 port and shielded USB cable to the USB port.

### EC Conformance Declaration – Class B

SMC contact for these products in Europe is:

SMC Networks Europe,  
Edificio Conata II  
Calle Fructuos Gelabert 6-8, 2o, 4a  
08970 – Sant Joan Despi  
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 72/23/EEC for electrical equipment used within certain voltage limits and the Amendment Directive 93/68/EEC.

## 1 | Hardware Description

The SMC2209USB/ETH Compact USB 2.0 to 10/100 Mbps Ethernet Adapter is equipped with:

- 1 RJ-45 connector for 10/100 Mbps connections
- 3 LED Indicators – 10, 100, F/H (Full/Half Duplex)
  - 10/ACT: Solid light indicates a 10 Mbps Ethernet connection and a blinking light indicates traffic
  - 100/ACT: Solid light indicates a 100 Mbps Ethernet connection and a blinking light indicates traffic
  - F/H Duplex: Solid light indicates full duplex and no light indicates half duplex



### Section 1.1 | Features / Benefits

- Backwards Compatible with USB 1.0/1.1 USB Ports
- Compact Design facilitates ease of use with both Desktop and Notebook PCs
  - Also features easy to read LEDs
- Powered by Host PC so no external power supply is needed
- Driver support for Windows 98, Me, 2000, and XP
- Plug-and-Play Compatible with Windows 98, Me, 2000, and XP
  - The SMC2209USB/ETH provides compatibility with your computer and interoperability with your existing network products by providing drivers for the major Windows Operating Systems.
- Connects at Full 100Mbps via USB 2.0, up to 40 times faster than a USB 1.1 adapter!
  - Hi-Speed USB 2.0 allows for 480 Mbps transfer speeds for rapid data transfer of digital content.
- Full and Half Duplex support for both 10 and 100 Mbps speeds
- Auto-negotiation selects 10/100 Mbps and half/full duplex automatically
- Supports IEEE 802.3 10 Mbps and IEEE 802.3u 100 Mbps Ethernet function
- Supports USB suspend/resume logic

## **2 | Package Contents**

After unpacking the SMC2209USB/ETH, check the contents of the box to be sure you have received the following components:

- 1 SMC2209USB/ETH Ethernet Adapter
- 1 SMC2209USB/ETH EZ Installation Wizard and Documentation CD
- 1 EZ Quick Installation Guide

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

Please register this product and upgrade the product warranty at SMC's Web site:  
<http://www.smc.com>

## **3 | System Requirements**

To use the SMC2209USB/ETH, you must have:

- A host PC that supports the Universal Serial Bus (USB 2.0 recommended for maximum throughput)
- 200mhz or faster processor
- 64 MB of RAM (recommended)
- Windows 98, Me, 2000, or XP

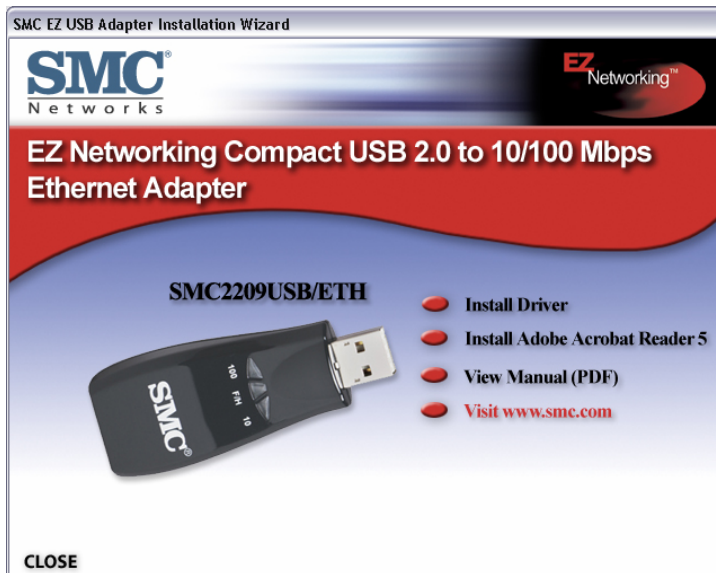
## 4 | Driver Installation – Option 1 (Recommended) Windows 98/Me/2000/XP

**NOTE:** Installation processes will require the use of your original, licensed copy of Windows. Please have your Windows CD available BEFORE proceeding with the installation.

This Installation method makes the process as simple and Plug-and-Play as possible. Simply run the driver/utility program, reboot your machine and insert your SMC2209USB/ETH Ethernet Adapter. It's as easy as 1-2-3.

**Step 1:** Insert the EZ Installation Wizard and Documentation CD.

**Step 2:** Click the [Install Driver] button.



**Step 3:** Please shut down your machine and insert your SMC2209USB/ETH. Once the Windows Operating System is booted up, it will find the new hardware and automatically install it.

### Section 4.1 | Other Setup Processes

The following are Operating System-specific options that may appear during this installation procedure:

**Windows 98/Me:** If you are using Windows 98 or Me, you must have your original Windows CD on hand. The system may request it near the end of the installation process.

**Windows 2000/XP:** Select [Install the software automatically] if prompted and click [Next] to complete the installation.

## 5 | Driver Installation – Option 2 Windows 98/Me/2000/XP

### Section 5.1 | Windows 98

**NOTE:** Installation processes will require the use of your original, licensed copy of Windows. Please have your Windows CD available BEFORE proceeding with the installation.

**Step 1:** After you have inserted the SMC2209USB/ETH in your machine, the Operating System will automatically recognize the adapter and prompt you for the appropriate drivers. Click the [Next >] button to begin the installation.

**Step 2:** Insert the EZ Installation Wizard and Documentation CD and select the [Search for the best driver for your device] option and click [Next >].

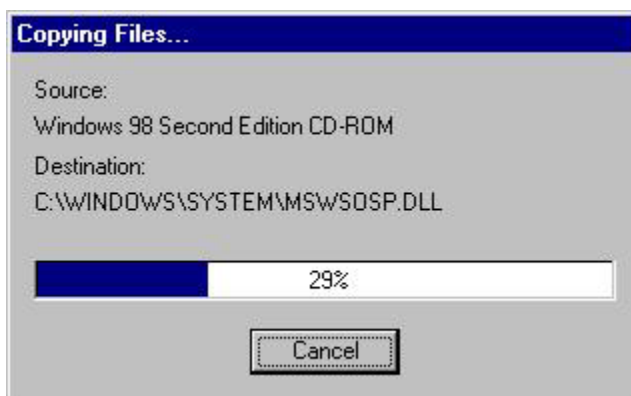
**Step 3:** Clear all checkboxes except for [Specify a location:]. Then press the [Browse] button and look for the drivers on your CD-ROM. Browse to the root directory - ?:\. (Note: The "?" equals the letter of your CD-ROM drive. In most cases, this is **D**.)

**Step 4:** The system should find the drivers. Click the [Next >] button to continue the installation. The wizard will show "SMC EZ Networking Compact 10/100 USB 2.0 Adapter".

(Note: If the system could not find the drivers, click the [< Back] button, and select the [Display a list of all the drivers...] option. Select [Network Adapters] from the list of devices, press [Have Disk] and once again browse to the location of the drivers)

**Step 5:** Once the system has copied the SMC drivers from the CD, it may then request files from your original Windows disk. Please insert the Windows CD at this time.

**Step 6:** The system will copy the files. Do NOT press [Cancel].



**Step 7:** Once all the necessary files are copied from the Windows CD, the driver install process will be complete. Click [Finish] to exit the wizard.



**Step 8:** You will then be prompted to reboot the machine. Press [Yes]. Upon reboot, the SMC2209USB/ETH will be initialized and ready for use.

## Section 5.2 | Windows Me

**NOTE:** Installation processes will require the use of your original, licensed copy of Windows. Please have your Windows CD available BEFORE proceeding with the installation.

**Step 1:** After you have inserted the SMC2209USB/ETH in your machine and turned it back on, the OS will automatically recognize the adapter and prompt you for the appropriate drivers. Select the [Specify the location of the driver] option. Then click the [Next >] button to begin the installation.

**Step 2:** Insert the Driver CD and select the [Specify a location:] option. Clear the [Removable Media] checkbox. Then press the [Browse] button and look for the drivers on your CD. This should be located in the root directory - ?:\. (Note: The ? equals the letter of your CD-ROM drive. In most cases, this is **D**.) Then click [Next >].



**Step 3:** The system should find the drivers. Click the [Next >] button to continue the installation.

(Note: If the system could not find the drivers, click the [< Back] button, and select the [Display a list of all the drivers] option. Select [Network Adapters] from the list of devices, press [Have Disk] and once again browse to the location of the drivers)

**Step 4:** Once all the necessary files have been copied, the driver installation is complete. Click [Finish] to exit the wizard.

**Step 5:** You will then be prompted to reboot the machine. Press [Yes]. Upon reboot, the SMC2209USB/ETH will be initialized and ready for use.



## Section 5.3 | Windows 2000/XP

**Step 1:** After you have inserted the SMC2209USB/ETH in your machine and turned it back on, the Operating System will automatically recognize the adapter and prompt you for the appropriate drivers. Click the [Next >] button to begin the installation.

**Step 2:** Insert the EZ Installation Wizard and Documentation CD and select the [Search for a suitable driver...] option. Then click [Next >].

**Step 3:** Clear all checkboxes except for [Specify a location]. Then click [Next >].



**Step 4:** You will then be prompted to enter the location of the drivers. This should be ?:\. (Note: The ? equals the letter of your CD-ROM drive. In most cases, this is **D**.) Then click [OK]. You can also click [Browse] and browse to the root directory of the CD for the drivers for further verification.

**Step 5:** The system should find the drivers. Click the [Next >] button to continue the installation.

(Note: If the system could not find the drivers, click the [< Back] button, and select the [Display a list of the known drivers...] option. Select [Network Adapters] from the list of devices, press [Have Disk] and once again browse to the location of the drivers)

**Step 6:** You have now completed the driver installation. Click [Finish] to initialize the adapter.

## **6 | Driver Verification**

### **Windows 98/Me/2000/XP**

#### **Section 6.1 | Windows 98/Me**

**Step 1:** Right-click the My Computer icon on your desktop and click [Properties].

**Step 2:** Then go to the [Device Manager] tab and open the [Network adapters] section. You should see your SMC EZ Networking Compact 10/100 USB 2.0 Adapter in this menu. Highlight it and click [Properties].

**Step 3:** The Device Status shows that the "This device is working properly". If there are any error messages displayed here, you will need to click the SMC adapter and click [Remove]. Then reboot the machine and go through the installation process again.

#### **Section 6.2 | Windows 2000**

**Step 1:** Right-click the My Computer icon on your desktop and click [Properties].

**Step 2:** Then go to the Hardware tab and click [Device Manager]. Open the [Network adapters] section. You should see your SMC EZ Networking Compact 10/100 USB 2.0 Adapter in this menu. Right-click your adapter and click [Properties].

**Step 3:** The Device Status shows that the "This device is working properly". If there are any error messages displayed here, you will need to right-click the SMC adapter and click [Uninstall]. Then reboot the machine and go through the installation process again.

#### **Section 6.3 | Windows XP**

**Step 1:** Click [Start] and click [Control Panel]. Then click the [Performance and Maintenance] icon and select [System].

**Step 2:** Then go to the Hardware tab and click [Device Manager]. Open the [Network adapters] section. You should see your SMC EZ Networking Compact 10/100 USB 2.0 Adapter in this menu. Right-click the adapter and click [Properties].

**Step 3:** The Device Status shows that "This device is working properly". If there are any error messages displayed here, you will need to right-click the SMC adapter and click [Uninstall]. Then reboot the machine and go through the installation process again.

## 7 | Troubleshooting

- **You cannot connect to the network**
  - You did not install the software driver properly. Please see Section 6 to verify this. If you do not see your adapter in the device manager, please repeat the installation process starting from Section 5.
- **The link lights on the adapter are off.**
  - There is a connection or cabling problem. Check that the network switch or router is properly turned on. Be sure that the network cable is properly connected to both devices.
  - Verify that Category 5 cable is used for 100 Mbps connections and that the length of the cable does not exceed 100m (328ft). Check the network cable and connections for defects and replace the cable if necessary.
- **You cannot access the internet.**
  - You have not configured your computer for TCP/IP. If your network does not have a DHCP server (which can dynamically assign an IP address to your computer when it connects to the network), contact your network administrator to obtain a valid IP address. Click on the Network icon in the Control Panel, and specify the required TCP/IP settings. Then reboot your computer to enable the new settings.
- **Windows doesn't detect new hardware when you connect the SMC2209USB/ETH, or it continues to detect the adapter each time the PC is restarted**
  - You might not have securely installed the adapter in your computer. Please make sure that the SMC2209USB/ETH is properly seated and inserted in the USB port.
  - There may be BIOS issues with the PC. The system BIOS may not be USB compatible or your PC's USB settings may not be enabled. Check with the motherboard manufacturer on how to enable this setting in the BIOS. Also check for the latest BIOS upgrade and perform the update if necessary.
- **You have tried swapping cables and confirmed that proper power is being supplied to your network switch/router and you still cannot get connected to the network.**
  - You may need to configure the adapter to connect at a specific speed. In Windows 98 and Me, right-click **Network Neighborhood** or **My Network Places**. Select "Properties". Click the "Configuration" tab. Double-click the SMC2209USB/ETH adapter, go the "Advanced" tab and select "Connection Type". On the right, change the option to "10BaseT (Twisted Pair)". Then click "OK" to exit and apply the changes. Try other connection types as well if the problem still exists.
  - In Windows 2000 and XP, right-click **My Computer** and click "Properties". Go to the "Hardware" tab and click "Device Manager". Double-click your SMC adapter and go to the "Advanced" tab. Change the "Connection Type" to "10BaseT (Twisted Pair)" and click "OK" to exit and apply the changes. Try other connection types as well if the problem still exists.

## 8 | Cable Types and Specifications

Cable Types and Specifications			
Cable	Type	Max. Length	Connector
10Base-T	Cat. 3, 4, 5 100-ohm UTP	100 m (328ft)	RJ-45
100Base-TX	Cat. 5 100-ohm UTP	100 m (328ft)	RJ-45

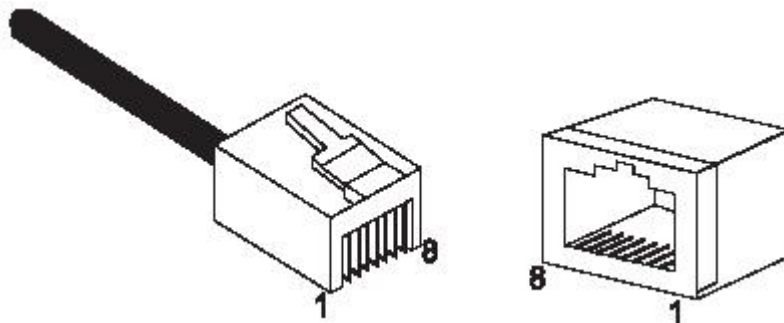
### Twisted-Pair Cable and Pin Assignments

DO NOT plug a phone jack connector into any RJ-45 port. Use only twisted-pair cables with RJ-45 connectors that conform with FCC standards.

For 10Base-T / 100Base-TX connections, a twisted-pair cable must have two pairs of wires. Each wire pair is identified by two different colors. For example, one wire might be red and the other red with white stripes. Also, an RJ-45 connector must be attached to both ends of the cable.

**Caution:** Each wire pair must be attached to the RJ-45 connectors in a specific orientation.

The figure below illustrates how the pins on the RJ-45 connector are numbered. Be sure to hold the connectors in the same orientation when attaching the wires to the pins.



With 10Base-T/100Base-TX cable, pins 1 and 2 are used for transmitting data, and pins 3 and 6 for receiving data. The "+" and "-" signs in the table below are used to represent the polarity of the wires that make up each wire pair.

RJ-45 Pin Assignments	
Pin	Assignment
1	Tx+
2	Tx-
3	Rx+
6	Rx-

## 9 | Technical Specifications

### Standards:

IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-TX  
IEEE 802.3x 100Base-TX Flow Control support

### Host Interface:

USB 1.0/1.1, 2.0

### Ports:

One USB Type A / Male Connector  
One RJ45 port for 10Base-T and 100Base-TX

### LED:

10/ACT, 100/ACT, F/H

### Operating Systems:

Windows 98, Me, 2000, XP

### Environment:

Operating: Temp 0-50°C / Humidity 10-90%  
Storage: Temp -20-65°C / Humidity 10% - 90%

### Dimensions:

74.5 x 28.1 x 15.1 (L x W x H)

### Power Consumption:

- 10 Mbps mode: Max 293 mA @5V  
- 100 Mbps mode: Max 300 mA @5V

### Compliances/Certifications:

FCC Part 15 Class B  
CISPR PUB.22  
EN55022: 1994/A1: 1995/A2: 1997 Class B  
EN61000-3-2: 2000  
EN61000-3-3: 1995/A1: 2001  
EN55024: 1998/A1: 2001  
EN61000-4-2: 1995  
IEC 61000-4-2: 1995  
IEC 61000-4-3: 1995  
IEC 61000-4-4: 1995  
IEC 61000-4-5: 1995  
IEC 61000-4-6: 1996  
IEC 61000-4-8: 1993  
IEC 61000-4-11: 1994

## 10 | Terminology

10BaseT - Physical Layer Specification for Twisted-Pair Ethernet using Unshielded Twisted Pair wire at 10Mbps. This is the most popular type of LAN cable used today because it is very cheap and easy to install. It uses RJ-45 connectors and has a cable length span of up to 100 meters. There are two versions, STP (Shielded Twisted Pair) which is more expensive and UTP (Unshielded Twisted Pair), the most popular cable. These cables come in 5 different categories. However, only 3 are normally used in LANs, Category 3, 4 and 5. CAT 3 TP (Twisted Pair) cable has a network data transfer rate of up to 10Mbps. CAT 4 TP cable has a network data transfer rate of up to 16Mbps. CAT 5 TP cable has a network data transfer rate of up to 100Mbps.

Access Point - A device that is able to receive wireless signals and transmit them to the wired network, and vice versa - thereby creating a connection between the wireless and wired networks.

Ad Hoc - An ad hoc wireless LAN is a group of computers, each with LAN adapters, connected as an independent wireless LAN.

Adapter - A device used to connect end-user nodes to the network; each contains an interface to a specific type of computer or system bus, e.g. EISA, ISA, PCI, PCMCIA, CardBus, etc.

Auto-Negotiation - A signaling method that allows each node to define its operational mode (e.g., 10/100 Mbps and half/full duplex) and to detect the operational mode of the adjacent node.

Backbone - The core infrastructure of a network. The portion of the network that transports information from one central location to another central location where it is unloaded onto a local system.

Base Station - In mobile telecommunications, a base station is the central radio transmitter/receiver that maintains communications with the mobile radiotelephone sets within its range. In cellular and personal communications applications, each cell or micro-cell has its own base station; each base station in turn is interconnected with other cells' bases.

BSS - BSS stands for "Basic Service Set". It is an Access Point and all the LAN PCs that are associated with it.

CSMA/CA - Carrier Sense Multiple Access with Collision Avoidance

DHCP - Dynamic Host Configuration Protocol. This protocol automatically configures the TCP/IP settings of every computer on your home network.

DNS - DNS stands for Domain Name System, which allows Internet host computers to have a domain name (such as www.smc.com) and one or more IP addresses (such as 192.34.45.8). A DNS server keeps a database of host computers and their respective domain names and IP addresses, so that when a domain name is requested (as in typing " www.smc.com" into your Internet browser), the user is sent to the proper IP address. The DNS server address used by the computers on your home network is the location of the DNS server your ISP has assigned.

DSL - DSL stands for Digital Subscriber Line. A DSL modem uses your existing phone lines to transmit data at high speeds.

Ethernet - A standard for computer networks. Ethernet networks are connected by special cables and hubs, and move data around at up to 10 million bits per second (Mbps).

ESS - ESS (ESS-ID, SSID) stands for "Extended Service Set". More than one BSS is configured to become an Extended Service Set. LAN mobile users can roam between different BSSs in an ESS (ESS-ID, SSID).

Fast Ethernet NIC - Network interface card that is in compliance with the IEEE 802.3u standard. This card functions at the media access control (MAC) layer, using carrier sense multiple access with collision detection (CSMA/CD).

Fixed IP – (see Static IP)

Full-Duplex - Transmitting and receiving data simultaneously. In pure digital networks, this is achieved with two pairs of wires. In analog networks, or digital networks using carriers, it is achieved by dividing the bandwidth of the line into two frequencies, one for sending, one for receiving.

Hub - Central connection device for shared media in a star topology. It may add nothing to the transmission (passive hub) or may contain electronics that regenerate signals to boost strength as well as monitor activity (active/intelligent hub). Hubs may be added to bus topologies; for example, a hub can turn an Ethernet network into a star topology to improve troubleshooting.

IP Address - IP stands for Internet Protocol. An IP address consists of a series of four numbers separated by periods, that identifies an single, unique Internet computer host. Example: 192.34.45.8.

ISP - Internet Service Provider. An ISP is a business that provides connectivity to the Internet for individuals and other businesses or organizations.

LAN - A communications network that serves users within a confined geographical area. It is made up of servers, workstations, a network operating system and a communications link. Servers are high-speed machines that hold programs and data shared by network users. The workstations (clients) are the users' personal computers, which perform stand-alone processing and access the network servers as required.

Diskless and floppy-only workstations are sometimes used, which retrieve all software and data from the server. Increasingly, "thin client" network computers (NCs) and Windows terminals are also used. A printer can be attached locally to a workstation or to a server and be shared by network users. Small LANs can allow certain workstations to function as a server, allowing users access to data on another user's machine. These peer-to-peer networks are often simpler to install and manage, but dedicated servers provide better performance and can handle higher transaction volume. Multiple servers are used in large networks.

MAC Address - MAC (Media Access Control) A MAC address is the hardware address of a device connected to a network.

MDI / MDI-X - Medium Dependent Interface - Also called an "uplink port," it is a port on a network hub or switch used to connect to other hubs or switches without requiring a crossover cable. The MDI port does not cross the transmit and receive lines, which is done by the regular ports (MDI-X ports) that connect to end stations. The MDI port connects to the MDI-X port on



the other device. There are typically one or two ports on a device that can be toggled between MDI (not crossed) and MDI-X (crossed).

Medium Dependent Interface – X (crossed) - A port on a network hub or switch that crosses the transmit lines coming in to the receive lines going out.

NAT – (Network Address Translation) This process allows all of the computers on your home network to use one IP address. The NAT capability of the Barricade, allows you to access the Internet from any computer on your home network without having to purchase more IP addresses from your ISP. Network Address Translation can be used to give multiple users access to the Internet with a single user account, or to map the local address for an IP server (such as Web or FTP) to a public address. This secures your network from direct attack by hackers, and provides more flexible management by allowing you to change internal IP addresses without affecting outside access to your network. NAT must be enabled to provide multi-user access to the Internet or to use the Virtual Server function.

Packet Binary Convolutional Code(tm) (PBCC) - A modulation technique developed by Texas Instruments Inc. (TI) that offers data rates of up to 22Mbit/s and is fully backward compatible with existing 802.11b wireless networks.

PCI - Peripheral Component Interconnect - Local bus for PCs from Intel that provides a high-speed data path between the CPU and up to 10 peripherals (video, disk, network, etc.). The PCI bus runs at 33MHz, supports 32-bit and 64-bit data paths, and bus mastering.

PPPoE - Point-to-Point Protocol over Ethernet. Point-to-Point Protocol is a method of secure data transmission originally created for dial-up connections. PPPoE is for Ethernet connections.

Roaming - A function that allows your to move through a particular domain without losing network connectivity.

Static IP - If your Service Provider has assigned a fixed IP address; enter the assigned IP address, subnet mask and the gateway address provided by your service provider.

Subnet Mask - A subnet mask, which may be a part of the TCP/IP information provided by your ISP, is a set of four numbers configured like an IP address. It is used to create IP address numbers used only within a particular network (as opposed to valid IP address numbers recognized by the Internet).

TCP/IP - Transmission Control Protocol/Internet Protocol. This is the standard protocol for data transmission over the Internet.

TCP - Transmission Control Protocol - TCP and UDP (User Datagram Protocol) are the two transport protocols in TCP/IP. TCP ensures that a message is sent accurately and in its entirety. However, for real-time voice and video, there is really no time or reason to correct errors, and UDP is used instead.

UDP - User Datagram Protocol - A protocol within the TCP/IP protocol suite that is used in place of TCP when a reliable delivery is not required. For example, UDP is used for real-time audio and video traffic where lost packets are simply ignored, because there is no time to retransmit. If UDP is used and a reliable delivery is required, packet sequence checking and error notification must be written into the applications.

## **FOR TECHNICAL SUPPORT, CALL:**

From U.S.A. and Canada (24 hours a day, 7 days a week)

(800) SMC-4-YOU; Phn: (949) 679-8000; Fax: (949) 679-1481

From Europe (8:00 AM - 5:30 PM UK Time)

44 (0) 118 974 8700; Fax: 44 (0) 118 974 8701

## **INTERNET**

### **E-mail addresses:**

techsupport@smc.com

european.techsupport@smc-europe.com

### **Driver updates:**

[http://www.smc.com/index.cfm?action=tech\\_support\\_drivers\\_downloads](http://www.smc.com/index.cfm?action=tech_support_drivers_downloads)

### **World Wide Web:**

<http://www.smc.com/>

<http://www.smc-europe.com/>

## **For Literature or Advertising Response, Call:**

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France:	33 (0) 41 38 32 32	Fax 33 (0) 41 38 01 58
Italy:	39 02 739 12 33	Fax 39 02 739 14 17
Benelux:	31 33 455 72 88	Fax 31 33 455 73 30
Central Europe:	49 (0) 89 92861-0	Fax 49 (0) 89 92861-230
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Nordic:	46 (0) 868 70700	Fax 46 (0) 887 62 62
Northern Europe:	44 (0) 118 974 8700	Fax 44 (0) 118 974 8701
Eastern Europe:	34 -93-477-4920	Fax 34 93 477 3774
Sub Saharan Africa:	27-11 314 1133	Fax 27-11 314 9133
North Africa:	34 93 477 4920	Fax 34 93 477 3774
Russia:	7 (095) 290 29 96	Fax 7 (095) 290 29 96
PRC:	86-10-6235-4958	Fax 86-10-6235-4962
Taiwan:	886-2-2659-9669	Fax 886-2-2659-9666
Asia Pacific:	(65) 238 6556	Fax (65) 238 6466
Korea:	82-2-553-0860	Fax 82-2-553-7202
Japan:	81-3-6545-5715	Fax 81-3-5645-5716
Australia:	61-2-8875-7887	Fax 61-2-8875-7777
India:	91-22-8204437	Fax 91-22-8204443

If you are looking for further contact information, please visit [www.smc.com](http://www.smc.com) or [www.smc-europe.com](http://www.smc-europe.com).

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Model Number: SMC2209USB/ETH