

SMCHPID-ETH EZ-Connect[™] I4Mbps Powerline to Ethernet Adapter



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CHAPTER 1 | Introduction

Congratulations on your purchase of an EZ Connect[™] Powerline to Ethernet Desktop Adapter (SMCHP1D-ETH). SMC is proud to provide you with a powerful yet simple communication device for creating a Powerline network that to extend the range of your wired or wireless network.

Features and Benefits

- EZ Configuration Utility Works on both Windows and Mac based PCs
- Plug and Play installation works out of the box
- Extends the range of your wired or wireless network
- Save time and money by using existing home wiring no need to run expensive CAT-5 cabling
- Ideal solution for connecting your Game Console system to the Internet to play online games

Package Contents

Before installing the EZ Connect[™] Powerline to Ethernet Desktop Adapter, verify that you have the items listed under "Package Contents." Also be sure that you have the necessary cabling. If any of the items are missing or damaged, contact your local SMC distributor.

- EZ Connect[™] Powerline to Ethernet Desktop Adapter
- Powerline Cord
- One CAT-5 Ethernet cable
- CD with User Guide and EZ Configuration Utility
- Quick Installation Guide

If possible, retain the carton and original packing materials in case there is a need to return the product.

Minimum Requirements

- An Ethernet-enabled device, such as a PC or game console system.
- Windows or Mac-based PC to use the EZ Configuration Utility
- CD-ROM*

Note: A CD-ROM drive is only required if you want to install the EZ Configuration Utility from EZ Install CD. This utility can also be downloaded from <u>www.smc.com</u>

CHAPTER 2 | Getting to Know the Powerline Adapter

The SMCHP1D-ETH EZ Connect Powerline to Ethernet Desktop Adapter is the perfect solution for the home/office environment. This Powerline Adapter offers:

- 1 RJ-45 Ethernet Connection (LAN)
- 1 Powerline Connecter
- LEDs for network status and troubleshooting

Note: You will need at least two SMC Powerline devices to create a Powerline network.



LED Indicators

The Barricade includes LED indicators on the front panel that simplify installation and network troubleshooting.

LED	Label	Color	Activity
Power	PWR	Green	Solid LED indicates that the unit is powered on No LED light indicates the unit is powered off
HomePlug	HP	Green	Solid LED indicates that a Powerline signal is detected Blinking LED indicates traffic is being transmitted No LED light indicates no Powerline signal is not detected
Ethernet	ETH	Green	Solid LED indicates a good Ethernet connection is detected Blinking LED indicates traffic is being transmitted No LED light indicates an Ethernet connection is not detected

Resetting the Powerline Adapter

To reset the SMC EZ Connect Powerline Adapter you will need to use the EZ Configuration Utility to reset the password to the default setting of [HomePlug].

CHAPTER 3 | Getting Connected

The EZ Connect Powerline to Ethernet Adapter is connected between the Ethernet port on your PC and the Powerline Network. The Powerline network is automatically created once you plug in the first Powerline Device.



Basic Installation Procedure

1. CONNECT the LAN

Connect an Ethernet cable from your PC to the Powerline to Ethernet Adapters RJ-45 LAN port on the back on the device.

2. CONNECT the Powerline

Run the included Power cord from the Powerline connector on the Adapter to an available power outlet in your home.

Note: For best performance, connect device directly to wall outlet. Do not connect to surge protector power bar.

CHAPTER 4 | Installing EZ Configuration Utility

Windows 98SE/Me/2000/XP

The screen shots were taken on a Windows 2000 machines, but the same steps apply will apply for Windows 98SE, Me, and XP.

To access the User Guide and install the EZ Configuration Utility just insert the CD into your CD-ROM drive and the Auto-run splash screen will appear:



Note: If the CD does not Auto-Run you can click on your CD-ROM drive and double mouse-click on the [SMCHP1D-ETH.exe] icon to launch this splash screen.

If you are using a Mac then please open the OSX or OS9 folder on the SMC EZ Install CD to access the EZ Configuration Utility for those operating systems.

To install the utility, follow the steps below:

- 1. Click on the [Install EZ Configuration Utility] option on the splash screen (shown above)
- 2. On the SMC Logo screen, click the [Next] button to start.
- 3. Click the [Next] button again.

SMC EZ Configuration	Utility 1.0 - InstallShield Wizard	X
1944	Welcome to the InstallShield Wizard for SMC EZ Configuration Utility 1.0	
	The InstallShield(R) Wizard will install SMC EZ Configuration Utility 1.0 on your computer. To continue, click Next.	
SINC Networks	WARNING: This program is protected by copyright law and international treaties.	
	< <u>B</u> ack <u>Next</u> > Cancel	

4. Accept the License Agreement, and click the [Next] button to continue.

🔂 SMC EZ Configuration Utility 1.0 - In	stallShield Wiza	ard	×		
License Agreement Please read the following license agreen	nent carefully.		SMC Networks		
			<u> </u>		
SMC EZ HomePlug Configuration I	Manager 1.0 Softv	vare License Agre	eement		
This Agreement sets forth the terms and conditions under which the software known as SMC EZ HomePlug Configuration Manager 1.0.					
 SMC maintains all rights, title and interest in and to SMC EZ HomePlug Configuration Manager 0, including all applicable copyrights, trade secrets, patents and other intellectual rights therein. 					
• I accept the terms in the license agreem	ent				
O I do not accept the terms in the license agreement					
InstallShield					
	< <u>B</u> ack	<u>N</u> ext >	Cancel		

- 5. Enter in the Username and Organization information and set access rights, then click the [Next] button to continue.
- 6. Confirm the installation location, and then click the [Next] button to continue. Default install location is: C:/Program Files/SMC.

🙀 SMC EZ Configuration Utility 1.0 - InstallShield Wizard	×
Destination Folder Click on Change if you wish to install to a different folder.	SMC Networks
Install SMC EZ Configuration Utility 1.0 to: C:\Program Files\SMC\	<u>C</u> hange
InstallShield	Cancel

Note: You can change the installation location by clicking the [Change...] button.

- 7. Confirm the Installation information. Then click the [Install] button to begin the process.
- 8. To complete the Installation click the [Finish] button.

🙀 SMC EZ Configuration Utility 1.0 - InstallShield Wizard					
Insta	allShield Wizard Completed				
	stallShield Wizard has successfully installed SMC EZ uration Utility 1.0. Click Finish to exit the wizard.				
	< Back Einish Cancel				

9. When finished, you must restart your computer to finalize the installation. Click the [Yes] button to reboot your PC.



When you computer finishing restarting, the installation is complete and you can now use this utility to configure your Powerline network.

CHAPTER 5 | Using the EZ Configuration Utility

To access the EZ Configuration Utility, follow the steps below:

- 1. Click on the [Start] button
- 2. Choose [Programs]
- 3. Select the [SMC EZ HomePlug Configuration Manager 1.0] folder, and then click on the [SMC EZ HomePlug Configuration Manager 1.0] icon.

Note: Before you run this utility please make sure that you have a SMC Powerline device connected directly to the PC.

The SMC EZ Configuration Utility window is shown below. With this utility you can configure and manage all of your SMC Powerline devices.

	SMC EZ Configuration Utility 1.0	
This section will show the available Powerline devices on your network	Device List Device List Rate (Mbps) SMCHP1D-ETH SMCHP1D-ETH 11.6	
The [Add Device] button allows you to add remote Powerline devices.	SMCHP1D-ETH Properties Password Not Required Address 00-90-47-05-F1-79 State Connected (Local Ethernet Access)	<u>R</u> ename Delete
The [Network Password] button	Add Device <u>N</u> etwork Password <u>D</u> iagnostics	Close
	The [Diagnostics] button launches the built- in utility to troubleshoot your Powerline network	



CHAPTER 6 | Understanding the Information in the SMC EZ Configuration Utility

When you launch the EZ Configuration utility it will automatically scan your Powerline network for all the available Powerline adapters. If a new Powerline device is added to your network it will automatically show up in the utility.

Device List

The Powerline adapters are displayed in the [Device List] window. The default device name is the Model number of the Powerline adapter.

There will be two types of devices displayed in your device list:

Local Device	This is the Powerline device that is connected to the PC that you are using or if you are connect to a router and the Powerline device is connected to. The local device will not have a Rate associated to it or require you to enter a device password to change the Network Password.
Remote Device	These are Powerline adapters that are connected to other devices in your house, such as a PC. These devices will show you the Rate they are linked up at. If you wish to change the Network Password on these units, then you will have to enter the Device Password.

🎢 SMC EZ Configuration Util	ity 1.0	_ 🗆 🗙		SMC EZ Configuration Utili	ty 1.0	_ 🗆 🗙
Device List			C)evice List		
Device Name	Rate (Mbps)			Device Name	Rate (Mbps)	
Office Connection				Office Connection		
SMCHP1D-ETH	12.4			SMCHP1D-ETH	12.4	
Office Connection Properties				-SMCHP1D-ETH Properties		
Password Not Required				Password HUHWIUIQWFTC	2	
Address 00-90-47-05-F1-79	9	<u>R</u> ename		Address 00-90-47-05-ED-9	1	<u>R</u> ename
State Connected (Local	Ethernet Access)	Delete		State Connected (Powe	rline Access)	Delete
Add Device				Add Device		
Network Password	Diagnostics	Close		Network Password	Diagnostics	Close

Local Device

Remote Device

Device Names

The SMC EZ Configuration Utility allows you to change the name of your Powerline devices to make them easier to manage. For example, if you have 4 Powerline adapters in your house, you can give them a name that represents there locations.

To change the Device Name, highlight the Powerline adapter in your Device list and click on the [Rename] button or right mouse-click on the Device icon and select [Rename]

Delete Devices

You can also delete devices from the EZ Configuration Utility. To do this, simply highlight the Powerline adapter in your Device List and click on the [Delete] button or right mouse-click on the Device icon and select [Delete]

For more information on the other EZ Configuration Utility features, see the sections outlined below.

CHAPTER 7 | Add a Powerline Device

The [Add Device] button is used to add a Powerline device to the EZ Configuration Utility before you connect the hardware to your network.

When you click the [Add Device] button, the dialog box below will be displayed:

Add Device	×
	e, enter the Device Password and press Add. I is located on the device or its packaging.
Device Password	Add
Network Password	HomePlug
	Done

To add a Powerline device to your network, you will need to enter in the Device Password. The Device password is listed on the lablel on the back of your Powerline device. On the SMCHP1D-ETH and SMCHP1D-USB the Device Password is listed as [DEK: XXXXXXXXXXX].

Note: DEK stands for "Device Encryption Key"

Once you have added the Powerline hardware to the EZ Configuration Utility, then you can connect the actual unit in the remote location where it is needed to extend your network connection over the Powerline network.

By using this feature you can easily setup a Powerline network with the EZ Configuration Utility and setup and manage the network very efficiently.

CHAPTER 8 | Setting a Network Password

When you click the [Network Password] button the Network Password wizard will launch. This wizard is used to change the Security Key for all the devices configured with the EZ Configuration Manger. Before then remote Powerline device's security/network password can be changed with this wizard, the Device Password must be configured in the utility.

1. Click the [Next] button to start the wizard.

etwork Password			
Set Powerline Network Password Wizard			
This wizard allows you to change the Network Password used by all devices on your Powerline network.			
Before running the wizard, check that all devices are properly connected to AC outlets.			
Please press Next to begin.			
< Back Next > Cancel			

2. Set the Network Password that you want to use. The default network password is "HomePlug"

Network Password	×			
Change the Network Password by entering a new one in the edit box Press Next to set the Network Password of all devices in the Device List.				
Network <u>Password</u>				
< Back Next > Cancel				

Note: It is highly recommended that you change this password from the default setting.

3. This wizard will configure Network Passwords for the local adapter, as well as the remote adapters in your Powerline network.

Network Password	×
Operation complete. All devices updated.	
Setting password for device 'SMCHP1D-ETH' Password successfully changed. Setting password for device 'SMCHP1D-ETH' Password successfully changed.	
_	
< Back Next > Finish	

Note: You can only set passwords for remote Powerline devices if you have the Device Password (DEK) configured in the SMC EZ Configuration Utility. For information on how to do this, please refer to the previous section.

4. When the wizard has completed, click the [Finish] button to return to the EZ Configuration Utility.

CHAPTER 9 | Running the Diagnostic Wizard

The SMC EZ Configuration Utility has a built-in diagnostic tool to help you trouble shoot your Powerline network. To access this tool and detailed report, follow the steps outlined below:

1. After you click the [Diagnostics] button on the default utility page, the Powerline Diagnostics Wizard will launch. To start the wizard, click the [Next] button.

Powerline Diagnostics	×		
Powerline Connection Diagnostics Wizard			
This wizard performs diagnostics on Powerline devices attached directly this PC and any devices accessible via the power line.			
Before running the diagnostics, check that all devices are properly connected. It is very important that devices be directly connected to AC outlets and not to a power bar.			
Please press Next to begin.			
< Back Cancel	1		
	-		

2. This utility will scan your whole Powerline network

Powerline Diagnostics	×
Process responses from remote devices and hosts	
Gathering host system information Verifying local device configuration and performance Building link quality table Building bridging information table Creating diagnostic summary	
< <u>B</u> ack <u>N</u> ext > Cancel	

3. When the scan has completed, click the [Next] button to view the report summary.



4. The report summary will tell you in there is anything wrong with your Powerline network. To access a complete report click the [Detail Report...] button.

Powerline Diagnostics	×
Diagnostic Summary Report	<u>^</u>
No problems encountered with the powerline network.	
	_
	<u>D</u> etail Report
< <u>B</u> ack <u>N</u> ext >	Finish

If you don't want to review the details, click the [Finish] button to return to the main utility screen.

CHAPTER 10 | Understand the Diagnostic Report

The SMC Diagnostic report is exported to a text file called [DiagnoticDetails.txt]. You can use this report to review the details of your Powerline network and get help resolving connectivity issues.

Thu Dec 18 21:12:01 2003									
SMC EZ Confi	guration	Utility 1.0 Re	port						
>>> Host Inf	ormation								
Library Path Library Vers Driver Path Driver Versi	V1.05.02 XXXXXXXX Windows : C:\F ion: V5.0 : C:\F on : V5.0	2.00 (XX 2000 V5.0 Buil Program Files\S 03.16.5401 Program Files\S	MC∖HomeP MC\HomeP	lug\cstd	IPD5.SYS				
>>> Host Net	work Conr	nections							
Name	Status	Adapter Ado	lress :	IP Addre	ss 		net Mask		
SMC1255T×	Connecte	ed 00-04-E2-64	-C1-1E :	192.168.	2.103	255.	255.255.0		
>>> Powerlin	e devices	;							
Name	Devi	ice Address	Interfa	ce	Status		Manufacturer		Product
	00-9	90-47-05-F1-79 90-47-05-ED-91	Local E1 Remote	thernet	Connecte Connecte	d	SMC SMC		HP1D-ETH HP1D-ETH
>>> Network	Key Misma	atch Test: Pass	ed (no k	ey misma	tch detec	ted)			
>>> Local De	vice 'SMC	HP1D-ETH' Conf	iguratio	n					
Firmware Ver HomePlug MAC	pe :L sion :C /PHY :C	.ocal Ethernet S110× MAC-1-1-		-2003050	7-XXXRC4				
>>> Link Qua	lity Summ	1ary Table							
Source Devic	e	Destinati	on Devic	e	PHY Rate	(Mb	ops)		
SMCHP1D-ETH	-	SMCHP1D-E	тн	-	13.4				
SMCHP1D-ETH		SMCHP1D-E	тн		11.2				
>>> Bridge I	nformatic	on Summary Tabl	e						
Device Name		Device Ac	ldress	Bridge	d Address		IP Address		
SMCHP1D-ETH		00-90-47-		00-30- 00-20- 00-04- 00-70-	 1B-11-34- E0-88-DB- E2-64-C1- 46-00-00- 95-D8-A7-	86 AA 1E 01	192.168.2.101 UNKNOWN 192.168.2.103 192.168.2.1 UNKNOWN	(user)	
SMCHP1D-ETH		00-90-47-	05-ED-91	None			UNKNOWN		
Diagnostic S	-	port	nowerli	na natwo					

No problems encountered with the powerline network.

This report has eight sections, which are listed below:

- Host Information
- Host Network Connections
- Powerline Devices
- Network Key Mismatch Test
- Local Device Configuration
- Link Quality Summary Table
- Bridge Information Summary Table
- Diagnostic Summary Report

Host Information

This section provides information about SMC EZ Configuration Utility and the PC you are running the utility on.

>>> Host Information

App Name : ConnectMan.exe App Version: V1.05.02.00 Host Name : xxxxxxxx OS Platform: Windows 2000 V5.0 Build 2195 Library Path : C:\Program Files\SMC\HomePlug\CSTDI.dll Library Version: V5.03.16.5401 Driver Path : C:\Program Files\SMC\HomePlug\CSTDIPD5.SYS Driver Version : V5.03.16.54 Image Path : \??\C:\PROGRA-1\SMC\HomePlug\CSTDIPD5.SYS

Host Network Connections

This section will outline the model name, if you are connected, the MAC Address, IP Address, and Subnet Mask for the Network Adapter installed on your PC.

>>> Host Net	work Connec	tions		
Name	Status	Adapter Address	IP Address	Subnet Mask
 SMC1255T×	Connected	00-04-E2-64-C1-1E	192.168.2.103	255.255.255.0

Powerline Devices

This section lists out the Powerline devices on your network. In this section on the diagnostic report you will get the Device Name, Device Address (MAC Address), Interface, Status, Manufacture, and Product (Model) of your Powerline device.

This section is useful to check the status of all your Powerline devices to insure they are connected and operating correctly.

>>> Powerline devices

Name	Device Address	Interface	Status	Manufacturer	Product
 SMCHP1D-ETH SMCHP1D-ETH	00-90-47-05-F1-79 00-90-47-05-ED-91	Local Ethernet Remote	Connected Connected	SMC SMC	HP1D-ETH HP1D-ETH

Network Key Mismatch Test

This section will display the results of the Network Key test. This test will check to confirm if each Powerline device on network has the same encryption key.

Positive Results - Network is configured correctly. >>> Network Key Mismatch Test: Passed (no key mismatch detected).

Negative Results - Power network is not configured correctly. Please refer to the summary section at the bottom of the Diagnostic Report to see which device has the wrong password.

>>> Network Key Mismatch Test: Fail. (multiple network keys detected).

Local Device '[Model]' Configuration

This section will outline the hardware information about the local Powerline Device. The local Powerline device is typically the one connected directly to the PC the utility is used on. However, if you have a Powerline device connected to one of the LAN ports on your router, and the PC is connected to the Router via a wired or wireless connection, it will show the Powerline device connected to the Router as your local device.

>>> Local Device 'SMCHP1D-ETH' Configuration Network Connection: SMC1255TX Interface Type : Local Ethernet Firmware Version : CS110X_MAC-1-1-1-4-OFFC-20030507-XXXRC4

: 1610.0 fps (ок)

Link Quality Summary Table

Loopback Rate

In this section it the link quality for each Powerline device on your network is listed. To improve your PHY Rate, plug the Powerline adapter into another power outlet in your house.

>>> Link Quality Summary Table

HomePlug MAC/PHY : CS110200

Source Device	Destination Device	PHY Rate (Mbps)
SMCHP1D-ETH	SMCHP1D-ETH	 13.4
SMCHP1D-ETH	SMCHP1D-ETH	11.2

Bridge Information Summary Table

In this section it you will get a complete summary of your Powerline network. The reason the first Powerline Device shown below has 5 Bridged Addresses listed is because this Powerline device is connected to the LAN port of a Barricade Router.

>>> Bridge Information Summary Table

Device Name	Device Address	Bridged Address	IP Address
SMCHP1D-ETH	00-90-47-05-F1-79	00-30-18-11-34-86 00-20-E0-88-DB-AA 00-04-E2-64-C1-1E 00-70-46-00-00-01 00-07-95-D8-A7-AA	UNKNOWN 192.168.2.103 (user) 192.168.2.1
SMCHP1D-ETH	00-90-47-05-ED-91	None	UNKNOWN

Diagnostic Summary Report

This section of the diagnostic report will outline any steps required to fix a connectivity issue. For example, if you fail the **Network Key Mismatch Test**, this section will provide an explanation of the issue, display which device has the wrong password, and provide a method to resolve this issue.

Diagnostic Summary Report

>>> Multiple keys detected.

At least one device connected to the powerline is using a Network Password that is different than the Network Password used by the local adapter.

Use the Network Manager 'Add Device' function to set the Network Password of all new devices connected to the powerline.

>>> Device 'SMCHP1D-ETH' is using a different Network Password.

Use the Network Manager 'Network Password' function to set the correct Network Password for this device.

Appendix A - Product Specification

Below is an outline of the Technical Specifications for the EZ Connect Powerline to Ethernet Desktop Adapter (SMCHP1D-ETH)

Standards: HomePlug v1.01 compatible IEEE 802.3 10BASE-T Ethernet

Interface: RJ-45 (10BASE-T Ethernet) Electrical plug (Powerline)

LEDs: Power (PWR) HomePlug LINK/ACT (HP) Ethernet (ETH)

Power Input: 100-240VAC @ 50~60Hz (internal) 0.15A

Security: 56-bit Data Encryption (DES) with Dynamic Key Management

Protocols: Forward Error Correction (FEC) Automatic Channel Adaptation

Software: Device Detect/Diagnostic DEK Password Setup for Local and Remote Device Supports Windows 98SE, 2000, Me, NT, XP Mac OS 9.x and OS X 10.1.x **Operating Temperature:** 32°F to 104°F (0°C to 40°C)

Operating Humidity: 10% to 90% Non-Condensing

Frequency: 4.3 MHZ - 20.9 MHZ

Modulation: OFDM Symbol Modulation,

Modulation Schemes: DQPSK, DBPSK, ROBO Carrier Modulation

Dimensions: 3.05 x 4.53 x .98 in (77.5 x 115 x 25mm)

Weight: 4.59oz (130g)

Certifications: FCC Part 15 Class B CE U/L Certified

Warranty: Limited Lifetime

Appendix B - Compliances

FCC 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 or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE: FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters (8 inches) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Appendix C - Technical Support

PHONE

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

- (800) SMC-4-YOU
- (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

Product Downloads:

• http://www.smc.com/

World Wide Web:

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

U.S.A. and Canada:	(800) SMC-4-YOU	Fax (949) 679-1481
Spain:	34-93-477-4935	Fax 34-93-477-3774
UK:	44 (0) 118 974 8700	Fax 44 (0) 118 974 8701
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
Switzerland:	41 (0) 1 9409971	Fax 41 (0) 1 9409972
Nordic:	46 (O) 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:	81-3-5645-5715	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 other contact information, please visit www.smc.com

