

**EZ Connect[™] 2.4 GHz Wireless
Ethernet Adapter**

User Guide

SMC2671W



EZ Connect™ 2.4 GHz Wireless Ethernet Adapter User Guide

From SMC's EZ line of low-cost workgroup LAN solutions

SMC®

Networks

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* SMC will provide warranty service for one year following discontinuance from the active SMC price list. Under the limited lifetime warranty, internal and external power supplies, fans, and cables are covered by a standard one-year warranty from date of purchase.

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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.

IMPORTANT NOTE: FCC Radiation Exposure 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 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.

Industry Canada - Class B

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par le ministère des Communications.

EC Conformance Declaration - Class B

SMC contact for these products in Europe is:

SMC Networks Europe,
Edificio Conata II,
Calle Fructuós Gelabert 6-8, 2^o, 4^a,
08970 - Sant Joan Despí,
Barcelona, Spain.

This information technology equipment complies with the requirements of the Council Directive 89/336/EEC on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility and 73/23/EEC for electrical equipment used within certain voltage limits and the Amendment Directive 93/68/EEC. For the evaluation of the compliance with these Directives, the following standards were applied:

- RFI Emission: * Limit class B according to EN 55022:1998
- * Limit class A for harmonic current emission according to EN 61000-3-2/1995
 - * Limitation of voltage fluctuation and flicker in low-voltage supply system according to EN 61000-3-3/1995
- Immunity: * Product family standard according to EN 55024:1998
- * Electrostatic Discharge according to EN 61000-4-2:1995 (Contact Discharge: ± 4 kV, Air Discharge: ± 8 kV)
 - * Radio-frequency electromagnetic field according to EN 61000-4-3:1996 (80 - 1000MHz with 1kHz AM 80% Modulation: 3V/m)
 - * Electrical fast transient/burst according to EN 61000-4-4:1995(AC/DC power supply: ± 1 kV, Data/Signal lines: ± 0.5 kV)
 - * Surge immunity test according to EN 61000-4-5:1995 (AC/DC Line to Line: ± 1 kV, AC/DC Line to Earth: ± 2 kV)
 - * 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 @ 10 ms, 30% Reduction @ 500 ms, >95% Reduction @ 5000 ms)
- LVD: * EN 60950 (A1/1992; A2/1993; A3/1993; A4/1995; A11/1997)

Safety Compliance

Underwriters Laboratories Compliance Statement

Important! Before making connections, make sure you have the correct cord set. Check it (read the label on the cable) against the following:

Operating Voltage	Cord Set Specifications
120 Volts	UL Listed/CSA Certified Cord Set
	Minimum 18 AWG
	Type SVT or SJT three conductor cord
	Maximum length of 15 feet
	Parallel blade, grounding type attachment plug rated 15 A, 125 V
240 Volts (Europe only)	Cord Set with H05VV-F cord having three conductors with minimum diameter of 0.75 mm ²
	IEC-320 receptacle
	Male plug rated 10 A, 250 V

The unit automatically matches the connected input voltage. Therefore, no additional adjustments are necessary when connecting it to any input voltage within the range marked on the power adapter.

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 Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
4. Die Netzanschlusßsteckdose 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 Netzanschlusßleitung 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 autorisiertem 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 EN 60950 geprüft ist. Ausgangswerte der Stromversorgung sollten die Werte von AC 7,5-8 V, 50-60 Hz nicht über oder unterschreiten sowie den minimalen Strom von 1 A nicht unterschreiten.

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70 dB(A) oder weniger.

TABLE OF CONTENTS

EZ Connect™ 2.4 GHz Wireless Ethernet Adapter	1
Introduction	1
Package Checklist	2
Hardware Description	3
Applications	4
LED Indicators	5
System Requirements	6
Hardware Installation	7
System Configuration	8
Browser Configuration	9
Disable Proxy Connection	9
Internet Explorer (5 or above) in Microsoft Windows	9
Internet Explorer in Macintosh	9
Navigating the Web Browser Interface	10
Making Configuration Changes	10
System	12
LAN	14
Wireless	15
Filter	22
Tools	23
Status	26
Statistics	26
Utility Installation (98/Me/NT/2000)	27
Using the AP Management Utility	27
Configure AP	28
Operation Mode	31
Set MAC Filter	32
Change Password	33
Reset AP	33
Reload Default	33
Updating Firmware	33
Saving Configuration Settings	34
Restoring Configuration Settings	34

TABLE OF CONTENTS

Network Configuration and Planning35
 Network Topologies 35
 Ad Hoc Wireless LAN 35
 Infrastructure Wireless LAN 36
 Infrastructure Wireless LAN for Roaming Wireless PCs 37
 A Wireless LAN with Internet Access 38

Troubleshooting39
 802.11b Wireless Products Maximum Distance Table . . . 40

Specifications41

Terminology43

EZ CONNECTTM 2.4 GHz WIRELESS ETHERNET ADAPTER

Introduction

SMC's EZ Connect 2.4 GHz Wireless Ethernet Adapter (SMC2671W) can function as:

- an Ethernet converter , providing a wireless connection to an access point via an RJ-45 connection to devices such as Microsoft Xbox and Ethernet ready embedded devices
- a standard IEEE 802.11b access point
- a wireless repeater, repeating an access point's signals to extend the access points coverage

This solution offers fast, reliable wireless connectivity with considerable cost savings over wired LANs (eliminates long-term maintenance overhead for cabling). Just install enough wireless access points to cover your network area, plug wireless cards into your notebooks or install wireless adapters into your desktops, and start networking.

Use this device in conjunction with SMC's EZ Connect Wireless Cards to create an instant network that integrates seamlessly with Ethernet LANs. Moreover, moving or expanding your network is as easy as moving or installing additional access points – no wires!

Package Checklist

The EZ Connect 2.4 GHz Wireless Ethernet Adapter package includes:

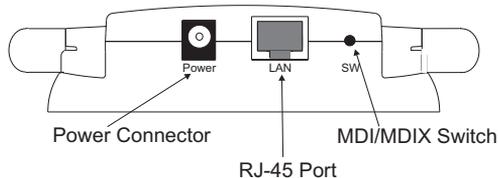
- One EZ Connect 2.4 GHz Wireless Ethernet Adapter (SMC2671W)
- One 5 VDC power adapter
- Installation CD containing this User Guide and utility program
- One RJ-45 cable

Please register this product and upgrade the product warranty at <http://www.smc.com>.

Inform your dealer if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packing materials. Use them again to repack the product in case there is a need to return it.

HARDWARE DESCRIPTION

The EZ Connect Wireless Carbus Adapter supports 1, 2, 5.5 and 11 Mbps half-duplex connections to Ethernet networks. This device is fully compliant with 2.4 GHz DSSS CSMA/CA wireless networking as defined in IEEE 802.11b. It can be connected via an RJ-45 connection to devices such as Nintendo GameCube, Microsoft Xbox, Sony PlayStation II, and Ethernet ready embedded devices. It can also function as an IEEE 802.1b Access Point or as a Repeater (see "Introduction" on page 1). Support is currently provided for Windows 95/98/Me/2000/XP.



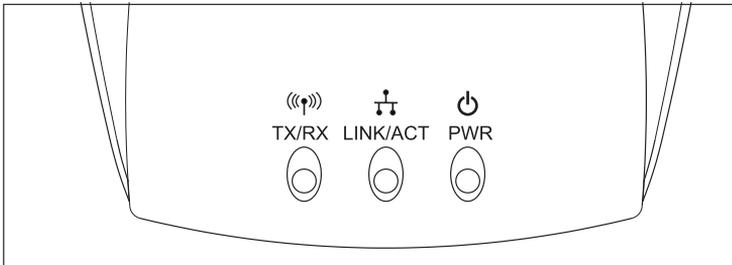
Applications

EZ Connect wireless products offer a fast, reliable, cost-effective solution for wireless Ethernet client access to the network in applications such as:

- **Video Game Systems**
Provides wireless Internet access for users of video game systems such as Nintendo GameCube, Microsoft Xbox and Sony PlayStation II
- **Remote access to corporate network information**
E-mail, file transfer, and terminal emulation
- **Difficult-to-wire environments**
Historical or old buildings, asbestos installations, and open areas where wiring is difficult to employ
- **Frequently changing environments**
Retailers, manufacturers, and banks which frequently rearrange the workplace or change locations
- **Temporary LANs for special projects or peak periods**
Trade shows, exhibitions, and construction sites that need a temporary setup. Retailers, airline, and shipping companies that need additional workstations for peak periods. Auditors who require workgroups at customer sites
- **Access to databases for mobile workers**
Doctors, nurses, retailers, or white-collar workers who need access to databases while being mobile in a hospital, retail store, in an office, or on a campus
- **SOHO users**
SOHO (Small Office and Home Office) users who need easy and quick installation of a small computer network

LED Indicators

The EZ Connect 2.4 GHz Wireless Ethernet Adapter includes three status LED indicators, as described in the following figure and table.



LED		Status	Description
Power (PWR)		On (Red)	Power is being supplied.
Wireless Link	TX/RX	Flashing (Green)	The device is transmitting data through wireless links.
		Flashing (Green)	The device is receiving data through wireless links.
Ethernet	LNK/ACT	On (Yellow)	The device has established a valid Ethernet link.
		Flashing (Yellow)	The device is transmitting or receiving data on the Ethernet LAN

System Requirements

Before you install the EZ Connect 2.4 GHz Wireless Ethernet Adapter, be sure you have met the following requirements:

- An AC power outlet (100~240 V, 50~60 Hz)
- An available RJ-45 (UTP) port on an Ethernet hub or switch
- 802.11b compliant wireless Ethernet adapters with TCP/IP protocols installed
- TCP/IP network protocol installed on each PC that needs to access the Internet.
- A Java-enabled web browser, such as Microsoft Internet Explorer 5.5 or above installed on one PC at your site for configuring the Wireless Ethernet Adapter.

HARDWARE INSTALLATION

1. Select the Site – Choose a location for your SMC2671W Wireless Ethernet Adapter. Usually, the best location is at the center of your wireless coverage area, if possible within line-of-sight of all wireless devices.
2. Place the wireless ethernet adapter in a position that gives it maximum coverage. Normally, the higher you place the antenna, the better the performance.
3. Position the antennas in the desired positions. For more effective coverage, position one antenna along the vertical axis and the other antenna along the horizontal axis (the antennas emit signals along the toroidal plane - and thus provide more effective coverage when positioned along different axis).
4. If used in Ethernet Converter mode, connect the Ethernet cable to the RJ-45 socket of the device will communicate wirelessly with an access point.
5. If used in Acces Point, connect the Ethernet cable – The SMC2671W can be wired to an Ethernet network through an Ethernet device such as a hub or a switch using category 3, 4, or 5 UTP Ethernet cable and an RJ-45 connector.
6. Connect the power cable – Connect the power adapter cable to the 5 VDC power socket on the rear panel.

Warning: Use only the power adapter supplied with the SMC2671W.

SYSTEM CONFIGURATION

Your SMC2671W is a plug and Play device. This means that, in most cases, you will not need to configure it.

The SMC2671W Wireless Ethernet Adapter includes an SNMP agent that is accessible through an SNMP manager application (EZ Connect Wireless AP Manager.) The SNMP agent supports read-write and read-only modes.

The provided CD contains a utility program for the EZ Connect 2.4 GHz Wireless Ethernet Adapter. The latest version may be downloaded from the download site specified on the back cover of this manual.

The SMC2671W can be configured by any Java-supported browser, which is Internet Explorer 5.5 or above. Using the web management interface, you can configure the Wireless Access Point and view statistics to monitor network activity.

Before you attempt to log into the SMC2671's web-based Administration, please verify the following.

1. Your browser is configured properly (see below).
2. Disable any firewall or security software that may be running.
3. Confirm that you have a good link LED where your computer is plugged into the Wireless Access Point. If you don't have a link light – then try another cable to get a good link.

Browser Configuration

Confirm your browser is configured for a direct connection to the Internet using the Ethernet cable that is installed in the computer. This is configured through the options/preference section of your browser.

Disable Proxy Connection

You will also need to verify that the HTTP Proxy feature of your web browser is disabled. This is so that your web browser will be able to view the SMC2671W configuration pages. The following steps are for Internet Explorer. Determine which browser you use and follow the appropriate steps.

Internet Explorer (5 or above) in Microsoft Windows

1. Open Internet Explorer. Click Tools, and then select Internet Options.
2. In the Internet Options window, click the Connections tab.
3. Click the LAN Settings button.
4. Clear all the check boxes and click OK to save these LAN settings changes.
5. Click OK again to close the Internet Options window.

Internet Explorer in Macintosh

1. Open Internet Explorer. Click Explorer/Preferences.
2. In the Internet Explorer Preferences window, under Network, select Proxies.
3. Uncheck all check boxes and click OK.

SYSTEM CONFIGURATION

To access the SMC2671W's management interface, enter the Wireless Access Point IP address in your web browser http://192.168.2.254 Then click LOGIN. (By default, there is no password.)



The home page displays the Setup options.

Navigating the Web Browser Interface

The SMC2671W's management interface features a user-friendly setup interface. This configuration UI supports advanced functions like password setting , LAN IP setting, wireless security configuration and MAC address filtering, SNMP, firmware upgrade, and other advanced functions.

Making Configuration Changes

Configurable parameters have a dialog box or a drop-down list. Once a configuration change has been made on a page, be sure to click the APPLY or REFRESH button at the bottom of the page to enable the new setting.

Note: To ensure proper screen refresh after a command entry, ensure that Internet Explorer 5.5 is configured as follows: Under the menu Tools/Internet Options/General/Temporary Internet Files/Settings, the setting for “Check for newer versions of stored pages” should be “Every visit to the page.”

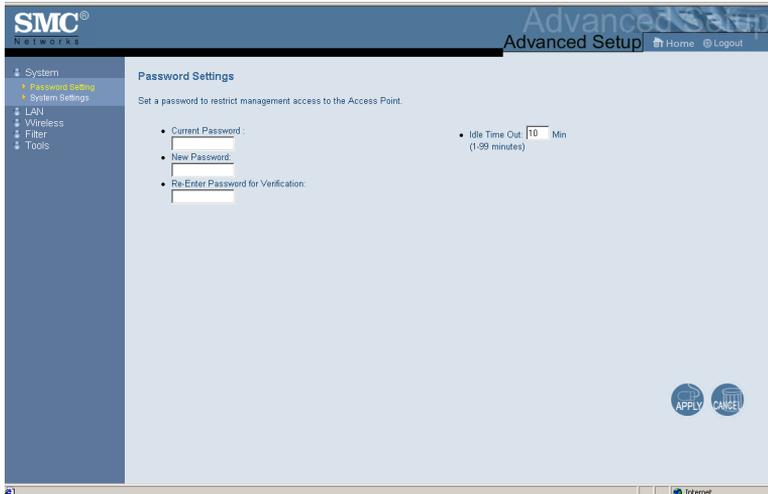
NAVIGATING THE WEB BROWSER INTERFACE

Use the web management interface to define system parameters, manage and control the Wireless Access Point and its ports, or monitor network conditions. The following table outlines the selections available from this program.

Menu	Description
System	Sets the password for administrator access, and the IP address of a PC that will be allowed to manage the Wireless Access Point remotely
LAN	Sets the TCP/IP configuration of the Wireless Access Point's LAN interface and all DHCP clients
Wireless	Configures the wireless channel, SSID, and encryption for wireless communications
Filter	Configures control access to your network clients based on the MAC (Media Access Control) Address of the client machine
Tools	Contains options to backup & restore the current configuration, restore all configuration settings to the factory defaults, update system firmware, or reset the system Provides WAN connection type and status, firmware and hardware version numbers, system IP settings, as well as DHCP, NAT, and Firewall information. Displays the number of attached clients, the firmware versions, the physical MAC address for each media interface, and the hardware version and serial number.

System

Password Settings

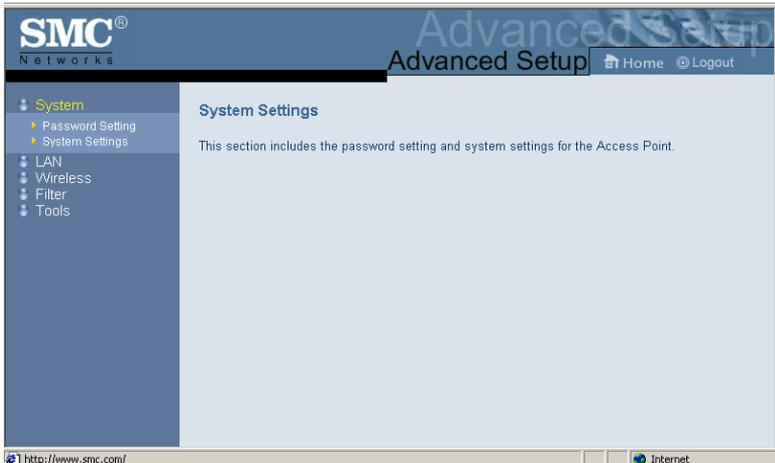


Use this menu to restrict access based on a password. By default, there is no password. For security you should assign one before exposing the SMC2671W to the Internet.

Passwords can contain from 3–12 alphanumeric characters and are not case sensitive.

Enter a maximum Idle Time Out (in minutes) to define a maximum period of time for which the login session is maintained during inactivity. If the connection is inactive for longer than the maximum idle time, it will perform system logout, and you have to login to the web management system again. (Default: 10 minutes)

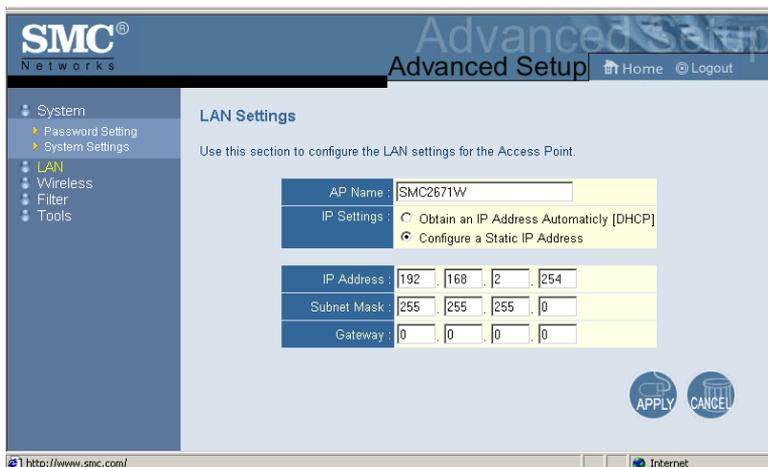
System Settings



System Settings allows a remote PC to configure, manage, and monitor the SMC2671W using a standard web browser. Check Enable and enter the IP address of the remote host. Click APPLY.

Note: If you specify 0.0.0.0 as this IP address, any host can manage the SMC2671W.

LAN



With Obtain an IP Address Automatically [DHCP] enabled, the IP address, subnet mask and default gateway can be dynamically assigned to the SMC2671W by the network DHCP server. (Default: Disable)

Note: If there is no DHCP server on your network, then the SMC2671W will automatically start up with its default IP address, 192.168.2.254.

By using the SMC2671W's built-in DHCP (Dynamic Host Configuration Protocol) server, you are allowing the SMC2671W to handle all the IP addressing on your Local Area Network (LAN) (when in Access Point mode). This can save you much of the time and hassle of setting up your network. If you have a server on your network that requires a static IP address, you may still use the "DHCP Server" and manually assign a static IP address to your server. (Default: Disable)

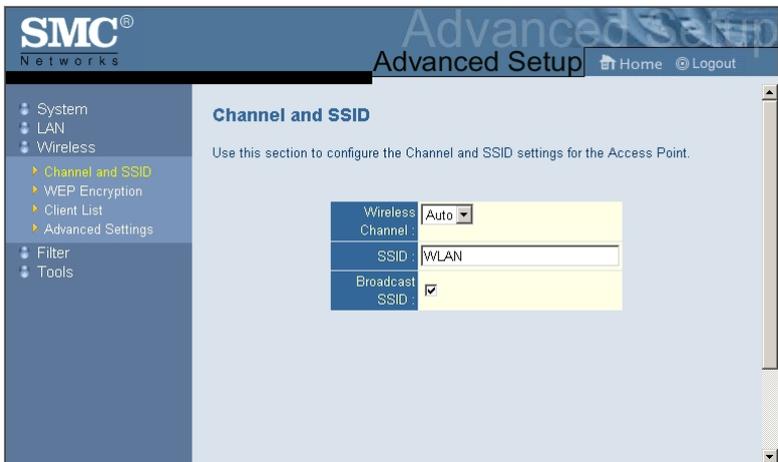
If your Internet Service Provider has assigned a fixed IP address, select Configure a Static IP Address. Enter the assigned address and subnet mask for the SMC2671W then enter the gateway address of your ISP.

You may need a fixed address if you want to provide Internet services, such as a web server or FTP server.

Wireless

To configure the SMC2671W as an Ethernet Converter, all you need to do is define the radio channel, the Service Set identifier (SSID), and encryption options.

Channel and SSID



The screenshot shows the SMC Networks Advanced Setup web interface. The top navigation bar includes the SMC Networks logo, the title "Advanced Setup", and links for "Home" and "Logout". A left-hand menu lists various configuration categories: System, LAN, Wireless, Channel and SSID (highlighted), WEP Encryption, Client List, and Advanced Settings. Below this are Filter and Tools options. The main content area is titled "Channel and SSID" and contains the instruction: "Use this section to configure the Channel and SSID settings for the Access Point." The configuration fields are as follows:

Wireless Channel:	Auto
SSID:	WLAN
Broadcast SSID:	<input checked="" type="checkbox"/>

If the SMC2671W is in Access Point mode you must specify a common radio channel and SSID (Service Set ID) to be used by the Wireless Access Point and all of your wireless clients. Be sure you configure all of your clients to the same values.

In Ethernet Converter or Repeater mode, the radio channel and

SYSTEM CONFIGURATION

SSID (Service Set ID) of the SMC2671W must be set to the same values as those of the access point they are associated with.

Wireless Channel: The radio channel through which a wireless access point communicates with PCs in its BSS. (Default: 7)

Note: The available channel settings are limited by local regulations.

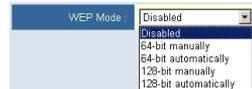
SSID: The Service Set ID. This should be set to the same value as other wireless devices in your network. (Default: WLAN.)

Note: The SSID is case sensitive and can consist of up to 32 alphanumeric characters.

Broadcast SSID: In Access Point or Repeater Mode, the SMC2671W can be enabled to broadcast the SSID on the wireless network for easy connection with client PCs. (Default: Enable)

WEP Encryption

If you are transmitting sensitive data across wireless channels, you should enable Wired Equivalent Privacy (WEP) encryption.



Encryption requires you to use the same set of encryption/decryption keys for a wireless access point and all of its wireless clients. The SMC2571W supports shared key encryption with key lengths of the standard 64-bit and industry standard 128-bit. The bit key must be in hexadecimal numerals. (0~9, A~F, e.g., D7 0A 9C 7F E5.)

64-Bit Manual Entry

Key 1~4 - Each Key ID contains 10 HEX digits.

128-Bit Manual Entry

Key ID contains 26 HEX digits.

WEP Mode:	64-bit manually
Key 1:	00 00 00 00 00 (5 hex digit pairs)
Key 2:	00 00 00 00 00 (5 hex digit pairs)
Key 3:	00 00 00 00 00 (5 hex digit pairs)
Key 4:	00 00 00 00 00 (5 hex digit pairs)

WEP Mode:	64-bit automatically
PassPhrase:	<input type="text"/>
Key:	<input checked="" type="radio"/> Key1 <input type="radio"/> Key2 <input type="radio"/> Key3 <input type="radio"/> Key4

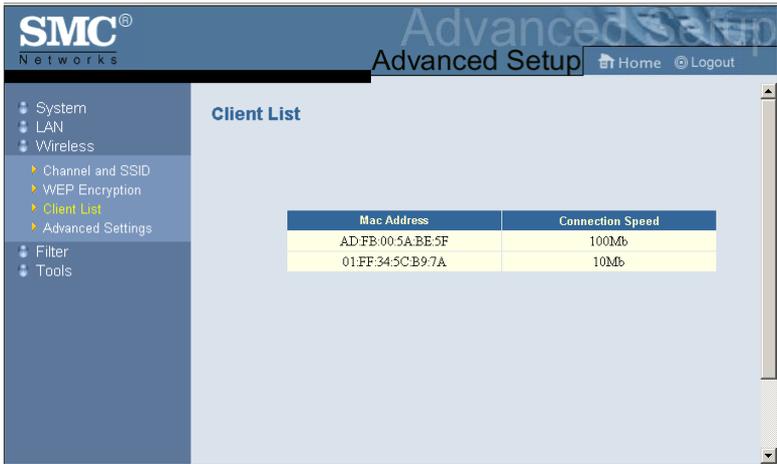
WEP Mode:	128-bit manually
Key:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 (13 hex digit pairs)

WEP Mode:	128-bit automatically
PassPhrase:	<input type="text"/>

You may automatically generate encryption keys or manually enter the keys. For automatic 64-bit security, enter a passphrase. Four keys will be generated (as shown above). Choose a key from the four generated keys. Automatic 128-bit security generates a single passphrase.

Note that Wired Equivalent Privacy (WEP) protects data transmitted between wireless nodes, but does not protect any transmissions over your wired network or over the Internet.

Client List



The screenshot shows the SMC Networks Advanced Setup interface. The left sidebar contains a navigation menu with the following items: System, LAN, Wireless, Channel and SSID, WEP Encryption, Client List (highlighted), Advanced Settings, Filter, and Tools. The main content area is titled 'Client List' and contains a table with the following data:

Mac Address	Connection Speed
AD:FB:00:5A:BE:5F	100Mb
01:FF:34:5C:B9:7A	10Mb

The Client List screen displays the MAC address and network speed of the associated clients. Note that the client list will be blank if the SMC2671W is in Ethernet Converter mode.