

SMCWUSBT-G EZ Connect™ g Wireless USB 2.0 Adapter



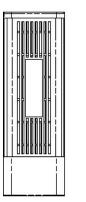
SMCWUSBT-G

Wireless USB 2.0 Adapter

802.11b/g (54 Mbps)

User's Manual









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Before You Use

For brevity, throughout this manual USB Wireless LAN Card is used to indicate all the types. Also, the following terms/abbreviations are used interchangeably:

Packing List

Before using the wireless USB 2.0 adapter, check all the following items are present and in good condition. If any of the items is damaged or missing, contact your retailer immediately.

- ✓ Companion CD x 1
- ✓ Wireless USB 2.0 adapter x 1

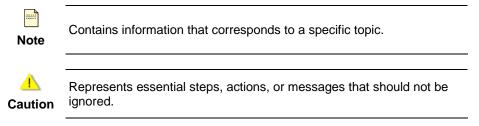
System Requirements

To use the Wireless LAN Card, your computer must meet the following minimum requirements:

- Laptop/ PC containing:
 - ✓ 32-bit CardBus slot (or Desktop PC with PC Card-PCI adapter)
 - ✓ Mini PCI
 - ✓ 32 MB memory or greater
 - ✓ 300 MHz processor or higher
 - ✓ Hard disk space at least 30 Mbytes
- Microsoft Windows 2000, Windows Millennium Edition, Windows 98 Second Edition, Windows XP, or Windows NT 4.0 (with Service Pack 6)

Notes and Cautions

Note and *Caution* in this manual are highlighted with graphics as below to indicate important information.



This User's Manual contains information on how to install and configure your USB Wireless LAN Card. From now on, we will guide you through the correct configuration steps to implement your device.

Chapter 1 Overview

This product is an IEEE 802.11b/g Wireless LAN Card with USB interface solution. This solution provides compatibility with 802.11b and 802.11g standard devices. Now users have the flexibility to connect to 802.11b or 802.11g networks effortlessly.

It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operating in 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transmission, the Wireless LAN Card transfers data at speeds up to 54Mbps. Both Ad hoc and Infrastructure mode are supported. For network security concern, 64/128-bits Wired Equivalent Privacy (WEP) encryption is used. In addition, its standard compliance ensures that it can communicate with any 802.11b/g networks. It also supports Microsoft WHQL software for Windows XP.

Wireless LAN Basics

This section contains some Wireless LAN basics to help you better understand how the products work together to create a wireless network.

Local Area Network (LAN)

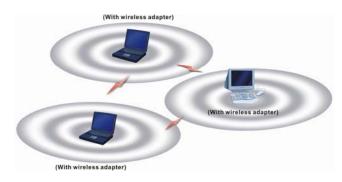
LAN is a local network that exists in a relatively limited area. Within the network, two or more computers are connected together sharing files and peripheral devices such as printers.

The Wireless LAN Card allows you to interact with other computers without having to run cables normally associated with networks. This lets you move your computer around while staying connected to your network.

There are two ways to use the Wireless LAN Card. One way is to connect directly to one or more Wireless LAN Card equipped computers, forming an Ad hoc wireless network. The second way is to connect to an Access Point that gives you access to an existing wired LAN, forming an Infrastructure wireless network.

Ad Hoc Mode

An Ad Hoc network offers peer-to-peer connections between wireless stations that are in range of each other. The stations communicate directly with each other without using an Access Point or any connection to a wired network. This mode is useful for quickly and easily setting up a wireless network anywhere that a wireless infrastructure does not exist or is not required for services. In an Ad Hoc network, all wireless stations must have the same SSID, channel and WEP keys (if enabled) to communicate with each other.



Infrastructure Mode

An Infrastructure wireless network consists of at least one Access Point connected to the wired network infrastructure and a set of wireless end stations. The AP acts as a gateway, linking the wireless network to a wired LAN. As a result, wireless stations have access to all of the features of your wired LAN including e-mail, Internet, network printers and files server access.



Roaming

For large environments, multiple Access Points can be implemented to extend the wireless service coverage area for seamless wireless access. It allows wireless clients to roam from one AP to another while maintaining the wireless connectivity at all times. A wireless client wandering across multiple APs will automatically change the operating radio frequency as required.

In a roaming network, all APs and wireless clients must have the same Service Set Identity (SSID) and security setting (if enabled). Alternatively the mobile station may use an SSID of "any" to associate with any available AP, regardless of the AP's SSID. Roaming among different Access Points is controlled automatically to maintain the wireless connectivity at all times.



General Specification

Host Interface	USB 2.0
Form Factor	USB Wireless Module
Chipset	ATHEROS AR5523A + AR2112A
Operation Voltage	5.0VDC
Network Standard	IEEE 802.11b / IEEE 802.11g
Hardware Encryption	AES, TKIP ,and WEP
Quality of Service	802.11e draft
Network Architectures	Ad hoc / Infrastructure
Modulation Technology	OFDM with BPSK, QPSK, 16QAM, 64QAM DBPSK, DQPSK, and CCK
Media Access Technique	CSMA/CA
Supported Data Rates	IEEE 802.11b: 1 – 11 Mbps IEEE 802.11g: 1 – 54 Mbps Atheros Super G Mode: up to 108 Mbps
Antenna Type	Printed PCB antenna
OS Compatibility	WIN 98SE, WIN ME, WIN 2000, and WIN XP
Client Utility	Automatic location profile, site monitor, current link status, and diagnostics

Chapter 2 Software Installation

This chapter describes how to install the USB Wireless LAN Card driver and utility. Windows 98, ME, 2000, and XP use the same setup program; however, operation system-specific situation may occur during or after the installation process. The following describes only the overall installation procedure. In OS-specific situations, you should follow the on-screen instructions to proceed. You can refer to the general guidelines provided in next section for further information.

In case you need to re-install the driver and software for any reason, we recommend that you remove any previously installed driver and software from your system first. Refer to Chapter 6 for uninstalling the Wireless LAN Card driver and utility, following the instructions to remove previous driver release.

Installing Wireless Adapter Driver and Utility

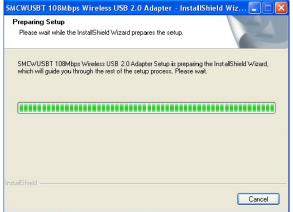
The software you are ready to install comprises this adapter's driver and utility. Thus, the following instructions will guide you through overall installation procedure. In OS-specific situations, you should follow the on-screen instructions to proceed. For the details, please read the user's manual.



If your computer's operating system is Windows XP that is installed with Service Pack 1 only, it is recommended to further install **Windows XP** Hotfix – KB822603.

Follow these steps below to install the wireless adapter driver and utility.

- 1. Close all Windows programs that are running.
- 2. Insert the Utility CD into your CD-ROM drive and double click Setup.exe in the companion CD.
- 3.



After you double click **Setup.exe** in the companion CD, a **Preparing Setup** window appears, and you may go to a next step when the processing bars end.

ChicWHEDT 400Mbns Wireless HED 2.0 Adoptor InstallChield Wireles	When the welcome screen pops up, click Next
SMCWUSBT 108Mbps Wireless USB 2.0 Adapter - InstallShield Wizard for SMCWUSBT 108Mbps Wireless USB 2.0 The InstallShieldR Wizard will install SMCWUSBT 108Mbps Wireless USB 2.0 Adapter on your com continue, click Next.	0 Adapter
< Back. Next >	Cancel

SMCWUSBT 108Mbps Wireless USB 2.0 Adapter -	InstallShield Wizard 🛛 🔀	Please select Complete and click Next .
Setup Type Select the setup type to install.	SMC Notworks	
Please select a setup type. Complete All program features will be installed. (R Custom Select which program features you war for advanced users.		
InstallShield Kack	Next > Cancel	

6.

SMCWUSBT 108Mbps Wireless USB 2.0 Adapter - InstallShield Wizard 🛛 🔀	Now, you see processing bars increasing during
Setup Status	installation. Installation progress takes a few
SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Setup is performing the requested operations.	minutes.
Installing	
D:\\{70D2222D-4B09-4EAA-A34C-E27D8768E873}\setup.exe	
InstallShield -	

7.	
Software Installation	During installation, a warning window pops up. Click
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why</u> this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.	Continue Anyway to continue the installation work.
Continue Anyway STOP Installation	

	SMCWUSBT 108Mbps Wireless USB 2.0 Adapter - InstallShield Wizard	Plug in your wireless USB 2.0 adapter when the
	Setup Status	screen pops up.
L.	SMCv/USBT 108Mbps Wireless USB 2.0 Adapter Setup is performing the requested operations.	
	Installing	
•		
S Please	insert your USB adapter into the USB port now Cancel Cancel	

9.

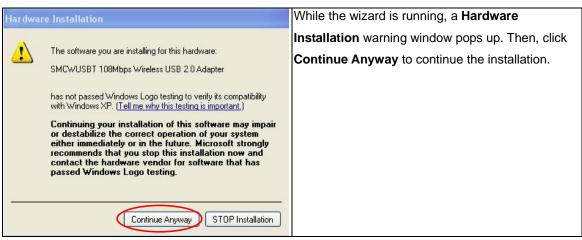
	SMCWUSBT 108Mbps Wireless USB 2.0 Adapter - InstallShield Wizard 🛛 🔀	The USB device you inserted is found.
	Setup Status	
	Stop Status	
	SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Setup is performing the requested operations.	
	operandris.	
	Installing	
4	Found USB Device	
	Install5hield-	
	Cancel	

Found New Hardware Wiz	zard	System checks for new hardware and meanwhile
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: Remote NDIS 802.11 Wireless Adapter If your hardware came with an installation CD or floppy disk, insett it now. What do you want the wizard to do? Install the software automatically [Recommended] Install the software automatically [Recommended] Install from a list or specific location (Advanced) Click Next to continue:	the Found New Hardware Wizard screen pops up. Choose Install the software automatically (Recommended) and then click Next.

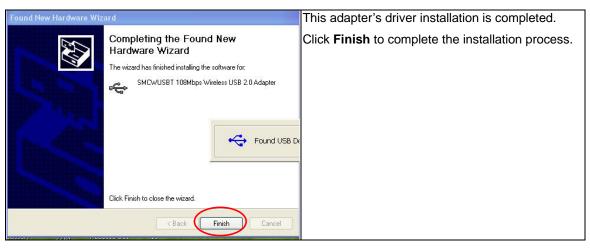
11.



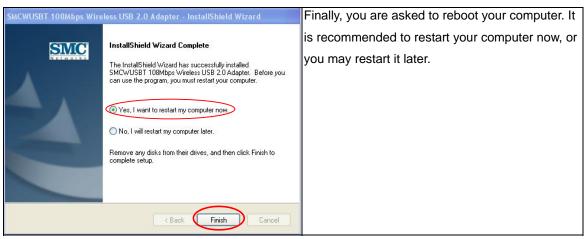
12



nd New Hardware Wizard	The wiz	zard is installing the driver. It may take
lease wait while the wizard installs the software	several	minutes.
SMCWUSBT 108Mbps Wireless USB 2.0 Adapte	Found USB Device	
ar5523 bin To D:W/INXPSystem32\Drivers		
(Back Next)	Cancel	



15.





When you succeed in installing the driver, you will see a logo indicating the wireless signal strength at a lower right corner of the toolbar on desktop, after you restart your computer.

17

🖳 Device Manager	Alternatively, you may check if this adapter is
File Action View Help	successfully installed through Device Manager o
← → III 😭 □ 🔜 HELENA III - 🗣 Computer	your computer. If it is successful, you will see
	SMCWUSBT 108Mbps Wireless USB 2.0
	Adapter under Network adapters of Device
 Floppy disk controllers Floppy disk drives Human Interface Devices Floppy disk drives Floppy disk drives Floppy disk drives Mice and other pointing devices Monitors Monitors Monitors Polink DFE-S30TX PCI Fast Ethernet Adapter (rev.B) SiS 900-Based PCI Fast Ethernet Adapter SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Porcessors Sound, video and game controllers 	Manager.
⊕- y System devices 관 😋 Universal Serial Bus controllers	

16.

Chapter 3 Utility Configuration

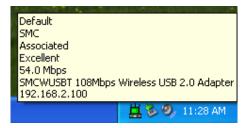
The configuration of the Wireless LAN Card is done through the USB Wireless LAN Configuration Utility. The utility also includes a number of tools to display current statistics and status information pertaining to your Wireless LAN Card.

Tray Icon

The tray icon appears at the bottom of the screen.



Hold the mouse cursor over the tray icon to display the current configuration profile name and association, as well as transmit and receive speed and the wireless adapter name.



Right clicking on the tray icon 📙 , you can see a menu on which configuration items of the utility appears.

Help Exit	
Open SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility	100
Preferences	
Disable Radio	÷.,
Manual LEAP Login	
Reauthenticate	
Select Profile	• 188
Show Connection Status	

Each item under the menu is defined below.

Help	Open the online help).	
Exit	Exit the utility application	ation.	
Open SMCWUSB 108Mbps Wireless USB 2.0 Adapter Utility	Launch the utility. Use the utility to configure the profile or view status and statistics information.		
Preferences	Set the Startup Options and Menu Options for the utility. Check whether the program should start automatically when Windows starts, and check the menu items that should appear on the popup menu.		
Enable/Disable Radio	Enable or disable the RF Signal.		
Manual LEAP Login	Log in to LEAP manually, if LEAP is set to manually prompt for user name and password on each login.		
Reauthenticate	Re-authenticate to the access point.		
Select Profile	 Click a configuration profile name to switch to it. If no configuration profile exists for a connection, add a profile first. 		
Show Connection Status	S Display the Connection Status window. This window displays information about the connection:		
	Active Profile	Displays the name of the active configuration profile.	
	Auto Profile Selection	Shows whether auto profile selection is enabled.	
	Connection Status	Displays whether the adapter is connected to a wireless network.	
	Link Quality	Lists the quality of the link connection.	
	SSID	Displays the SSID of the associated network.	
	Access Point Name	Shows the name of the access point the wireless adapter is connected to.	
	Access Point IP Address	Shows the IP address of the access point the wireless adapter is connected to.	
	Link Speed	Lists the speed of the link connection.	
	Client Adapter IP Address	Displays the IP address of the wireless adapter.	

Checking the Connection Status

You may double click the wireless tray icon ä at the lower right corner of your PC monitor. Then, a small status screen appears as follows.

nection Status		2
Active Profile:	ASKRD-9F 54	
Auto Profile Selection:	Disabled	
Connection Status:	Associated	
Link Quality:	Excellent	
SSID:	ASKRD-9F 54	
Access Point Name:	Unavailable	
Access Point IP Address:	Unavailable	
Link Speed:	54.0 Mbps	
Client Adapter IP Address:	10.1.25.94	
		ОК

Accessing Vendor's Wireless LAN Utility

Please right click the wireless tray icon at the lower right corner and select Open SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility... as illustrated below.

Help Exit		
Open SMCWLSBT 108Mbps Wireless USB 2,0 Adapter Utility		
Preferences		
Disable Radio		
Manual LEAP Login		
Reauthenticate		
Select Profile		

Note			

If the wireless tray icon is not launched, you can manually start the Wireless LAN Utility by selecting Start > Programs > SMCWUSBT 108Mbps Wireless USB 2.0 Adapter > SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Client Utility.

Configuration Tab

Go to the configuration tab on the user interface to set parameters for this adapter.

After opening the option of SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility..., you will see a user interface as set below.

Action Options Hel				
SMC			EZ C	onnect
Networks Current Status Prof	ile Management 🛛 🛙	Diagnostics	-	
SMC	Profile Name:	ASKRD-9F 54		
Networks	Link Status:	Associated		
	Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	10.1.25.94
	Network Type:	Infrastructure	Current Channel:	1
Server Bas	ed Authentication:	None	Data Encryption:	WEP
	Signal Strength:			Excellent
				Advanc

At the upper left side of the user interface, you can see 3 items as utility tools, **Action**, **Options**, and **Help**. Next, you can also see 3 main items you should know, **Current Status**, **Profile Management**, and **Diagnostics**. Please read the following descriptions and you can know how to read the connection status and use the tool.

SM	C		F7 C	onnect
Netwo Current Status		Diagnostics		Sec. Da
CIMC	Profile Name:	ASKRD-9F 54		
Network	Link Status:	Associated		
	Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	10.1.25.94
	Network Type:	Infrastructure	Current Channel:	1
Serve	r Based Authentication:	None	Data Encryption:	WEP
	Signal Strength:			Excellent

You can use the tools of utility that are framed in red. The tools are **Action**, **Options**, and **Help**.

Action Tab

Use the **Action** menu to access the Utility tools:

Disable Radio Disable Tray Icon			EZ C	onnect
Manual LEAP Login			L.	<u> </u>
Reauthenticate	anagement [Diagnostics		
Exit	Profile Name:	ASKRD-9F 54		
Networks	Link Status:	Associated		
	Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	10.1.25.94
	Network Type:	Infrastructure	Current Channel:	1
Server Bas	ed Authentication:	None	Data Encryption:	WEP
	Signal Strength:			Excellent
				Advanced

- Enable/Disable Radio: Enable or disable the RF Signal on all Atheros station reference designs.
- Enable/Disable Tray Icon: Enable or disable the tray icon
- Manual LEAP Login: Log in to LEAP manually, if LEAP is set to manually prompt for user name and password on each login.
- 4. Reauthenticate: Re-authenticate to a LEAP-configured access point.
- 5. Exit: Exit the Utility application.

Options Tab

SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility Options Help Display Setting EZ Connect C SIVIC Current Status Profile Management Diagnostics Profile Name: ASKRD-9F 54 SMC Link Status: Associated Wireless Mode: 2.4 GHz 54 Mbps IP Address: 10.1.25.94 Current Channel: 1 Network Tune: Infrastructure Data Encryption: WEP Server Based Authentication: None Signal Strength: Excellent Advanced 2 × SMC EZ Connect ? × Current Sta Signal Strength Display Units: 🔵 % 💿 dBm SM 3 🗘 Refresh Interval (seconds): Data Display: O Relative Cumulative OK Cancel Signal Strength: Excellent Advanced

To change the display settings, choose Options > Display Settings from the menu.

Display Settings:

- Signal Strength Display Units: Set the units used when displaying signal strength: percentage (%) or dBm.
- 2. **Refresh Interval:** Use the up/down arrows to set the display refresh interval in seconds.
- Data Display: Set the display to cumulative or relative:
 - Relative: displays the change in statistical data since the last update.
 - Cumulative: displays statistical data collected since opening the profile.

Help Tab

If you want to know the operation guide and the version number of utility, you can select **Help** for the details, as shown below.

🍨 SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility 🛛 🔹 💽 🔀	SMCWUSBT 108Mbps Wireless USB 2.0 A dapter Utility
Action Options Help	Action Options Help
SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility Help	CINEC
About 5MCWU5BT 108Mbps Wireless USB 2.0 Adapter Utility	SMC EZ Connect g
Network.	Networks
Current Status Profile Management Diagnostics	Current Status Profile Management Diagnostics
Profile Name: ASKRD-9F 54	About 🗶
Retworks Link Status: Associated	SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility
Wireless Mode: 2.4 GHz 54 Mbps IP Address: 10.1.25.94	Version: 3.1.3.121
Network Type: Infrastructure Current Channel: 1	Copyright c 2005 SMC Network, Inc.
Server Based Authentication: None Data Encryption: WEP	Server Based Authentication: None Data Encryption: WEP
Signal Strength: Excellent	Signal Strength: Excellent
Advanced	Advanced

Current Status Tab

The **Current Status** tab contains general information about the program and its operations. The **Current Status** tab does not require any configuration.

SMC			EZ C	onnect <mark>e</mark>
Networks urrent Status Profile Manager	ment Di	agnostics	-	
SMC Profile	Name:	ASKRD-9F 54		
Networks Link	Status:	Associated		
Wireless	Mode:	2.4 GHz 54 Mbps	IP Address:	10.1.25.94
Network	: Type:	Infrastructure	Current Channel:	1
Server Based Authenti	cation:	None	Data Encryption:	WEP
Signal St	rength:			Excellent

Profile Name	The name of the current selected configuration profile. Set up the configuration name by clicking New or Modify on the Profile Management tab.	
Link Status	Shows whether the station is associated to the wireless network.	
Wireless Mode	Displays the wireless mode. See advanced information about the program and its operations on the Advanced tab.	
IP Address	Displays the computer's IP address.	
Network Type	 The type of network the station is connected to. The options include: Infrastructure (access point) Ad Hoc Configure the network type on the Advanced tab. 	
Current Channel	Shows the currently connected channel.	
Server Based Authentication	Shows whether server-based authentication is used.	
Data Encryption	Displays the encryption type the driver is using. Configure the encryption type by clicking New or Modify on the Profile Management tab on the Security tab.	
Signal Strength	Shows the strength of the signal.	

The following table describes the items found on the **Current Status** screen.

Advanced Tab

Click the **Advanced** button on the **Current Status** tab of the Utility to see advanced information about the program and its operations. The **Current Status** tab does not require any configuration.

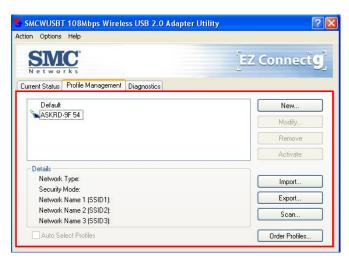
SMCWUSBT 10	8Mbps Wireless	USB 2.0 Adapter U	Jtility	? 🛛	SMCWUSBT 108Mbps W	ireless USB 2.0 Adapter Uti	lity	? 🗙
Action Options Hel	lp				Action Options Help			
SMC	,°		EZ C	onnect	Advanced Status			?
Networks Current Status Prof		Diagnostics	-		Network Name (SSID): Server Based Authentication: Data Encryption:	ASKRD-9F 54 None WEP	Current Signal Strength: Current Noise Level: Up Time:	-63 dBm -101 dBm 02:26:54
SMC	Profile Name:	ASKRD-9F 54			Authentication Type: Message Integrity Check:	Open None	802.11b Preamble: Current Receive Rate:	Short & Long 54.0 Mbps
Networks		Associated			Associated AP Name: Associated AP IP Address:	Unavailable Unavailable	Current Transmit Rate:	54.0 Mbps
	Wireless Mode:	2.4 GHz 54 Mbps		10.1.25.94	Associated AP MAC Address:	00-30-8D-F6-F1-F5	Channel: Frequency:	1 2.412 GHz
	Network Type:	Infrastructure	Current Channel:		Power Save Mode: Current Power Level:	Normal 30 mW	Channel Set:	
Server Bas	ed Authentication:	None	Data Encryption:		Available Power Levels (802.11b/g):	100, 63, 50, 30, 20, 10 mW	C	
	Signal Strength:			Excellent				ОК
			(Advanced			A	dvanced

The following table describes the items found on the Advanced Status screen.

Network Name (SSID) Displays the wireless network name. Configure the network name by clicking New or Modify on the Profile Management tab. Server Based Authentication Shows whether server-based authentication is used. Data Encryption Displays the encryption type the driver is using. Configure the encryption type by clicking New or Modify on the Profile Management tab on the Security tab. Authentication Type Displays the authentication mode. Configure the authentication mode by clicking New or Modify on the Profile Management tab. Message Integrity Check Shows whether MIC is enabled. MIC prevents bit-flip attacks on encrypted packets. Associated AP IP Address Shows the IP address of the access point the wireless adapter is associated to. Associated AP IP Address Shows the IP address of the access point the wireless adapter is associated to. Associated AP IP Address Shows the power save mode. Power management is disabled in ad hoc mode. Configure the power save mode on the Advanced tab by clicking Modify. Current Power Level Displays the transmit power level rate in mW. Configure the transmit power level on the Advanced tab by clicking Modify. Available Power Levels Shows the 802.11a and/or 802.11b/g available power levels. Levels Shows the current signal strength in dBm. Strength Surgert Shows the current noise level in dBm. Up Time Strength Shows		
Authentication Data Encryption Displays the encryption type the driver is using. Configure the encryption type by clicking New or Modify on the Profile Management tab on the Security tab. Authentication Type Displays the authentication mode. Configure the authentication mode by clicking New or Modify on the Profile Management tab. Message Integrity Associated AP Name Shows whether MIC is enabled. MIC prevents bit-flip attacks on check Associated AP Name Displays the name of the access point the wireless adapter is associated to. Associated AP IP Address Shows the IP address of the access point the wireless adapter is associated to. Associated AP MAC Address Displays the MAC address of the access point the wireless adapter is associated to. Power Save Mode Shows the power save mode. Power management is disabled in ad hoc mode. Configure the power save mode on the Advanced tab by clicking Modify. Current Power Level Displays the transmit power level rate in mW. Configure the transmit power level on the Advanced tab by clicking Modify. Available Power Levels Shows the current noise level in dBm. Current Signal Strength Shows how long the client adapter has been receiving power (in hours:minutes:seconds). If the adapter runs for more than 24 hours, the display shows in days:hours:minutes:seconds. 802.11b Preamble Displays the current receive rate in Mbps. Current Transmit Rate	Network Name (SSID)	Configure the network name by clicking New or Modify on the
encryption type by clicking New or Modify on the Profile Management tab on the Security tab. Authentication Type Displays the authentication mode. Configure the authentication mode by clicking New or Modify on the Profile Management tab. Message Integrity Check Shows whether MIC is enabled. MIC prevents bit-flip attacks on encrypted packets. Associated AP Name Displays the name of the access point the wireless adapter is associated to. Associated AP MAC Displays the NAC address of the access point the wireless adapter is associated to. Associated AP MAC Displays the MAC address of the access point the wireless adapter Address Power Save Mode Shows the IP address of the access point the wireless adapter address Power Save Mode Shows the power save mode. Power management is disabled in ad hoc mode. Configure the power save mode on the Advanced tab by clicking Modify. Current Power Level Displays the transmit power level rate in mW. Configure the transmit power level on the Advanced tab by clicking Modify. Available Power Levels Shows the 802.11a and/or 802.11b/g available power levels. Up Time Shows how long the client adapter has been receiving power (in hours:minutes:seconds). If the adapter runs for more than 24 hours, the display shows: in days:hours:minutes:seconds. 802.11b Preamble Displays the current receive rate in Mbps. Current Receive Rate Shows the current receive rate in Mbps.		
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Addressis associated to.Power Save ModeShows the power save mode. Power management is disabled in ad hoc mode. Configure the power save mode on the Advanced tab by clicking Modify.Current Power LevelDisplays the transmit power level rate in mW. Configure the transmit power level on the Advanced tab by clicking Modify.Available Power LevelsShows the 802.11a and/or 802.11b/g available power levels.Current Signal StrengthShows the current signal strength in dBm.Current Noise LevelDisplays the current noise level in dBm.Up Time Nours, the display shows in days:hours:minutes:seconds). If the adapter runs for more than 24 hours, the display shows in days:hours:minutes:seconds.802.11b Preamble Modify.Displays the current receive rate in Mbps.Current Receive Rate ChannelShows the current transmit rate in Mbps.FrequencyDisplays the current transmit rate in station is using.		
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Configure the transmit power level on the Advanced tab by clicking Modify.Available Power LevelsShows the 802.11a and/or 802.11b/g available power levels.Current Signal StrengthShows the current signal strength in dBm.Current Noise LevelDisplays the current noise level in dBm.Up Time hours:minutes:seconds). If the adapter has been receiving power (in hours, the display shows in days:hours:minutes:seconds).802.11b Preamble Current Receive RateDisplays the current receive rate in Mbps.Current Transmit Rate Displays the current transmit rate in Mbps.Displays the current transmit rate in Mbps.ChannelShows the currently connected channel.FrequencyDisplays frequency the station is using.	Power Save Mode	ad hoc mode. Configure the power save mode on the Advanced tab by clicking
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Up TimeShows how long the client adapter has been receiving power (in hours:minutes:seconds). If the adapter runs for more than 24 hours, the display shows in days:hours:minutes:seconds.802.11b PreambleDisplays the 802.11b preamble format. Configure the preamble format on the Advanced tab by clicking Modify.Current Receive RateShows the current receive rate in Mbps.Current Transmit RateDisplays the current transmit rate in Mbps.ChannelShows the currently connected channel.FrequencyDisplays frequency the station is using.		
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Configure the preamble format on the Advanced tab by clicking Modify. Current Receive Rate Shows the current receive rate in Mbps. Current Transmit Rate Displays the current transmit rate in Mbps. Channel Shows the currently connected channel. Frequency Displays frequency the station is using.	Up Time	hours:minutes:seconds). If the adapter runs for more than 24
Current Transmit Rate Displays the current transmit rate in Mbps. Channel Shows the currently connected channel. Frequency Displays frequency the station is using.	802.11b Preamble	Configure the preamble format on the Advanced tab by clicking
Channel Shows the currently connected channel. Frequency Displays frequency the station is using.	Current Receive Rate	Shows the current receive rate in Mbps.
Frequency Displays frequency the station is using.	Current Transmit Rate	Displays the current transmit rate in Mbps.
	Channel	Shows the currently connected channel.
Channel Set Shows the current channel set.	Frequency	Displays frequency the station is using.
	Channel Set	Shows the current channel set.

Profile Management

Configure the wireless network adapter (wireless card) from the Profile Management tab of the Utility.



Creating or Modifying a Configuration Profile

To add a new configuration profile, click New on the Profile Management tab

ion Options Help	
SIMC.	EZ Connecto
urrent Status Profile Management Diagnostics	
Default	New
ASKRD-9F 54	Modifu
	Remove
	Activate
Details	
Network Type:	Import
Security Mode:	
Network Name 1 (SSID1):	Export
Network Name 2 (SSID2):	Scan
Network Name 3 (SSID3):	
Auto Select Profiles	Order Profiles

To modify a configuration profile, select the configuration from the Profile list and click the **Modify** button.

	eless USB 2.0 Adapter Utilit	ty 🥐 💽
ction Options Help		
SMC.		[EZ Connect 9]
Current Status Profile Managemer	nt Diagnostics	
Default		New
ASKRD-9F 54		Modify
		Remove
		Remove Activate
Details		
Network Type:	Infrastructure	
Network Type: Security Mode:	Pre-Shared Key	Activate
Network Type: Security Mode: Network Name 1 (SSID1):	Pre-Shared Key ASKRD-9F 54	Activate
Network Type: Security Mode: Network Name 1 (SSID1): Network Name 2 (SSID2):	Pre-Shared Key	Activate

General Tab

In the Utility, access the General tab by clicking New or Modify on the Profile Management tab.



Edit the fields in the General tab to configure the configuration profile. Make sure to also edit the **Security** and **Advanced** tabs.

eneral Security Advance	be	
Profile Settings	22	
Profile Name:	ASKRD-9F 54	
Client Name:	George	
Network Names	F	
SSID1:	ASKRD-9F 54	

- Profile Name: Identifies the configuration profile. This name must be unique. Profile names are not case sensitive.
- 2. Client Name: Identifies the client machine.
- Network Names (SSIDs): The IEEE 802.11 wireless network name. This field has a maximum limit of 32 characters. Configure up to three SSIDs (SSID1, SSID2, and SSID3).

Security Tab

In the Utility, access the **Security** tab by clicking **New** or **Modify** on the **Profile Management** tab. Click the **Security** tab in the **Profile Management** window.

rofile Management			?
General Security Advanced			
Set Security Options			
O WPA	WPA EAP Type:	LEAP 👻	
O WPA Passphrase			
O 802.1x	802.1x EAP Type:	LEAP 👻	
Pre-Shared Key (Static WEP)			
O None			
Configure		Allow Association to Mixed Cells	
		ОК	Cancel

Edit the fields in the **Security** tab of **Profile Management** to configure the profile. To define the security mode, select the radio button of the desired security mode. Make sure to also edit the **General** and **Advanced** tabs.

WPA	Enables the use of Wi-Fi Protected Access (WPA).
	Choosing WPA opens the WPA EAP drop-down menu. The options include:
	 EAP-TLS EAP-TTLS PEAP (EAP-GTC)
	 PEAP (EAP-MSCHAP V2) LEAP
WPA Passphrase	Enables WPA Passphrase security. Click on the Configure button and fill in the WPA Passphrase .
802.1x	Enables 802.1x security. This option requires IT administration.
	Choosing 802.1x opens the 802.1x EAP type drop-down menu. The options include:
	EAP-TLSEAP-TTLS
	 PEAP (EAP-GTC) PEAP (EAP-MSCHAP V2) LEAP
	If the access point that the wireless adapter is associating to has WEP set to Optional and the client has WEP enabled, make sure that Allow Association to Mixed Cells is checked on the Security Tab to allow association.
	Enables the use of pre-shared keys that are defined on both the access point and the station.
	To define pre-shared encryption keys, choose the Pre-Shared Key radio button and click the Configure button to fill in the Define Pre-Shared Keys window.
	If the access point that the wireless adapter is associating to has WEP set to Optional and the client has WEP enabled, make sure that Allow Association to Mixed Cells is checked on the Security Tab to allow association.
None	No security (not recommended).

Advanced Tab

In the Utility, access the Advanced tab by clicking New or Modify on the Profile Management tab, then clicking the Advanced tab in Profile Management.

Transmit Power Level	Power Save Mode:	Normal	
802.11b/g: 100 mW 💉	Network Type:	Infrastructure	
802.11a: 40 mW	802.11b Preamble:	Short & Long	🔘 Long Only
Wireless Mode 2.4 GHz 54 Mbps 2.4 GHz 11 Mbps	Vireless Mode Whe	n Starting Ad Hoc Ne Mbps Channe	
🗹 Super G			
802.11 Authentication Mode		F	Preferred APs

Edit the fields in the **Advanced** tab of **Profile Management** to configure the profile. Make sure to also edit the **General** and **Security** tabs.

	Selects the transmit power level for 80211b/g or 802.11a in mW. Actual transmit power may be limited by regulatory domain or hardware limitations.
Power Save Mode	Specify: Maximum mode causes the access point to buffer incoming messages for the wireless adapter. The adapter up periodically polls the access point to see if any messages are waiting. Normal uses maximum when retrieving a large number of packets, then switches back to power save mode after retrieving the packets. Off turns power saving off, thus powering up the wireless adapter continuously for a short message response time.
Network Type	Specifies the network as either infrastructure (access point mode) or ad hoc.
802.11b Preamble	Specifies the preamble setting in 802.11b. The default setting is Short & Long (access point mode), which allows both short and long headers in the 802.11b frames. The adapter can only use short radio headers if the access point supports and uses them. Set to Long Only to override allowing short frames.
Wireless Mode	Specifies 5GHz 54 Mbps, 2.4 GHz 54 Mbps, 2.4 GHz 11 Mbps, or Super A/G operation in an access point network. The wireless adapter must match the wireless mode of the access point it associates to.
when Starting an	Specifies 5GHz 54 Mbps, 5GHz 108 Mbps, or 2.4 GHz 54/11 Mbps to start an ad hoc network if no matching network name is found after scanning all available modes. This mode also allows selection of the channel the wireless adapter uses. The channels available depend on the regulatory domain. If the adapter finds no other ad hoc adapters, this selection specifies which channel with the adapter starts the ad hoc network with.

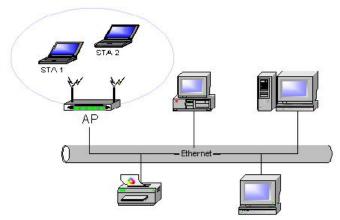
	The wireless adapter must match the wireless mode and channel of the clients it associates to.
Authentication Mode	Select what mode the wireless adapter uses to authenticate to an access point: Auto causes the adapter to attempt authentication using Shared , but switches it to open authentication if Shared fails. Open enables an adapter to attempt authentication regardless of its WEP settings. It will only associate with the access point if the WEP keys on both the adapter and the access point match. Shared only allows the adapter to associate with access points that have the same WEP key.

Note

The Utility only allows the creation of 16 configuration profiles. After the creation of 16 profiles, clicking the **New** button displays an error message. Remove an old profile or modify an existing profile for a new use.

Infrastructure (Access Point) Mode

In infrastructure (access point (AP)) mode, the wireless network adapter participates in a basic service set (BSS) as a station, and communicates with the other stations through an AP, as illustrated here.



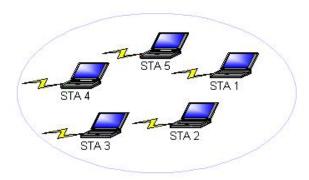
Infrastructure (Access Point) Mode Profile Configuration

To configure a profile in infrastructure (access point) mode, change the Network Type in the **Advanced** tab. For access point mode, modify the settings:

- Transmit Power Level
- Power Save Mode
- 802.11b Preamble (if using 802.11b)
- Wireless Mode
- 802.11a Authentication Mode (if using 802.11a)

Ad Hoc Mode

In ad hoc mode, a wireless network adapter works within an independent basic service set (IBSS), as illustrated here. All stations communicate directly with other stations without using an access point (AP).



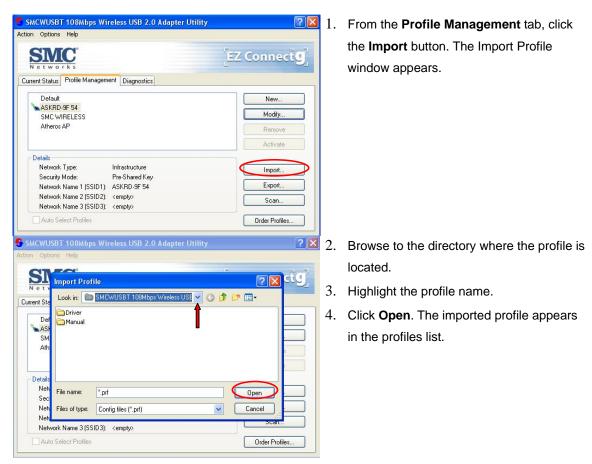
Ad Hoc Mode Profile Configuration

To configure a profile in ad hoc mode, change the **Network Type** in the **Profile Management**'s **Advanced** tab. For ad hoc mode, modify the settings:

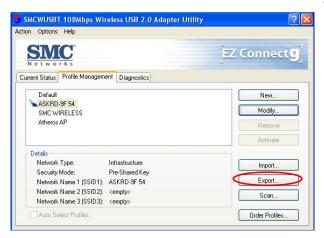
- Network Name (on General Tab)
- Transmit Power Level
- **8**02.11b Preamble (if using 802.11b)
- Wireless Mode When Starting an Ad Hoc Network

Import and Export Profiles

Importing a Profile



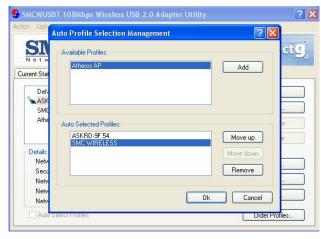
Exporting a Profile



 From the <u>Profile Management</u> tab, highlight the profile to export. Click the Export button. The Export Profile window appears.

	ns Help			
SI	Export Profi	le	17	? 🛛 cť
rent Sta	Save in: 🚞	SMCWUSBT 108Mbps Wire	less USE 🚽 🔇 🧊 🛛	🤊 🛄 •
Def	Driver		Î	
ASI	C Manual		•	
SM				
Ath				e
Details	File name:	ASKRD-9F 54	(Save
Net	r lie ridnie.			
Nett Sec		C		
Net	Save as type:	Config files (*.prf)	~	Cancel

- 2. Browse to the directory to export the profile to.
- 3. Click Save. The profile is exported to the specified location.



- **2** I. Highlight a profile in the **Auto Selected** Profiles box.
 - 2. Click Move Up or Move Down as appropriate. The first profile in the Auto Selected Profiles box has highest priority, and the last profile has lowest priority.
 - 3. Click OK.
 - Check the Auto Select Profiles box. 4.
 - 5. Save the modified configuration file.

When auto profile selection is enabled by checking Auto Select Profiles on the Profile Management tab, the client adapter scans for an available network. The profile with the highest priority and the same SSID as one of the found networks is the one that is used to connect to the network. If the connection fails, the client adapter tries the next highest priority profile that matches the SSID, and so on.

With auto profile selection enabled, the wireless adapter scans for available networks. The highest priority profile with the same SSID as a found network is used to connect to the network. On a failed connection, the client adapter tries with the next highest priority profile.

Order Profiles

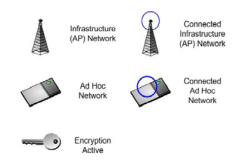
Scan Available Networks

Click the **Scan** button on the **Profile Management** tab to scan for available infrastructure and ad hoc networks. On this list, click **Refresh** to refresh the list at any time.

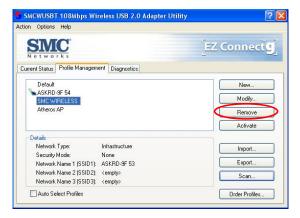
SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility	? 🛛	-	SMCWUSBT 108Mbps Wire	eless U	SB 2.0 Adap	ter Utility		? ×
Action Options Help		Acti	on Options Help					
SMC Networks	EZ Connect	٨	vailable Infrastructure a	nd Ad H	loc Network	5		? 🔀
Current Status Profile Management Diagnostics			Network Name (SSID)	¢9	Signal Stren.	. Channel	Wireless Mode	~
		ſ	1 G_1		5 dB 21 dB 32 dB 11 dB	1	2.4 GHz 54 Mbps	
Default	New		👗 itnet		🎽 21 dB	1	2.4 GHz 11 Mbps	
ASKRD-9F 54	Modify		1		🚆 32 dB	2	2.4 GHz 54 Mbps	
SMC WIRELESS Atheros AP	Remove Activate		L SMC		📙 11 dB	1	2.4 GHz 54 Mbps	
Details								
Network Type: Infrastructure	Import							
Security Mode: Pre-Shared Key	Emert							~
Network Name 1 (SSID1): ASKRD-9F 54	Export			A	ctivate	Refres	h OK	
Network Name 2 (SSID2): <empty></empty>	Scan							
Network Name 3 (SSID3): <empty></empty>			Network Name 3 (55ID3):	<empty></empty>				
Auto Select Profiles	Order Profiles		Auto Select Profiles				Order Pro	ofiles

Connecting to a different network

Highlight a network name and click the **Activate** button to connect an available network. If no configuration profile exists for that network, the **Profile Management** window opens to the **General** tab. Fill in the profile name and click **OK** to create the configuration profile for that network.



Remove a Configuration Profile



- 1. Go to the **Profile Management** tab.
- 2. Select the profile to remove from the list of configuration profiles.
- 3. Click the **Remove** button.

Diagnostics Tab

The Diagnostics tab of the Utility provides buttons used to retrieve receive and transmit statistics. The Diagnostics tab does not require any configuration.

The Diagnostics tab lists the following receive and transmit diagnostics for frames received by or transmitted by the wireless network adapter:

- Multicast frames transmitted and received
- Broadcast frames transmitted and received
- Unicast frames transmitted and received
- Total bytes transmitted and received

on Options Help		
SMC [*]		EZ Connect
urrent Status Profile M	anagement Diagnostics	
Transmit		
Multicast Packets:	12	Adapter Information
Broadcast	346	
Unicast Packets:	2037	Advanced Statistics
Total Bytes:	617838	
Receive		
Multicast Packets:	1593	
Broadcast	11327	
Unicast Packets:	404	
Total Bytes:	2484755	

Adapter Information Button

Click the **Adapter Information** button for more general information about the wireless network adapter and the network driver interface specification (NDIS) driver.

	ops Wireless USB 2.0 Adapter Utility	?
tion Options Help		
SMC. Networks		EZ Connect
Current Status Profile M	lanagement Diagnostics	
Transmit		Adapter Information
Multicast Packets:	12	Adapter Information
Broadcast	346	
Unicast Packets:	2037	Advanced Statistics
Total Bytes:	617838	
Receive		
Multicast Packets:	1593	
Broadcast	11327	
Unicast Packets:	404	
Total Bytes:	2484755	

The **Adapter Information** button contains general information about the network interface card (the wireless network adapter) and the network driver interface specification (NDIS) driver. Access the adapter information from the **Diagnostics** tab.

SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility	Card Name: The name of the wireless network adapter.
Action Options Hep Current St. Card Name: SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Mut Driver: D:WINXP\System32\DRIVERS\ar5523.sys Driver: D:WINXP\System32\DRIVERS\ar5523.sys	MAC Address: The MAC address of the wireless network adapter. Driver: The driver name and path of the wireless network adapter driver. Driver Version: The version of the wireless network adapter driver. Driver Date: The creation date of the wireless
Total Bytes: 2996758	network adapter driver. Client Name: The name of the client computer.

Advanced Statistics

Click the **Advanced Statistics** button on the **Diagnostics** tab to also show receive and transmit statistical information for the following receive and transmit diagnostics for frames received by or transmitted to the wireless network adapter:

SMCWUSBT 108Mbps Wireless USB 2.0 Adapter Utility	? 🔀	Advanced Statistics			? 🛛
Action Options Help		4 Transmit			
SMC	Tra Company	Frames Transmitted OK:	2634	RTS Frames:	0
- Sala	EZ Connect	Frames Retried:	402	CTS Frames:	0
Networks		Frames Dropped:	198	No CTS Frames:	0
Current Status Profile Management Diagnostics		No ACK Frames:	0	Retried RTS Frames:	0
		ACK Frames:	2634	Retried Data Frames:	402
Transmit					
Multicast Packets: 12	Adapter Information	A second second			
Broadcast 346		Receive			
Unicast Packets: 2037	Advanced Statistics	Beacons Received:	0	Authentication Time-Out:	0
Total Bytes: 617838		Frames Received OK:	25548	Authentication Rejects:	0
Total bytes. 011000		Frames Received with Errors:	0	Association Time-Out:	0
Receive		CRC Errors:	5658	Association Rejects:	0
Multicast Packets: 1593		Encryption Errors:	0	Standard MIC OK:	0
Broadcast 11327		Duplicate Frames:	11	Standard MIC Errors	Ő
Unicast Packets: 404		AP Mismatches:	0	CKIP MIC OK:	Ő
Total Bytes: 2484755		Data Rate Mismatches:	0	CKIP MIC Errors:	0
					ОК

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.com

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http://www.smc.com/index.cfm?action=tech_support_drivers_downloads

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http://www.smc.com

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Spain:	34-91-352-00-40	Fax 34-93-477-3774
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France:	33 (0) 41 38 32 32	Fax 33 (0) 41 38 01 5
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