User's Manual

For

SCP-500

Version 1.0_alpha

Sewon Telecom Ltd.

Copyright Notice

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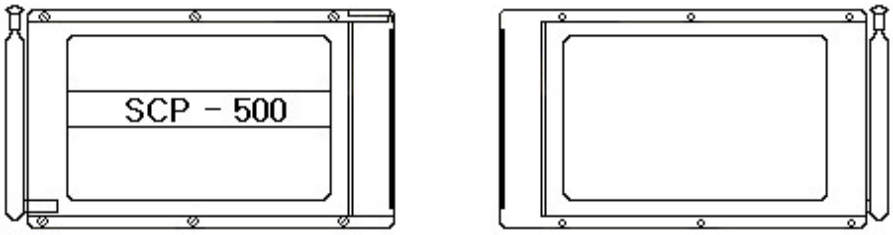
1. Getting Started

1.1 About the Product

SCP-500 ® utilizes CDMA 1xRTT technology, enabling wireless data communication. *BlueWing* ® is the Windows application that enables the user to send and receive e-mails, and fax as well as surf the Internet from anywhere using *SCP-500* ®. The PCMCIA Card ensures easy portability and wide compatibility with laptop and portable computers equipped with a PCMCIA Card slot and a Windows Operating System.



1.2 About the Service

The *SCP-500* ® works similar to other wireless handheld phones where a connection with a Wireless Service Provider is necessary. Service and connection depends upon the availability of a Service Provider in the region.

Additionally, an appropriate Service Provider must activate the service before the Card can make the connection. During the Setup, you will be prompted to activate the service.

1.3 About the BlueWing

The BlueWing ® software is required for use with the Sewon Wireless Modem. Run the Setup.exe from the CD-ROM provided, to install the software. You must always run BlueWing® while using the Wireless Modem to:

- Connect to the Internet
- Use e-mail
- Check your connection status, i.e. signal strength

1.4 About the PCMCIA SCP-500®

The hardware consists of a PCMCIA Type II Card and flip-type antenna. The PCMCIA Card requires Plug and Play capable OS such as Windows 98, Windows 2000, Windows ME, or Windows XP

CAUTION: Insert the Modem into a PC Card slot after installing the software first.

1.5 The Difference between a Wireless Modem and a Landline Modem

The Wireless Modem is slightly different than a Landline Modem, in that Wireless connection is not always available. Landline Modem, which connects to the telephone line, is guaranteed almost uninterrupted connection. However, connectivity to a wireless modem depends greatly on the availability of service in a particular region, the number of subscribers connected to the service, signal strength, etc. To make a connection to data service or the Internet, you must check to see if there is service available. A tiny LED on the side of the Modem Card indicates that you have acquired. To maximize the signal strength, make sure to pull out the antenna completely and point it in an upright position. Avoid touching it during the connection.

1.6 Windows Dial-up Networking and BlueWing

The Windows Dial-up Networking is a component of Windows that is required to make a connection through any modem, including a Wireless Modem. If you have another modem already installed on your PC, Dial-up Networking is most likely configured already.

1.7 Customer Call Support Number

If you are experiencing problems or have questions regarding your SCP-500 ®, please call **Support Line** or visit the Web site at www.sewon-tele.com(TBD).

2. Installation

2.1 Hardware and OS Requirements

Hardware System Requirements

Before installing the software, ensure that your PC meets the following hardware and OS requirements.

Modem Manager Operating System Requirements

Modem Manager is supported with:

- Windows 98 and 98 SE
- Windows ME
- Windows 2000
- Windows XP

Card Slots:	1 Type II PCMCIA (PC Card Slot)
Communication Ports	1 available
Disk Drive	CD-ROM
I/O Resources	2 IRQ
Memory	32 MB
Disk Space	5 MB

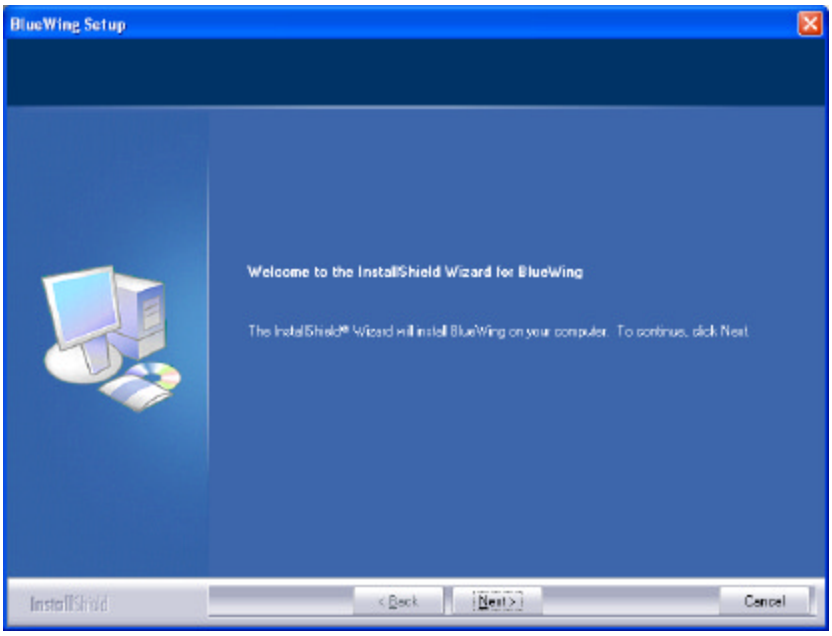
2.2 Installing BlueWing

Make sure to install the software before inserting the modem into the laptop. If you are using Windows 2000 or XP, you must be logged on as the administrator to install the software.

When you insert the CD, installation software should begin automatically. If not, open the CD-ROM directory and double click on Setup.exe. After choosing to install the modem software for Windows 98/ME/2000/XP, the setup application for BlueWing® software begins.

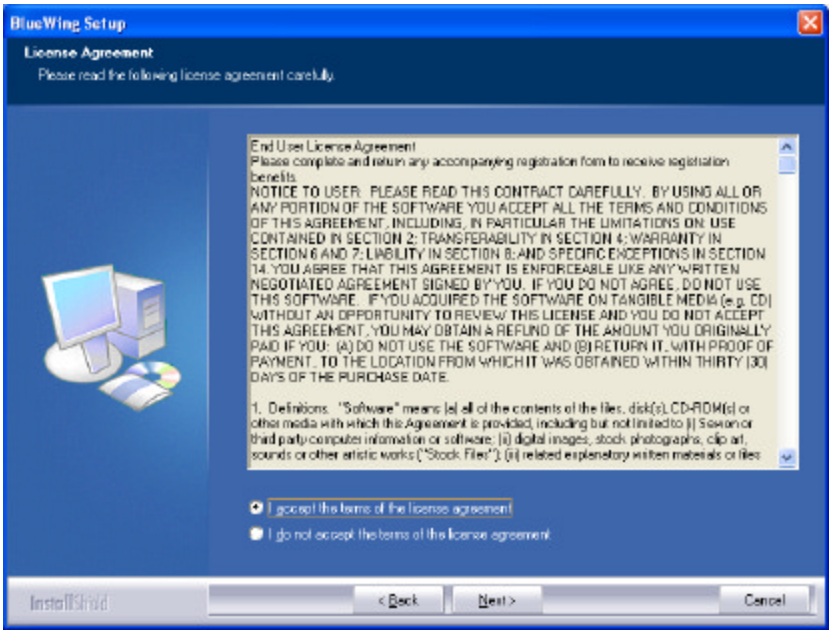
Follow the on-screen instruction to complete the installation. Click **NEXT** to proceed to next steps.

1. Welcome screen



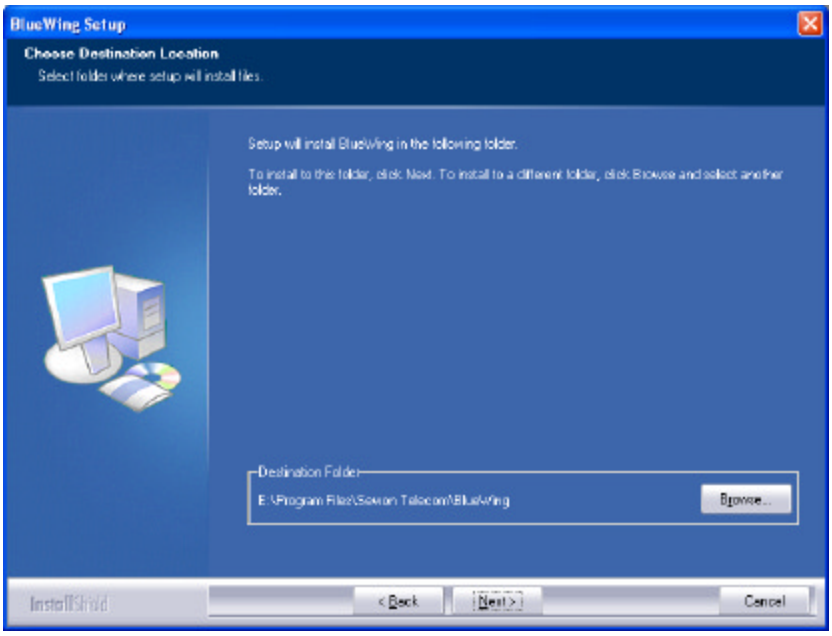
Picture a. Install (Welcome)

2. License Agreement



Picture b. Install (License)

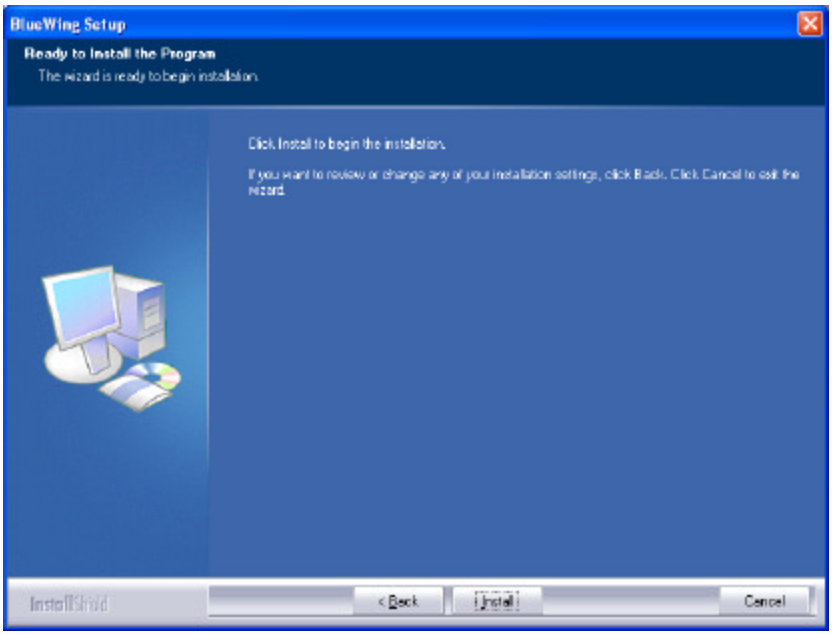
3. Location to install software files.



Picture c. Install (Location)

Setup asks you for the following. You can accept the default or change. It is recommended that you accept the default information.

4. Completed



Picture d. Install (completed)

When completed, the PC must be restarted. **Do not insert the card before completing installation and re-starting.**

When the PC is re-started, insert the PCMCIA card into the slot as below.

When inserting or removing your CDMA card, grip the card by both of its sides.

Raise the antenna as above picture

2.3 Hardware and Drivers

2.3.1 Inserting the PCMCIA *SCP-500*® right after software installation

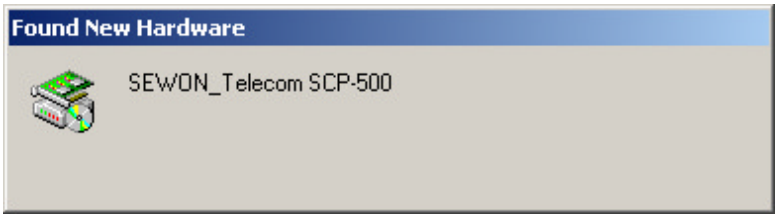
Insert the *SCP-500*® into an empty PCMCIA card slot. When you insert the *SCP-500*® into the card slot for the **first time**, the following should occur:

Windows 98/ME

- The light on the PCMCIA *SCP-500*® should begin to flash.
- The PC should beep (unless sound is muted).
- Windows should indicate that a new device has been detected.
- Windows will search the driver for *SCP-500*®.
- Follow the on-screen instructions.
- If Windows fails to locate the driver and asks for a manual search, enter the driver directory from the CD-ROM: d:\, where (**d**) is the drive letter for the CD-ROM.
- You may have to restart the Windows.

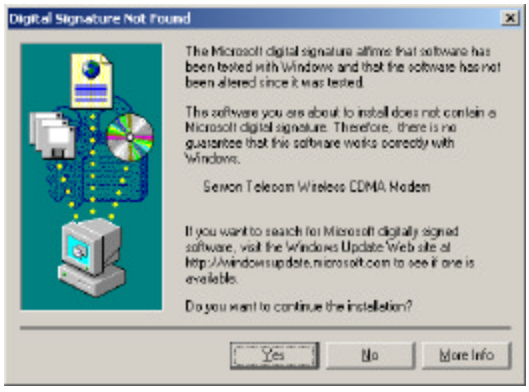
Windows 2000

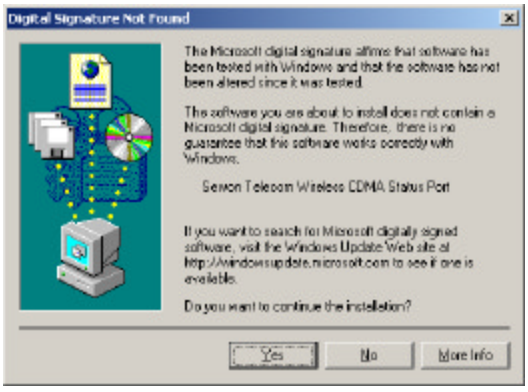
- The light on the PCMCIA *SCP-500*® should begin to flash.
- The PC should beep (unless sound is muted).
- Windows should indicate that a new device has been detected.
-



Picture e. SCP-500

- Windows will search the driver for *SCP-500*®.
- Follow the on-screen instructions.

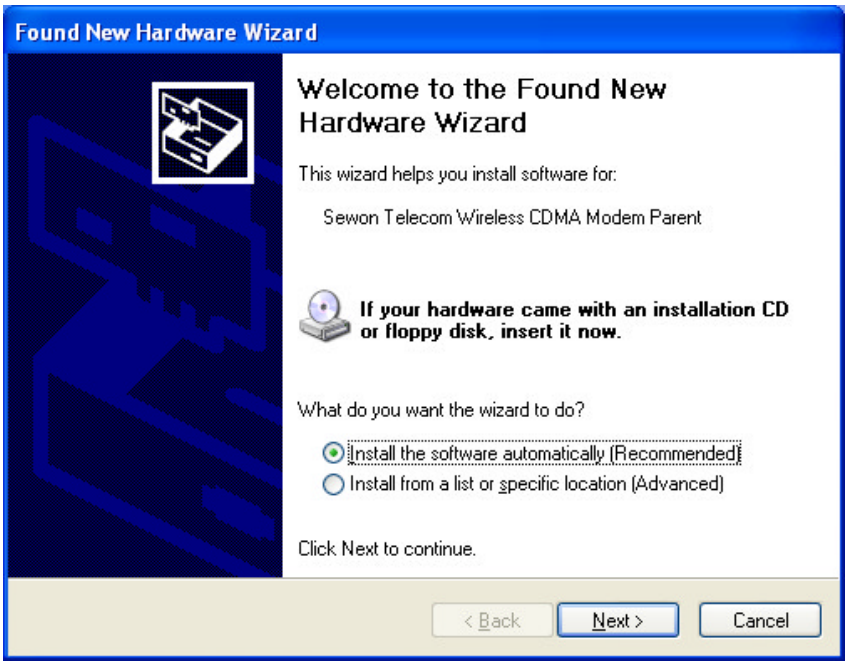




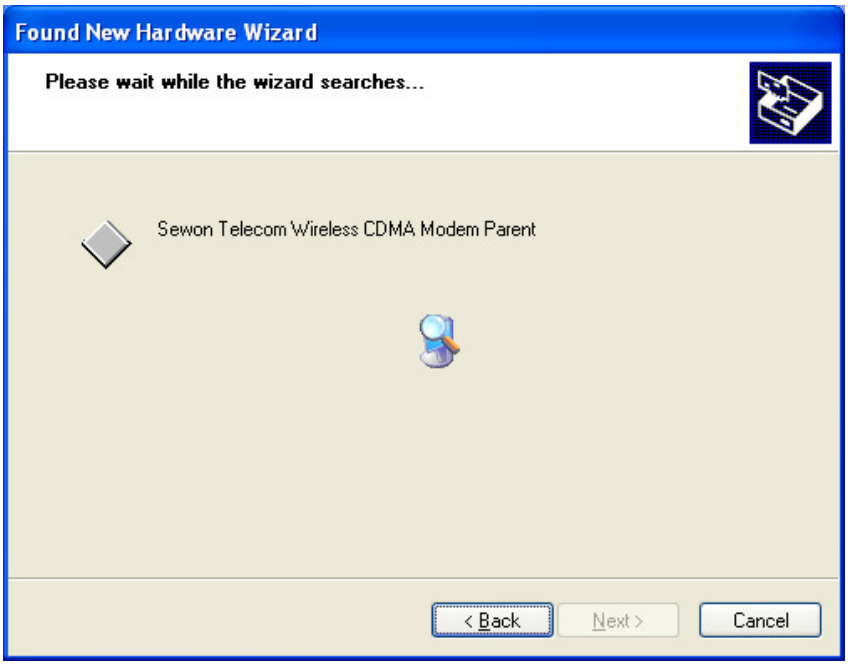
- If Windows fails to locate the driver and asks for a manual search, enter the driver directory from the CD-ROM: d:\, where (**d**) is the drive letter for the CD-ROM.
- You may have to restart the Windows.

Windows XP

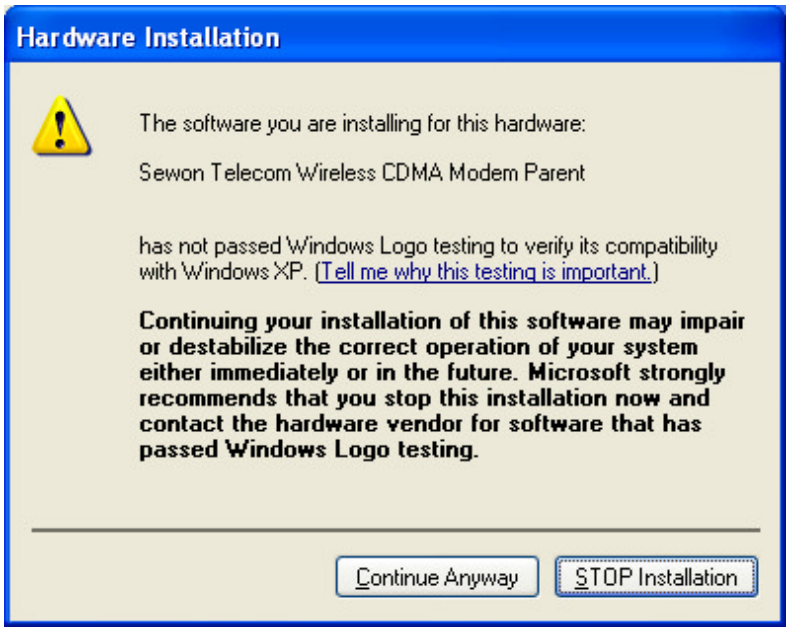
- The light on the PCMCIA *SCP-500*® should begin to flash.
- The PC should beep (unless sound is muted).
- Windows should indicate that a new device has been detected.
- Windows will search the driver for *SCP-500*®.
- Follow the on-screen instructions.



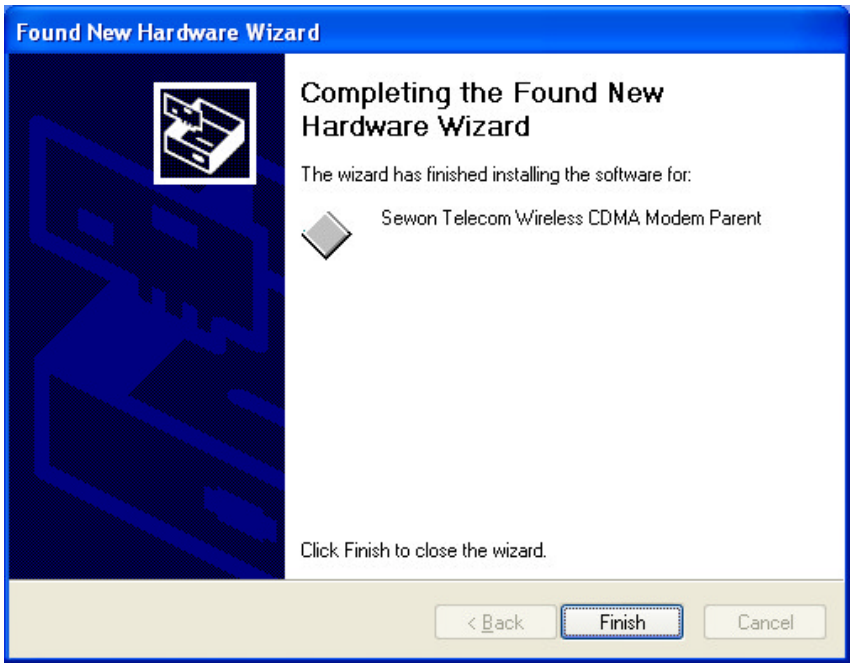
Picture f. Multifunction Driver



Picture g. Multifunction Driver

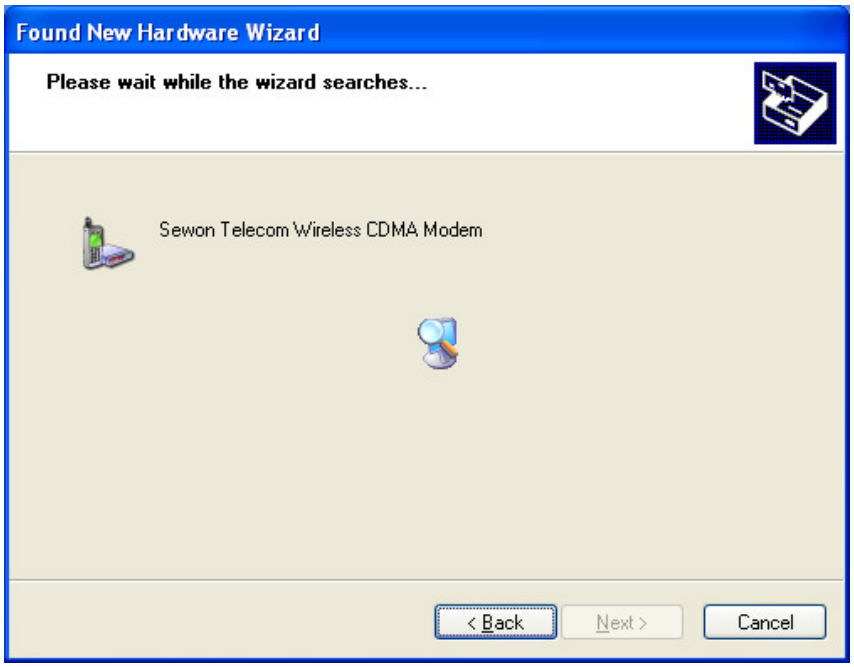


Picture h. Multifunction Driver

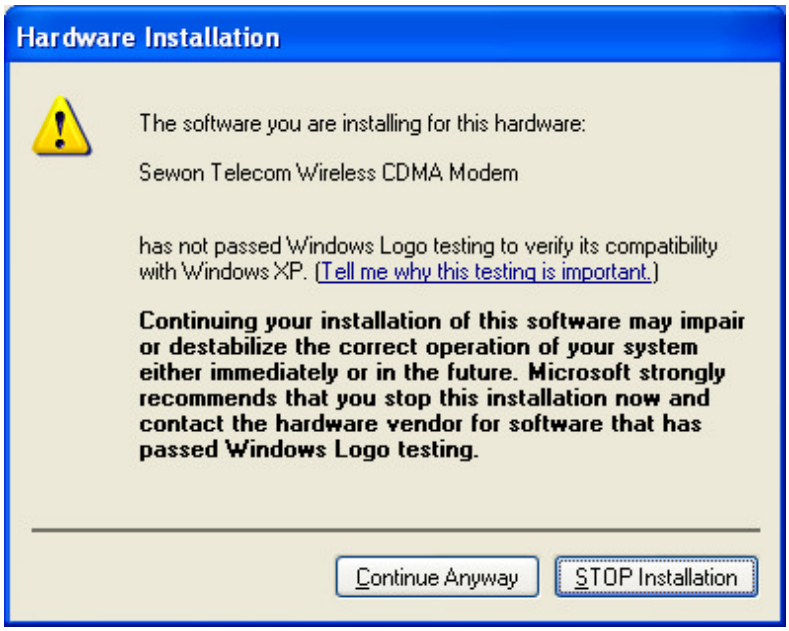


Picture i. Multifunction Driver

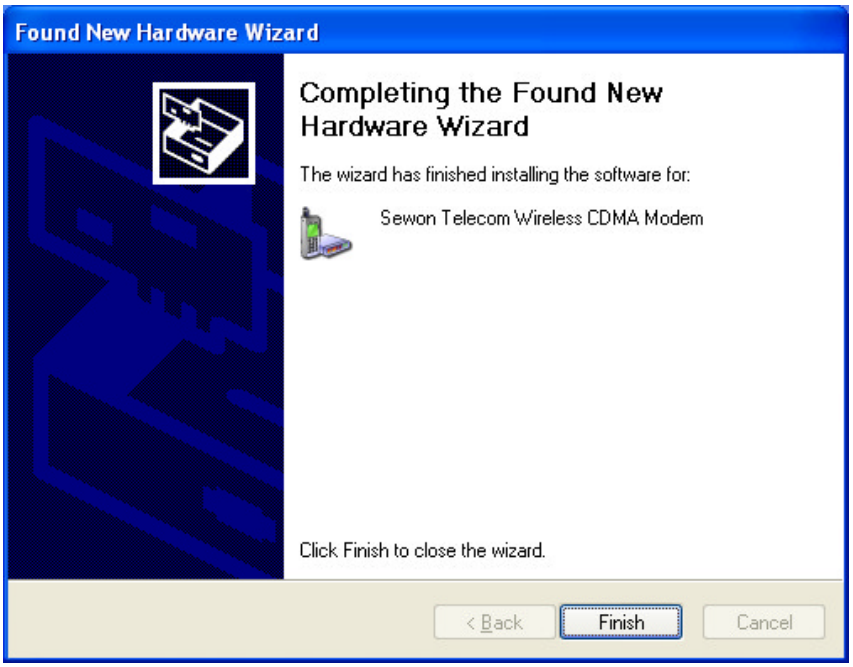
Picture j. CDMA Modem



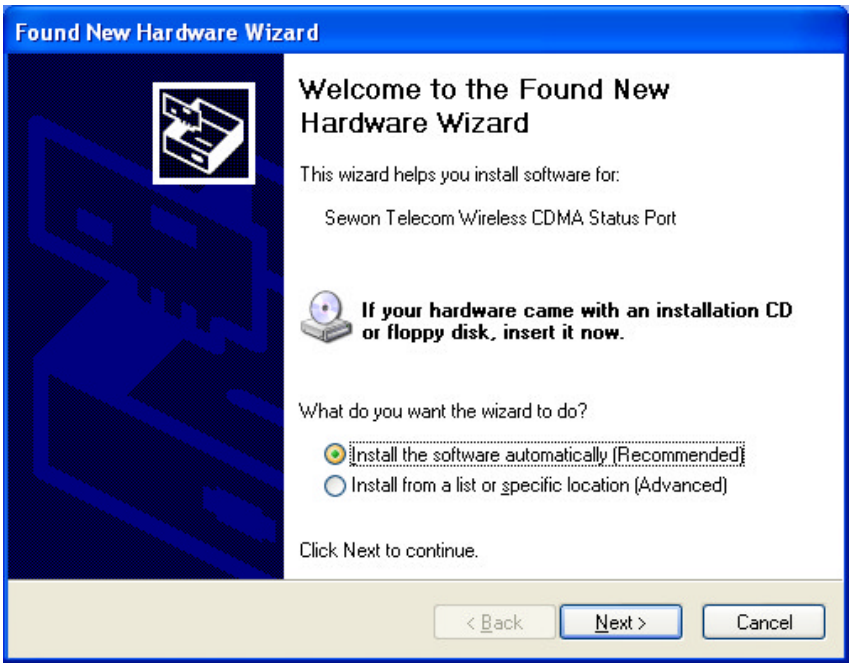
Picture k. CDMA Modem



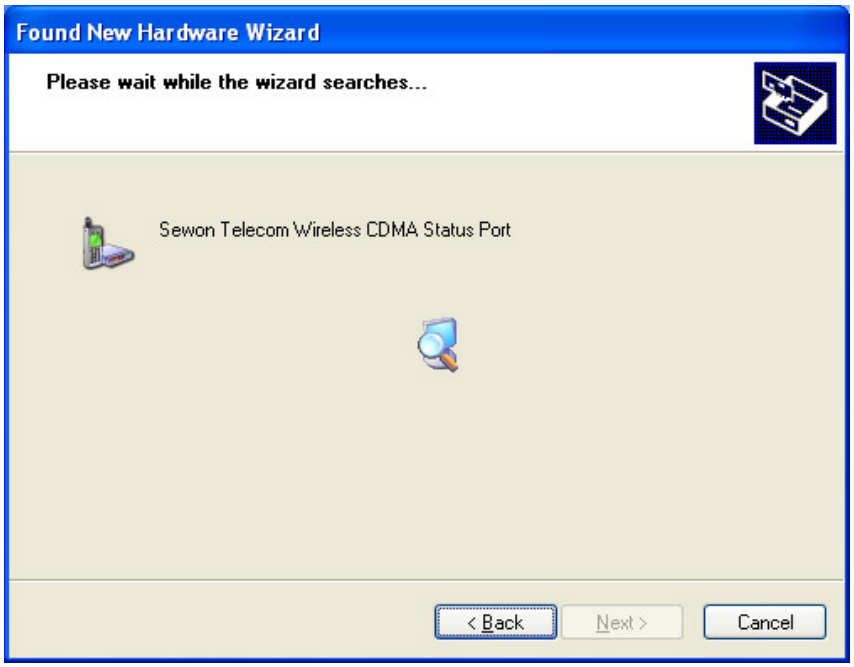
Picture l. CDMA Modem



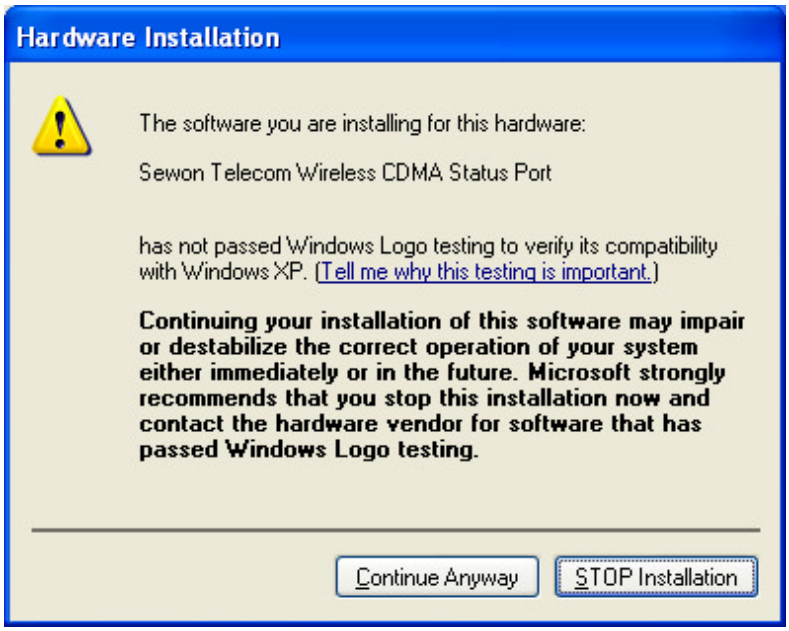
Picture m. CDMA Modem



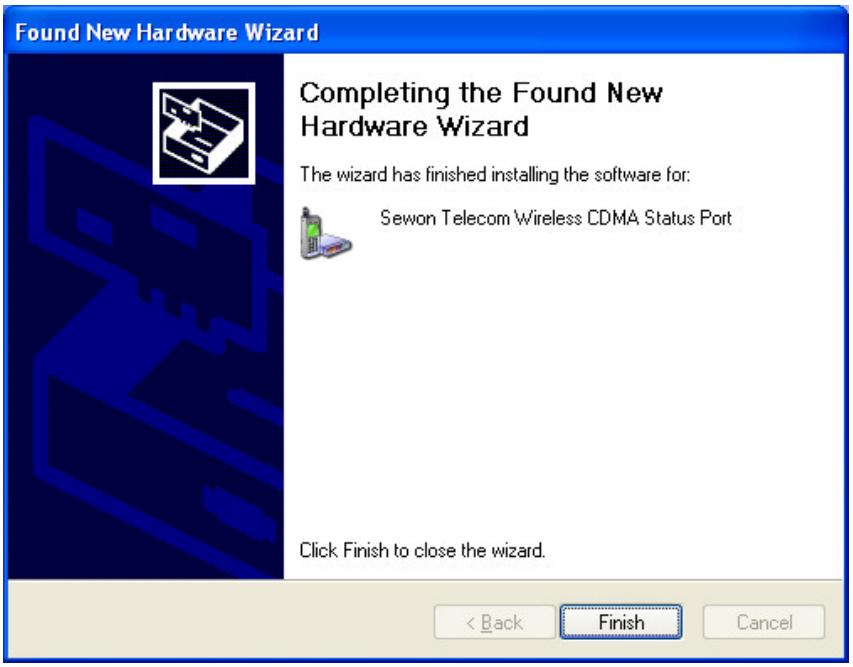
Picture n. CDMA Status Modem



Picture o. CDMA Status Modem



Picture p. CDMA Status Modem



Picture q. CDMA Status Modem

- If Windows fails to locate the driver and asks for a manual search, enter the driver directory from the CD-ROM: d:\, where (**d**) is the drive letter for the CD-ROM.
- You may have to restart the Windows.

2.3.2 Inserting the card after Hardware Installation for use

When you insert the card, the following should occur:

- The PC should beep.
- The PC Card Icon should appear in the System Tray (if it is not already displayed).
- You can verify proper insertion by double-clicking the PC Card Tray Icon.

3. Using the Hardware

3.1 Proper Care of the Hardware

Hard casing of the PCMCIA card and testing under various conditions ensure the durability of the *SCP-500*®. However, to prevent accidental damage, it is recommended following the guidelines listed below when using and storing your *SCP-500*®.

- Do not apply adhesive labels or stickers to the top or bottom of the PCMCIA card. This may cause the card to jam inside the card slot and unable to eject.
- Extend the antenna by first pulling out and twisting into an upright position. Do not force the antenna in the wrong direction; it can cause permanent damage to the antenna joint.
- The best reception is when the antenna is in an upright position.
- When the *SCP-500*® is not in use, fold and lock the antenna in the proper position. First, twist the antenna into a parallel position with the card. Next, push the knob on the antenna into the small hole on the left side of the card until it clicks.
- The *SCP-500*® should snap easily into your PC slot. Always insert the card with the logo facing up. Do not force the Card in the slot; this may cause damage to the pins in the PCMCIA socket.
- Keep the Card away from any liquids, dust, and/or excessive heat.
- When not installed in your PC, store the *SCP-500*® in a safe place. Do **NOT** store the Card in your wallet or pockets.

3.2 Proper Insertion and Removal

Proper insertion and removal of the PCMCIA Card prevents accidental damage to the integrity of the Windows System as well as to the hardware.

To safely insert the PCMCIA Card, follow the guidelines below:

1. The *SCP-500*® should fit easily into your PC slot. Always insert the Modem with the logo side facing up or towards you. Do not force the Card into the slot.
2. LED on the side should begin to flash on the *SCP-500*®.
3. If the computer is turned on, the PC should beep when the card is inserted. If the Windows volume is muted, you may not hear any sound.
4. When the card is properly inserted, a PCMCIA card Icon should appear on the System Icon Tray area unless the feature is turned OFF in the Windows Control Panel.

To safely remove the PCMCIA Card, follow the guidelines below:

1. If the BlueWing application is opened, close the application first.
2. Click the **PCMCIA Card Icon** in the System Tray. A Message Bar will appear.
3. Click the **Sewon Telecom Wireless CDMA Modem** from the list. A Dialog Box will notify you that it is safe to remove the device.
4. Click **OK** and eject the Modem.

3.3 About the Antenna

The antenna is used for transmitting and receiving signals to the Service Tower in your area. Please follow the guidelines below for optimal signal reception and safety.

1. When in use, make sure that the antenna is pulled out and twisted into an upright position.
2. Do not touch the metallic part of the antenna. Always handle the antenna by holding the plastic section.

4. Using the BlueWing

4.1 Overview

Utilizing the BlueWing® is required when operating the PCMCIA *SCP-500*®. It provides the User with the following features:

- Diagnostic and configuration of *SCP-500*® options (Authorized Service Personnel only)
- Feedback about the status and operation of the modem
- Connecting to the data service, i.e. Internet ISP

The *SCP-500*® will turn on only when the *BlueWing*® application is running, whether in the background or as an active window. Whenever the BlueWing® is running, a small icon will appear in the Windows System Icon Tray, located in the lower right-hand corner of the taskbar, next to the clock.

The BlueWing® can be used only when the Card is installed and inserted into the PCMCIA slot. When the Card is not inserted or installed, a warning message appears.

4.2 System Tray Icon

4.2.1 Icons

Depending on the status of the card, the icon will change as outlined in the following table.

Status(description)	*Icon*
No card is detected	
No service	
In service	
Card is connecting data call	
Card is detected and a data session is currently established	

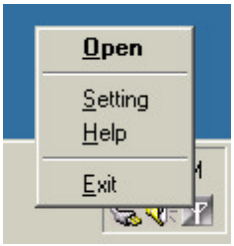
If the tray icon is open and the main window is hidden, you can open the main window by re-launching the application by double-clicking or right-clicking on the System Tray icon.

4.2.2 Tool Tips

When you leave the mouse pointer over the icon for approximately one second, a small tool tip appears and displays the status of the *SCP-500*®.

4.2.3 Pop-up Menu

When you **right-click** the System Tray Icon, a popup menu appears displaying the following menu items:



- **Open :** opens or shows the *BlueWing*® when it is hidden or closed.
- **Setting :** shows the *BlueWing*® setting dialog
- **Help :** execute the *BlueWing*® help.
- **Exit :** closes the BlueWing® and removes itself from the system tray. It also disconnects all data services and turns off the *SCP-500*®.

Double-clicking the System Tray Icon is the same as **Open**.

4.3 BlueWing : Main Window

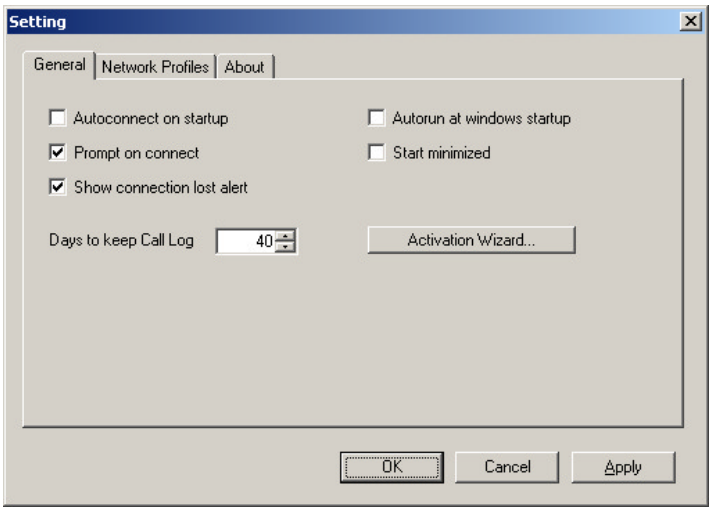
The Main Window provides access to the status of the *SCP-500*®, Data Service Connection, and Menu for accessing more features.

4.3.1 Connect Button

- The **CONNECT** button initiates a data service session, i.e. connecting to an Internet ISP. It automatically uses the default connection specified in the Windows Dial-up Networking (DUN). If there is no default connection specified, it opens the Connection Panel.

4.3.2 Settings Button

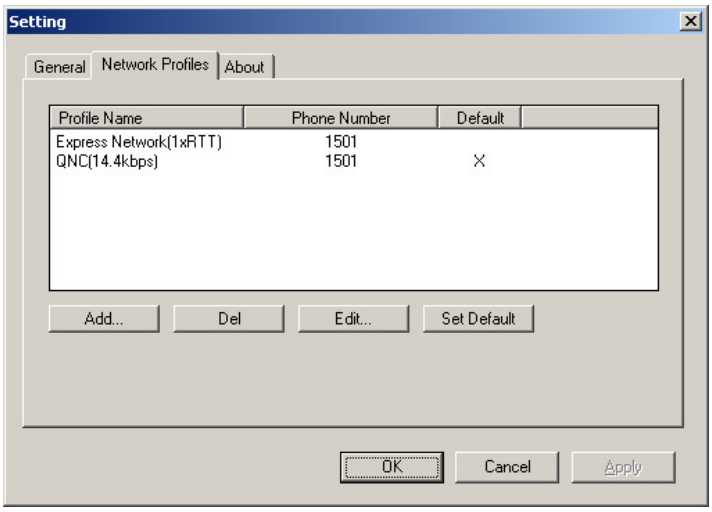
- The **SETTINGS** button allows you to customize the BlueWing. Once you click on this button a pop-up window with three tabs will appear as below



Picture r. General settings

The "Activation Wizard" button will guide you through the activation process. Refer to this toll, if the Bluewing still needs to be activated.

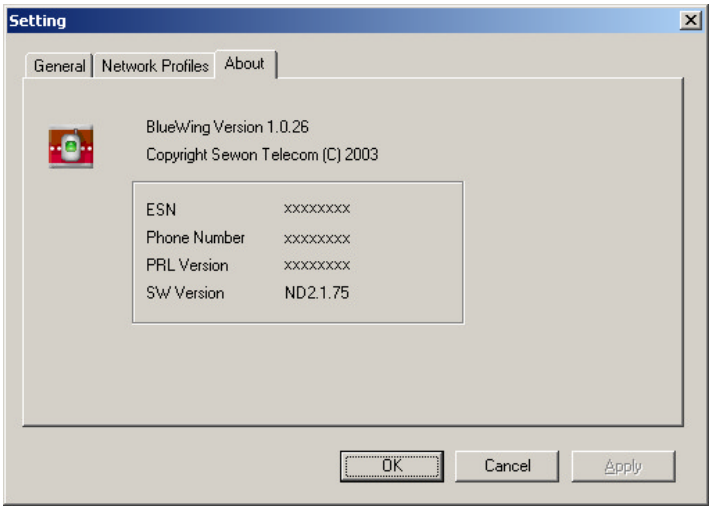
Option	***Choices***	***Description***
Auto connect on startup	On Off(default)	None of these options allows automatic placement of a data call upon BlueWing execution
Autorun at windows startup	On(default) Off	This default setting can be changed during installation
Prompt on connect	On(default) Off	
Start minimized	On(default) Off	
Show connection lost alert	On(default) Off	This option is check by default and it enables a pop-up window and audible alert



Picture s. Connection profile settings

This tab a summary of your connection profiles. The default Connection profiles for **Express Network**(1xRTT) and **QNC**(14.4Kbps) are created during installation and can neither be deleted or edited.

You have the option to add a new connection profile or edit an existing profile that you have created

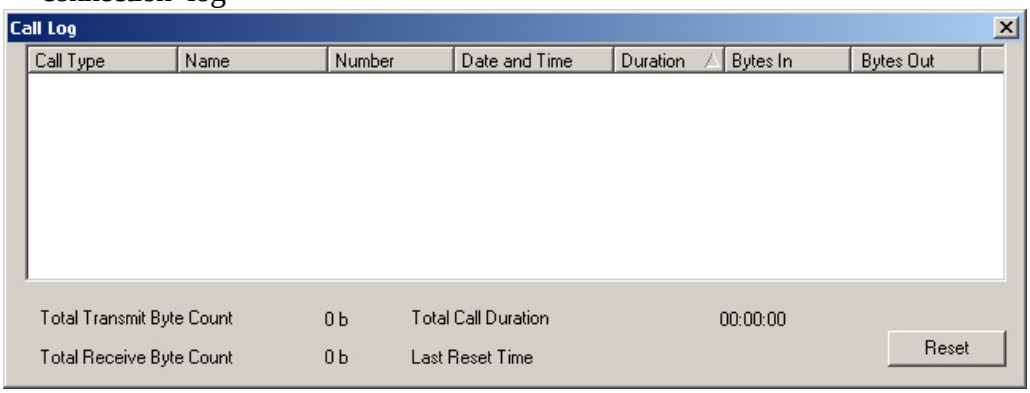


Picture t. About

4.3.3 Call log Button

- The **CALL LOG** button allows you to see the connection log.

connection log



Picture u. Call log window

Call Type	Express Network QNC User's connection	Indicates the type of call initiated. Click on the Column name to sort by Call Type.
Name	text	From connection profiles list
Number	15 digit	Destination phone number or caller ID
Date and Time	YYYY MMM DD hh:mm am(or pm)	Date when the call was made. (MMM is the 3-character representation of the month). Time when the call is initiated. Click on the Column name to sort by Date and Time.
Duration	hh:mm:ss or mm:ss	Duration of the call
Bytes In		
Bytes Out		

4.3.4 Signal Strength Bars

- The Signal Strength Bars indicate the signal strength level of the connection to the Service Provider.
- The number of white (filled) bars is equivalent to a typical cellular phone.
- When there is no service available, all bars are gray. If there is no service available, you cannot make a connection for the data session

4.3.4 Status Window

The Status Area displays status and information regarding the SCP-500 status.

Modem related information

- Please insert card

Service related information

- No Service
- In Service, Roaming or Home Service Area
- Dialing, Call Dropped, Call Failed, Voice Call
- In Traffic

Windows Dial-up Networking related information

- Connected
- Disconnected
- Opening the port
- Connecting to the device
- Verifying the User's name and password
- Registering your computer on the network
- Etc.

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Safety Information

1 . SAFETY INFORMATION FOR FIXED WIRELESS TERMINALS

.POTE NTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cauls e an explosion or fire resulting in bodily injury or even death.

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INTERFERENCE TO MEDICAL DIVICES

Certain electronic equipment may be shielded against RF signal from you wireless phone. (pacemakers, Hearing Aids, and so on)
Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so.
RF signals may affect improperly installed or inadequately shielded electronic system in motor vehicles.

.EXPOSURE TO RF ENERGY

Use only the supplied or an approved replacement antenna.
Do not touch the antenna unnecessarily when the phone is in use.
Do not move the antenna close to, or touching any exposed part of the body when making a call.

SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT 'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and anufactured not to exceed the emission limits for exposure to radio frequency (RF)energy set by the Federal Communications Commission of the U.S.Government.These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluate on of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.*Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure.

The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when worn on the body, as described in this user guide, is **1.110 W/kg**. (Body worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov / oet / fccid after searching on **FCC ID : PFZSCP-500.**

Additional information on Specific Absorption Rates (SAR)can be found on the Cellular Telecommunications &Internet Association (CTIA)web-site at http://phonefacts.net.*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6watts/kg (W/kg)averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any agitations in measurements.

FCC RF EXPOSURE INFORMATION

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

To comply with FCC RF exposure requirements, a minimum separation distance **of 11mm** must be maintained between the user/ bystander and the back of the unit, including the antenna.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

WARNING! Read this information before use

FCC Compliance Information

This device complies with Part 15 of 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.

Information to User

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 or more of the following measures:

- Reorient or relocate 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.

U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

INFORMATION TO THE USER

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.