SMC
Networks

USER GUIDE

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, (for 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 Fructuós Gelabert 6-8, Planta 2,
08970 - Sant Joan Despí,
Barcelona, Spain.

This RF product complies with R&TTE Directive 99/5/EC (Annex IV) and 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. For the evaluation of the compliance with these Directives, the following standards were applied:
• Electromagnetic compatibility and radio spectrum matters (ERM) EN300 328-1 (2001-12) and EN300 328-2 (2001-12)
• Electromagnetic Compatibility (EMC) Standard for radio equipment and services EN301 489-1 and EN301 489-17
• Safety Test EN60950
• Immunity to conducted disturbances, Induced by radio-frequency fields EN 61000-4-6:1996 (0.15 - 80 MHz with 1 kHz AM 80% Modulation: 3 V/m)
• Power frequency magnetic field immunity test according to EN 61000-4-8:1993 (1 A/m at frequency 50 Hz)
• Voltage dips, short interruptions and voltage variations immunity test according to EN 61000-4-11:1994 (>95% Reduction @10ms, 30% Reduction @500 ms, >95% Reduction @5000 ms)
• LVD: EN 60950 (A1/1992; A2/1993; A3/1993; A4/1995; A11/1997)
• MDD: IEC 60601-1

Wichtige Sicherheitshinweise (Germany)

1. 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 Flüssig- oder 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.
12. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das

Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.

13. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.

14. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:

a. Netzkabel oder Netzstecker sind beschädigt.

b. Flüssigkeit ist in das Gerät eingedrungen.

c. Das Gerät war Feuchtigkeit ausgesetzt.

d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.

e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.

f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.

15. Stellen Sie sicher, daß die Stromversorgung dieses Gerätes nach der EN60950 geprüft ist. Ausgangswerte der Stromversorgung sollten die Werte von AC 7,5-8V, 50-60Hz nicht über- oder unterschreiten sowie den minimalen Strom von 1A nicht unterschreiten. Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70dB(A) oder weniger.

1| Package Contents

After unpacking the SMC2208USB/ETH, check the contents of the box to be sure you have received the following components:

- 1 SMC2208USB/ETH USB to 10/100Mbps Ethernet Adapter
- 1 EZ Installation Wizard and Documentation CD
- 1 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

2| Hardware Description

SMC's family of USB products offers a convenient and cost-effective means of bringing straightforward peripheral connectivity to the desktop based on the Universal Serial Bus (USB). These products feature true plug-and-play connection of PC peripherals "outside the box" and mark a significant advance in desktop cable management. Using the EZ Networking™ USB to Ethernet Converter you can simplify PC connections in the home, office, or on the road.

The SMC2208USB/ETH USB to 10/100 Mbps Ethernet adapter product supports   Plug-and-Play and is easy to install.   The included EZ Installation Wizard makes driver/utility installation a breeze.   The USB to 10/100 Mbps Ethernet Adapter is bus-powered, hence, it draws power from the USB port of the host PC and requires no external power supply.   Simply plug in this new SMC2208USB/ETH, which uses Type A USB port, to your Laptop/Desktop's USB port and connect a Category 5 cable to the RJ-45 connector.   You are now ready to connect and access network resources.

Features

- USB specification 1.0, and 1.1 for standards-based compliance to ensure compatibility
- EZ Installation Wizard
- Sleek, compact, and dongleless design
- USB bus self-powered
- Supports major operating systems

Benefits

- USB 1.0 and 1.1 supports 12Mbps high data rate performance
- EZ Installation Wizard ensures easy driver/utility installation
- Compact, easy to carry form factor;   solid all-in-one design with no moving parts to break
- Draws power from the USB port of the host PC and requires no external power supply
- Supports Windows 98/ME/2000/XP, Linux kernel v2.4 or later versions, Mac 9.X & 10.X.

Compatibility

- IEEE 802.3 Ethernet, IEEE 802.3u Fast Ethernet
- USB v1.0 and 1.1 Specification

3| Driver Installation on Windows 98/ME/2000/XP

NOTE: Installation processes such as this may require the use of your original, licensed copy of Windows.
Please have your Windows CD available BEFORE proceeding with the installation.

Windows 98

1. Make sure your PC is powered on and that you are running the Windows 98 operating system.

2. Insert the EZ Installation Wizard and Documentation CD.

3. Click the [Install Driver] button to continue.

4. Insert the SMC2208USB/ETH (the A-type connector) into the USB port on your PC. The system will
   display the "**Add New Hardware Wizard**" dialog box then click the "**Next**" button.

5. Select "**Search for the Best Driver for your device (Recommended)**", click the "**Next**" button.

6. Select "**CD-ROM drive**" and click the "**Next**" button.

7. After Windows finds the driver, click the "**Next**" button.

8. Windows may request you to "**Insert Windows 98 CD-ROM into the driver selected, and click OK**". Follow the instruction and insert CD-ROM or disks as needed, direct Windows to the proper location, and then click the "**OK**" button.

9. When Windows finishes the installation, click the "**Finish**" button.

10. System will ask you "**Do you want to restart your computer now**". Click the "**Yes**" button to restart your computer.

System Settings Change

To finish setting up your new hardware, you must restart your computer.

Do you want to restart your computer now?

[Yes] [No]

11. After restart your computer, connect RJ-45 cable to RJ-45 connector of USB to 10/100 Mbps Ethernet
Adapter. The network function is now ready.

Windows ME

1. Make sure your PC is powered on and that you are running the Windows ME operating system.

2. Insert the EZ Installation Wizard and Documentation CD.

3. Click the [Install Driver] button to continue.

4. Insert the SMC2208SUSB/ETH (the A-type connector) into the USB port on your PC. The system will display the "**Add New Hardware Wizard**" dialog box. Select "**Automatic search for a better driver (Recommended)**" and insert the driver CD and click the "**Next**" button.
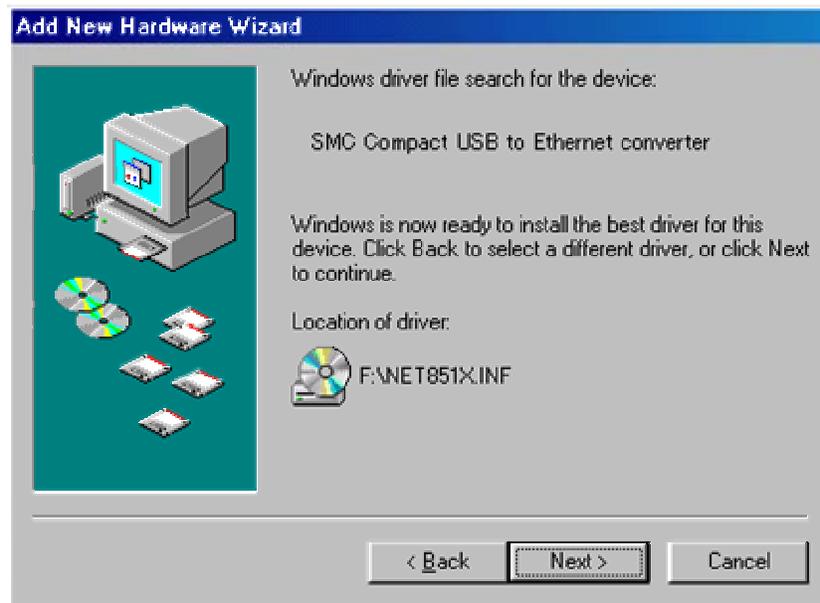
5. Windows ME will search and recognize the driver, and then Windows will automatically copy the driver files and related files into the system. After copying the driver files, the installation is completed.   Click the "**Finish**" button.

6. System will ask you "**Do you want to restart your computer now**". Click the "**Yes**" button to restart your computer.

7. After restart your computer, connect RJ-45 cable to RJ-45 connector of USB to 10/100 Mbps Ethernet Adapter.   The network function is now ready.

Windows 2000

1. Make sure your PC is powered on and that you are running the Windows 2000 operating system.

2. Insert the EZ Installation Wizard and Documentation CD.

3. Click the [Install Driver] button to continue.

4. Insert the SMC2208USB/ETH Ethernet Adapter (the A-type connector) into the USB port on your PC. The system will display the "**Found New Hardware Wizard**" dialog box. Insert the driver CD into CD-ROM drive and then click the "**Next**" button.

5. Select "**Search for a suitable driver for my device (Recommended)**" and click the "**Next**" button.

6. Select "**CD-ROM drive**" and click the "**Next**" button.

7. After Windows finds the driver, click the "**Next**" button.   The driver will then install itself.

Found New Hardware Wizard

Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.

The wizard found a driver for the following device:

SMC2208USB/ETH

Windows found a driver for this device. To install the driver Windows found, click Next.

f:\SMC2208.inf

[< Back]   [Next >]   [Cancel]

8. Click the "Yes" button.

Digital Signature Not Found

The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.

The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.

SMC Compact USB to Ethernet converter

If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.

Do you want to continue the installation?

[Yes]   [No]   [More Info]

9. When Windows finishes the installation, click the "**Finish**" button.

10. Connect RJ-45 cable to RJ-45 connector of USB to 10/100Mbps Ethernet Adapter.   The network
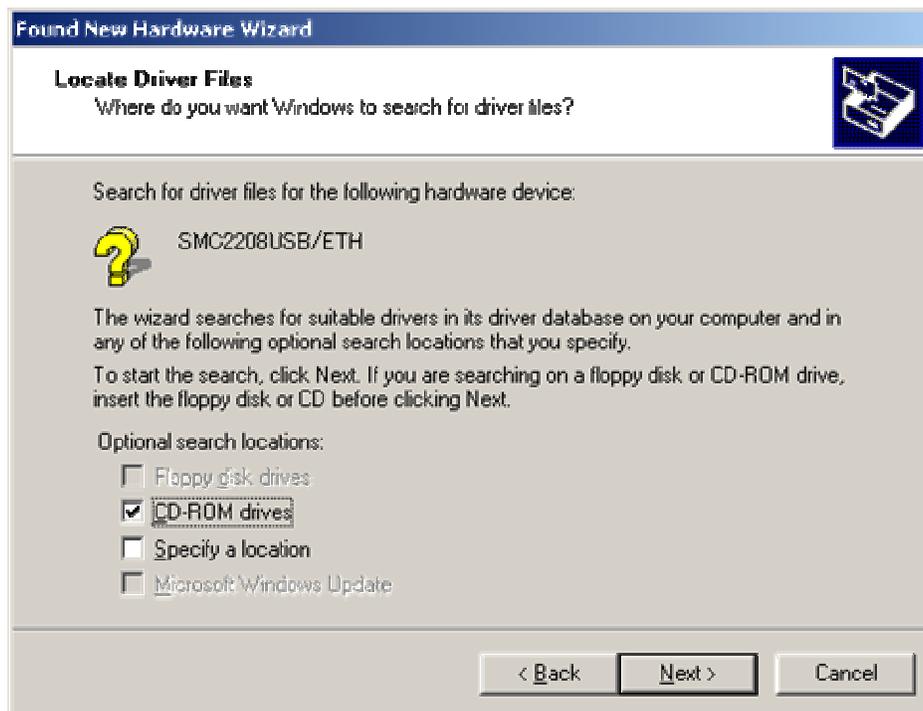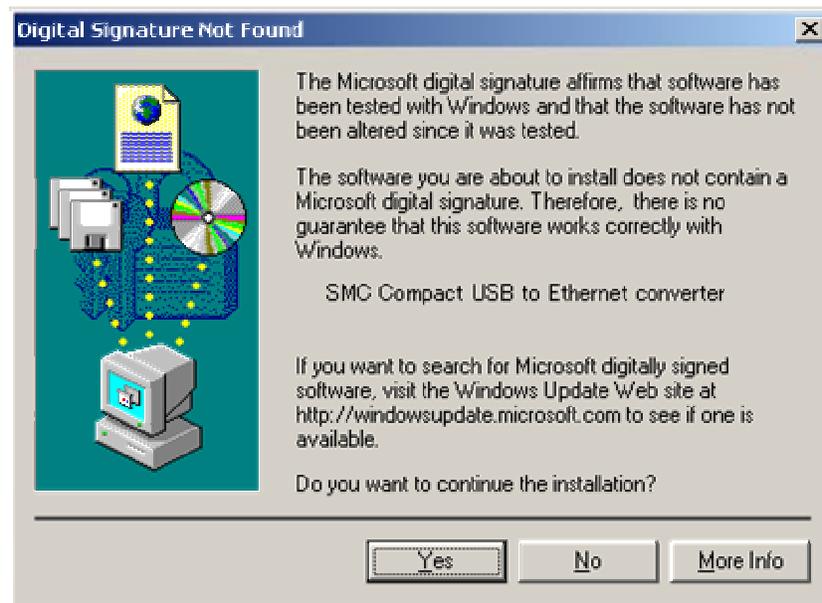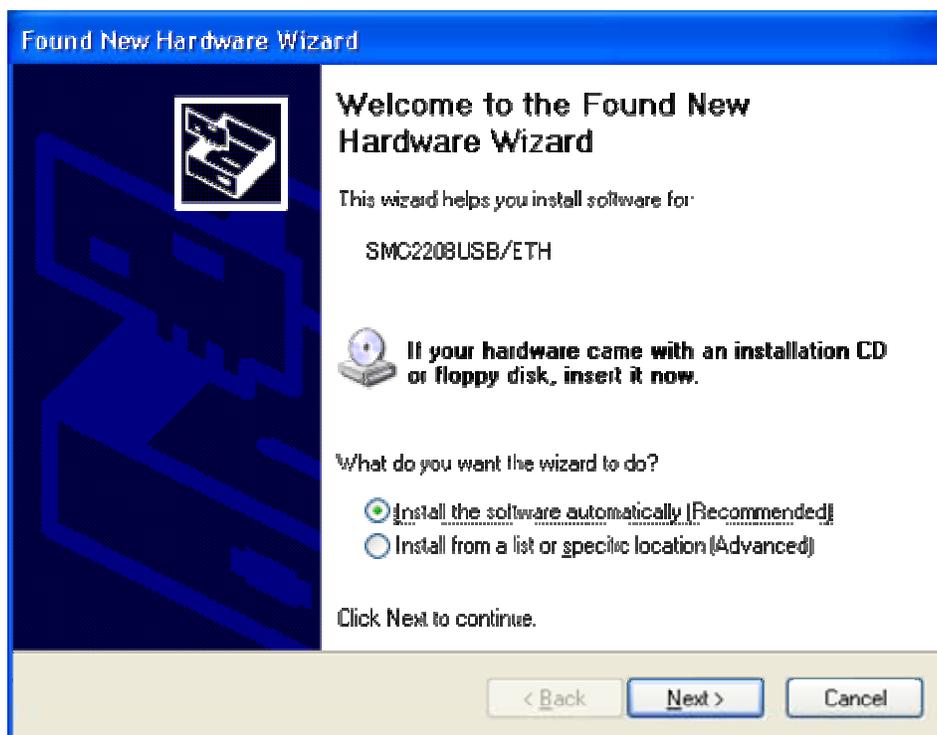   function is now ready.

Windows XP

1. Make sure your PC is powered on and that you are running the Windows XP operating system.

2. Insert the EZ Installation Wizard and Documentation CD.

3. Click the [Install Driver] button to continue.

4. Insert the SMC2208USB/ETH (the A-type connector) into the USB port on your PC. The system will display the "**Found New Hardware Wizard**" dialog box. Select "**Install the software automatically (Recommended)**" and insert the driver CD and click the "**Next**" button.

5. Windows XP will search and recognize the driver.   Windows will automatically copy the driver files and related files into the system. After copying the driver files, the installation is completed.   Click the "**Finish**" button.

6. Connect RJ-45 cable to RJ-45 connector of USB to 10/100Mbps Ethernet Adapter. The network function is now ready.

4| Driver Installation on Mac OS

There are two ways to install Driver on Mac OS. First, select the"ADM8513 Driver for Mac OS" folder, and double click the"Installer" icon. Second, follow the steps below.

<u>**Install**</u>

1. On Mac OS9, uncompress the **ADM8513_Install_xx_xxxx.sit** file

2. Double click the "**ADM8513Install**" file.

3. Select Custom Install and double click "**Install**" icon.

4. Reset the computer when install successfully.

5. When reset is finished, plug in the USB device.

6. From TCP/IP table, select the active USB device, and then save change.

7. Re-enter the USB device in the TCP/IP table to check DHCP.

<u>**Uninstall**</u>

(If the USB device is in use, follow step 1. If not, jump to step 2)
1. Unplug the USB device and then reset the computer.   Wait for the reset to finish.

2. Double click the "**ADM8513Install**".

3. Select Custom Remove, and then pick **ADMUSB 1.00**

4. Double click the Remove icon.

5| Troubleshooting

Q1. When I plug in my SMC2208USB/ETH USB to 10/100Mbps Ethernet Adapter, there is no LED indicator signal.

A: If your SMC2208USB/ETH doesn't have any LED signal, you need to check if the USB cable is connected to the PC's USB port, or if the Ethernet cable is connected to the network.

Q2. Currently a USB device is used on my USB port. Can I use the SMC2208USB/ETH USB to 10/100 Mbps Ethernet adapter simultaneously?

A: Yes, you can connect up to 127 devices to run simultaneously on one computer. If you have only one USB port on your computer, you will need to use an USB HUB device, which will provide you with additional USB ports.

Q3. Do I need to connect an external power supply to the SMC2208USB/ETH USB 10/100Mbps Ethernet adapter?

A: No, It is a self-bus power device. There is no need to connect external power supply.

6| Specifications

Interfaces

- Complies with USB specification v1.0 and v1.1
- One 4-pin A-type USB connector
- One RJ-45 connector for Ethernet network interface

Standards

- USB Specification 1.0 and 1.1
- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet

Access Method

- USB Port: USB spec.1.0 and 1.1
- RJ-45 Port: IEEE 802.3 and 802.3u CSMA/CD
- 10 and 100 Mbps full and half duplex

Power Consumption

- 10Mbps mode: Max 143mA @5V
- 100Mbps mode: Max 150mA @5V

LED Indication

- **10/100:** ON in 100 Mbps mode, OFF in 10 Mbps mode.
- **F/H:** ON in full duplex mode, OFF otherwise.
- **ACTIVE:** ON when 10 or 100Mbps Ethernet traffic is Active

Drivers support

- Windows 98
- Windows ME
- Windows 2000
- Windows XP
- Linux kernel v2.4 or later versions
- Mac 9.X
- Mac 10.X

Compliances

- FCC part 15 class B
- CE(CISPR22 class B)

Environment

- Operating Temperature: 0 ~ 55 C
  - Humidity: 10 ~ 90%
- Storage Temperature   -20 ~ 65 C
  - Humidity   10 ~ 90%

Size

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

Weight

- .25oz

FOR TECHNICAL SUPPORT, CALL:
From U.S.A. and Canada (24 hours a day, 7 days a week)
  (800) SMC-4-YOU; Phn: (949) 679-8000; Fax: (949) 679-1481
From Europe : Contact details can be found on
  www.smc-europe.com or www.smc.com

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

World Wide Web:
  http://www.smc.com/
  http://www.smc-europe.com/

For Literature or Advertising Response, Call:

U.S.A. and Canada:	(800) SMC-4-YOU	Fax (949) 679-1481
Spain:	34-91-352-00-40	Fax 34-93-477-3774
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Italy:	39 (0) 3355708602	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
Nordic:	46 (0) 868 70700	Fax 46 (0) 887 62 62
Eastern Europe:	34 -93-477-4920	Fax 34 93 477 3774
Sub Saharan Africa:	216-712-36616	Fax 216-71751415
North West Africa:	34 93 477 4920	Fax 34 93 477 3774
CIS:	7 (095) 7893573	Fax 7 (095) 789 357
PRC:	86-10-6235-4958	Fax 86-10-6235-4962
Taiwan:	886-2-87978006	Fax 886-2-87976288
Asia Pacific:	(65) 238 6556	Fax (65) 238 6466
Korea:	82-2-553-0860	Fax 82-2-553-7202
Japan:	81-45-224-2332	Fax 81-45-224-2331
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 or www.smc-europe.com.

Model Number: SMC2208USB/ETH

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