

SXC-1280_NON RUIIM Wireless USB Modem Training

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Specification

Function	SXC-1280	Remark
Main Operation Chip	MSM 6025	
CDMA Standard	TIA/EIA/IS-2000, IS-98D, Backwards compatibility with IS-95 A/B	
Frequency Band of Operation	Cellular 800 Single Band Support Band Class 0 TX: 824 ~ 849 MHz RX: 869 ~ 894 MHz	
Transmit Power	200mW	
Power supply	USB Power	
Voice Support	SO 3 (8K EVRC), SO 32768 (13K)	
Ring tone choice	Support by PC dialer (selectable custom ring tone)	Default 10 ring tone supports, selectable custom ring tones
Secure tap proof connection	Possible	Digital Voice Privacy support from network required
LEDs	1 LED (3 colors, Modem/Memory)	
HW Reset	N/A	
Smart Volume control	Audio Auto Gain Control	
PRL/OTA support	IS-683A	Roaming (PRL Support) and Over the Air Service Provisioning (OTASP)
SMS	save the received 200 items(except PC saving)	
Phone book	save 200 items(except PC saving)	PC is default saving place.
Emergency and User care	E911 and Customer care service on Lock	PC is default saving place.
Antenna	Internal type	

Specification

Function	SXC-1280	Remark
Connector & Switches	Switch for changing between Modem and memory	
Interface Type	USB Connector	
Battery	N/A (PC Power)	
Installation	Connect PC or laptop via USB	
Dimension	W:28.7 ,D: 96.2 ,H: 10 (mm)	
Weight	Net: 23 g / Full Package: 75 g	
Case Material	ABS Plastic	
Operating environment	Operating temperature range: -10C to +50C Storage temperature range : -30C to +60C Humidity : 5% to 95%(non-condensing)	
PST Tools	EpiValley programmed PST/HEX downloader/ NAM editor/PRL editor.	
OS support	Plug and Play type (PC dialer installation)	Win XP, Win 2000 and Vista 32, 64bits (PC dialer) Linux within specific versions (Data driver only)
Special Function	Support USB Mass Storage(USB Memory)	
PC Dialer	Support Voice Call, SMS, Phone book, Call log, Internet Connection	
Others	Supports multi account log-in Supports multi network profile saving Supports accumulated internet log exporting	

- Speed mentioned is subject to Network conditions.

Parts of the USB Modem

Front View



Rear View



LED	Green	Yellow	Red
Normal	Good signal	Booting or Error	Memory storage status
Blinking	Data connecting	No signal	Using on memory storage

Side View



4

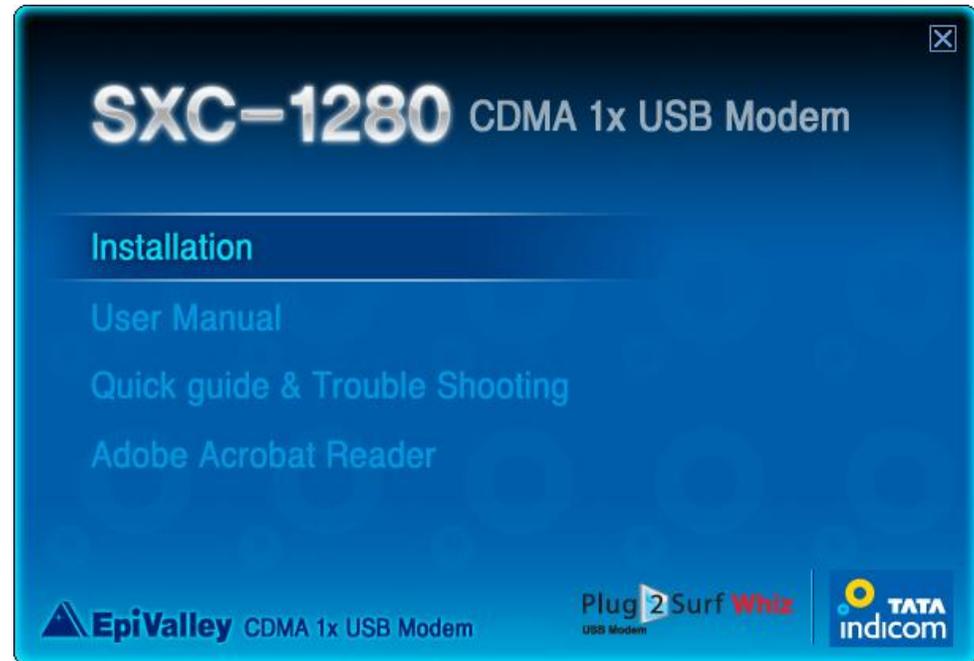
* The color of the products shown in this manual is the standard color and may be different from that of the products sold.

INSTALLING THE SXC 1280 NON UIM DEVICE

- For the first time when you use the modem device, connect the USB modem to the PC your system will detect it to a virtual CD drive and a memory disk drive, if it doesn't appear , please check LED color of your modem device. If it is green, press the LED button to switch the LED color to RED which is the Memory drive indicator. Once the virtual drive appears on the PC, Installation setup will pop up automatically. If it doesn't POP up please go to the virtual CD drive (VDISK) and launch it manually.

(AUTORUN.exe application could be disabled on some machines due to local IT policies, contact your system administrator in this scenario)

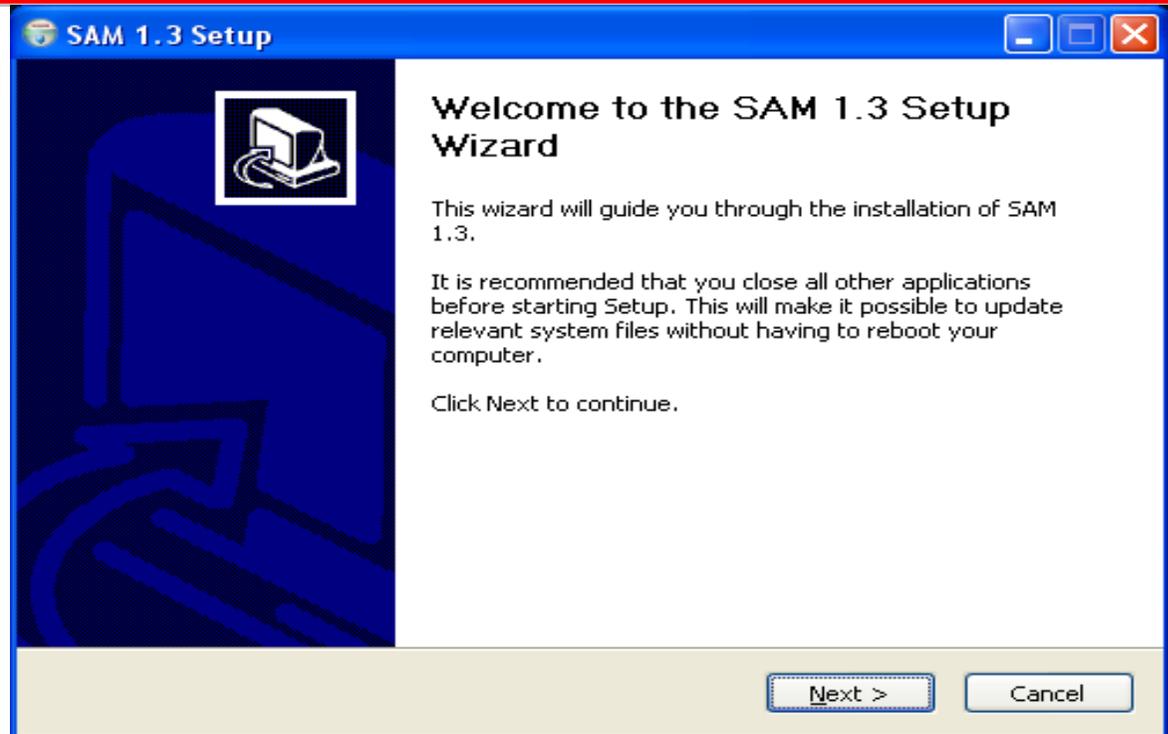
1. Click on **Installation** to start installation.



- **Important Note:** During the installation of the Modem Device if the Modem LED colour is Green it indicates that the device is in the modem mode, and the PC's OS will detect a NEW hardware and a **NEW HARDWARE FOUND** wizard will pop up if the device drivers are not installed previously, in this case please **CANCEL** the New Hardware Found Wizard and press the Green LED switch to change it to RED colour which is a memory drive indicator for Dialer installation wizard.

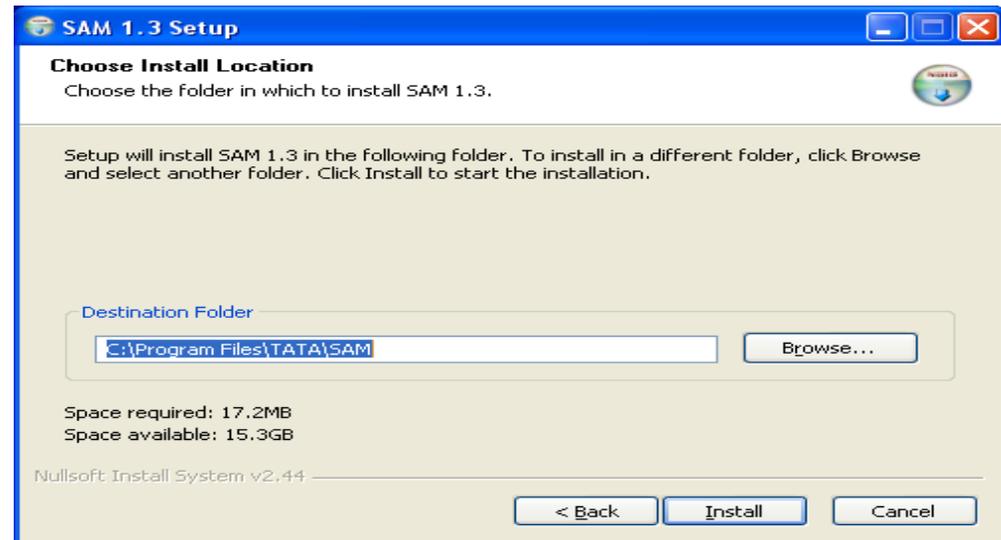


2. Click on **Next** to proceed

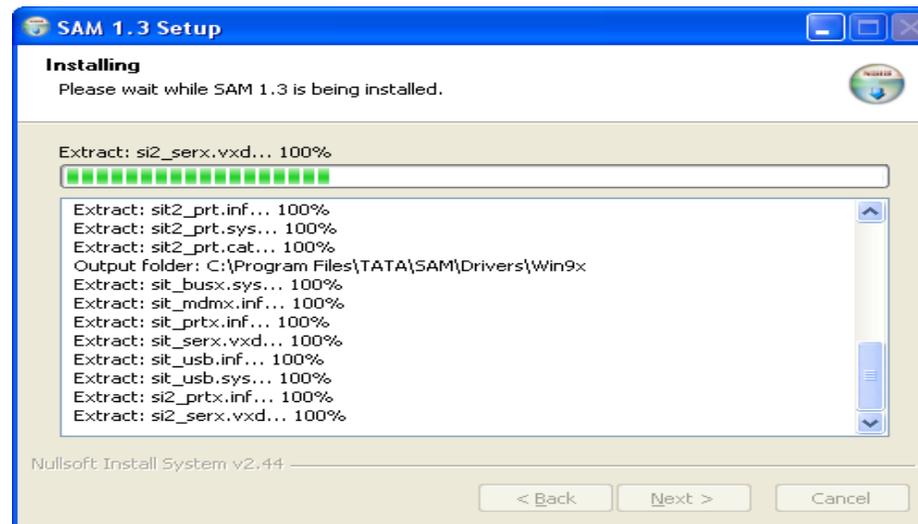


3. Default Installation directory is C:\Program Files\TATA\SAM , you can change it to the desired directory location by Pressing the **BROWSE** button

4. Click **INSTALL** to continue.

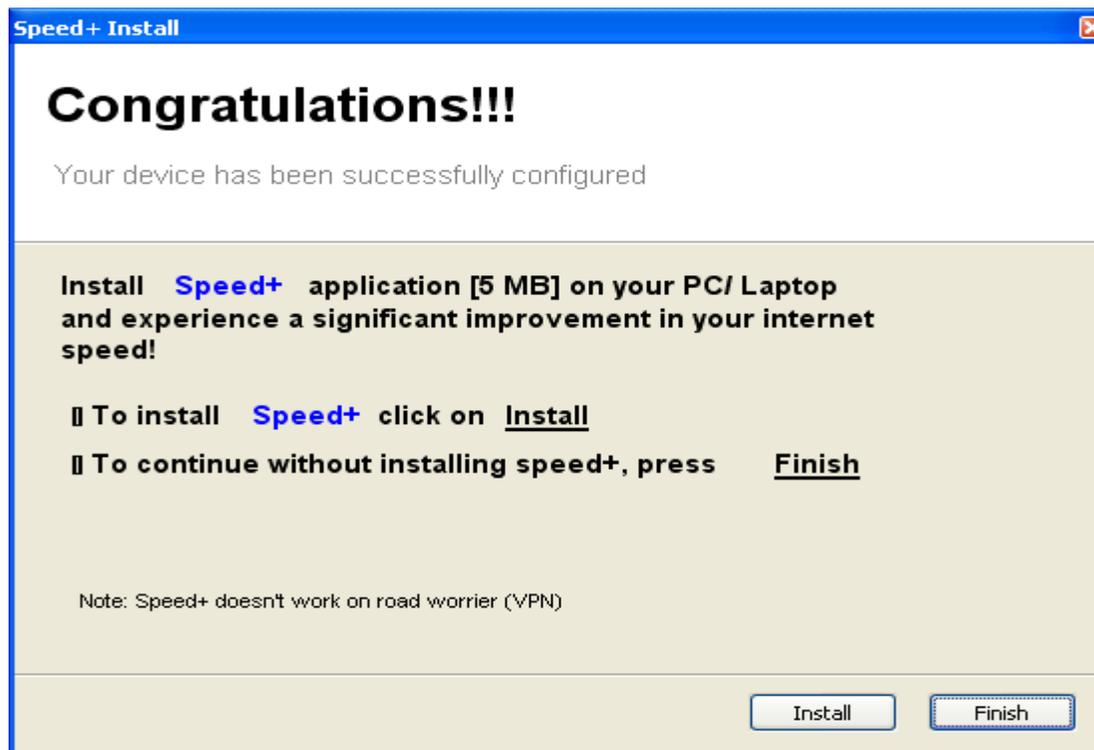


5. Installation will proceed as below :

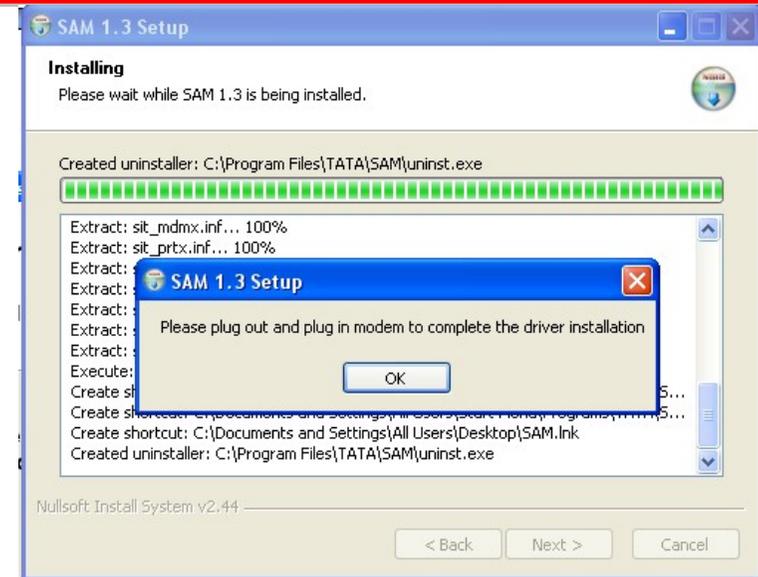


6. At this stage you will see a Installation dialogue as shown below :
7. Click on **Finish** to complete the installation without installing SPEED +
8. Click on **Install** to install SPEED+

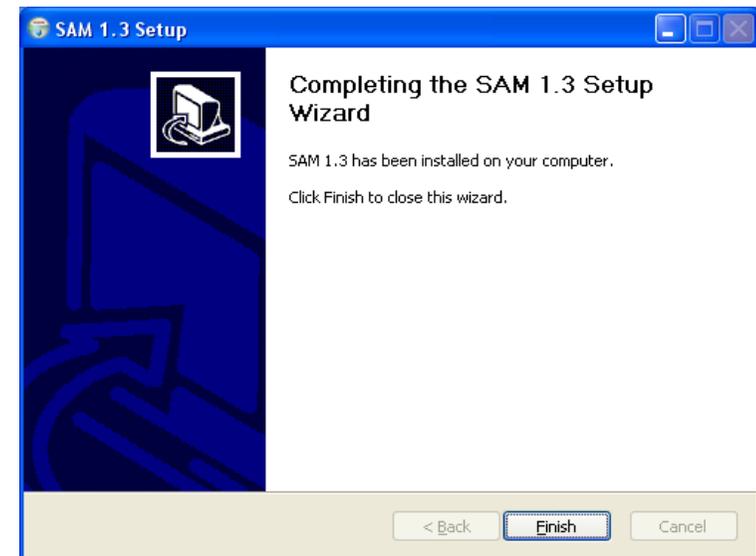
* **SPEED+ is an application to accelerate the internet browsing experience for the users.**



9. If you click on **Finish** to complete the installation without installing SPEED+ you will be prompted to plug out and plug in the modem.



10. Please do as instructed and click **OK** and **Finish** in the subsequent screens and complete the installation.



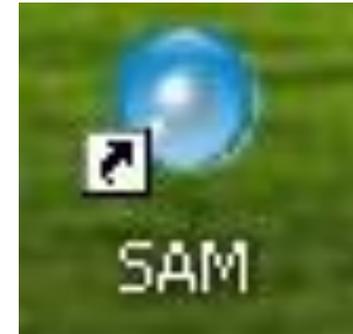
- **Important Note:** at this stage when the modem is removed and inserted again the mode of the modem will change from MEMORY mode (RED LED Light indication) to MODEM mode (GREEN LED light indication). You will observe that the device drivers are being automatically installed at this stage (Observe the System tray at the bottom right of the screen) and once done it will display “Your New hardware is installed and ready to Use”.



Till such time:

- **DO NOT** Launch / start the SAM dialer from desktop manually.
- **DO NOT** restart the desktop / laptop as on restart the SAM dialer will be launched automatically on windows start up and this might conflict with the driver’s installation of the status port.

11. Once the device drivers are installed and you get the message pop up “Your **new hardware is installed and ready to use**” you can start the SAM dialer manually from the desktop SAM icon or you can restart the machine for the auto launch of SAM dialer on win windows start up.

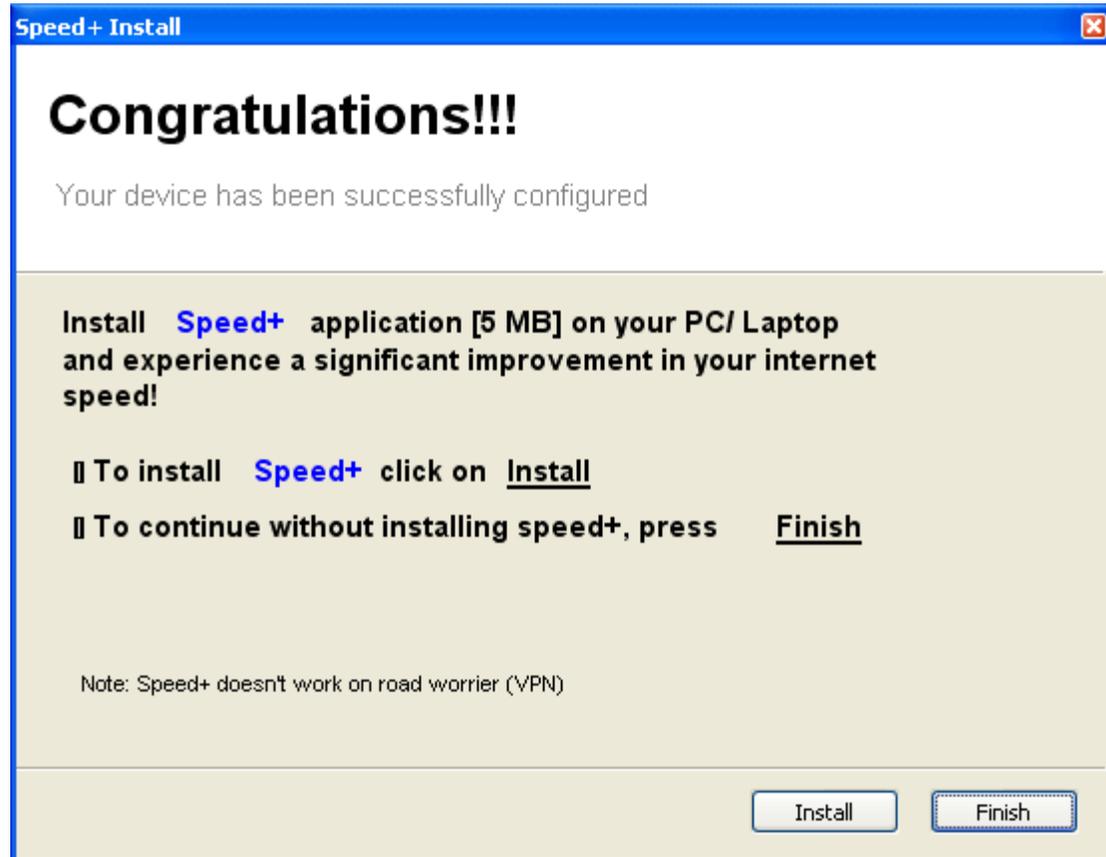


12. Once Dialer is launched you will notice a SAM Utility pop up which will set you user name to the current Windows Log on name. Now, dialer is ready to use.
(After this refer to dialer use in training material)

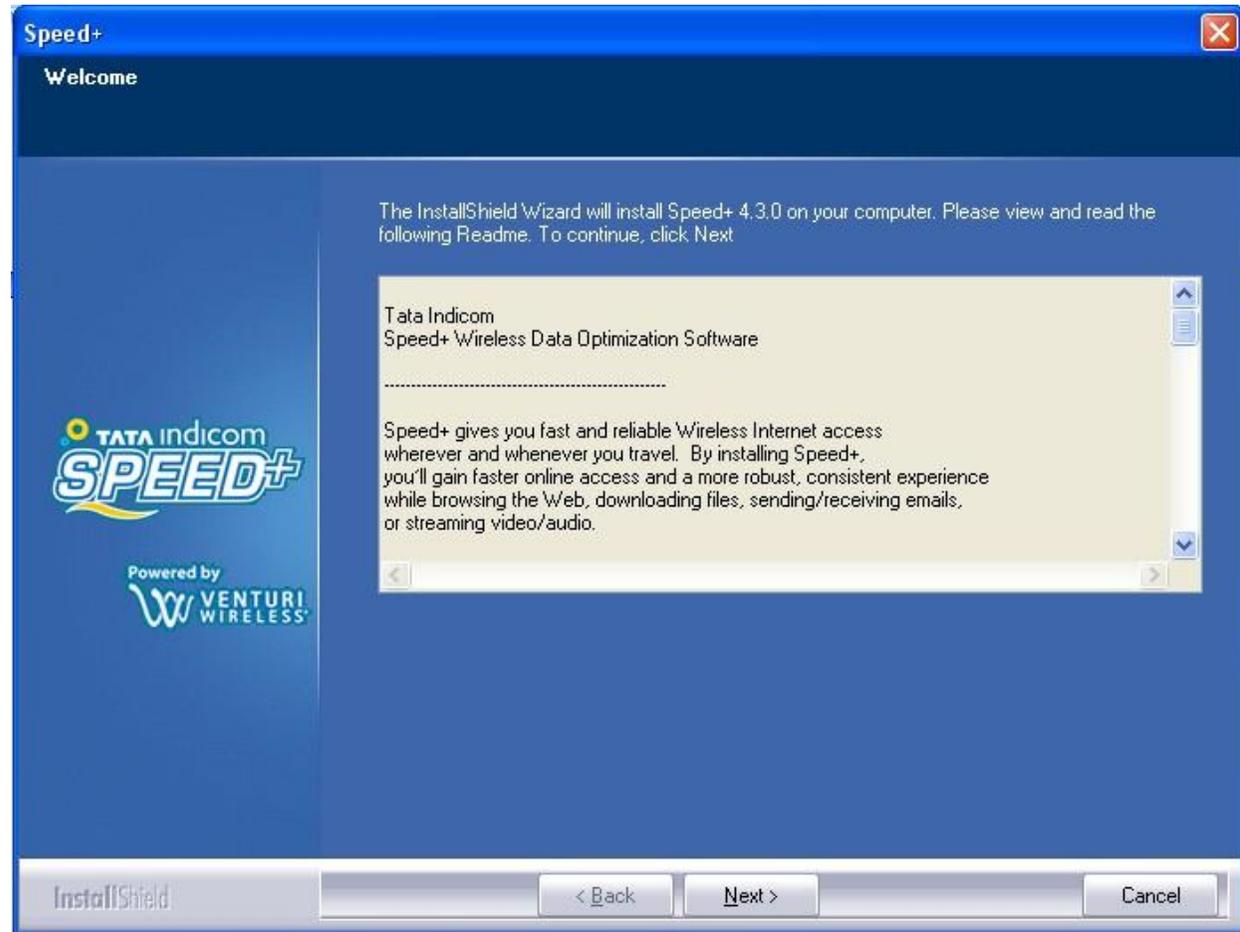


- AT stage **8**) above **IF** you desire to install the SPEED+ application, you can do so as per steps mentioned below:

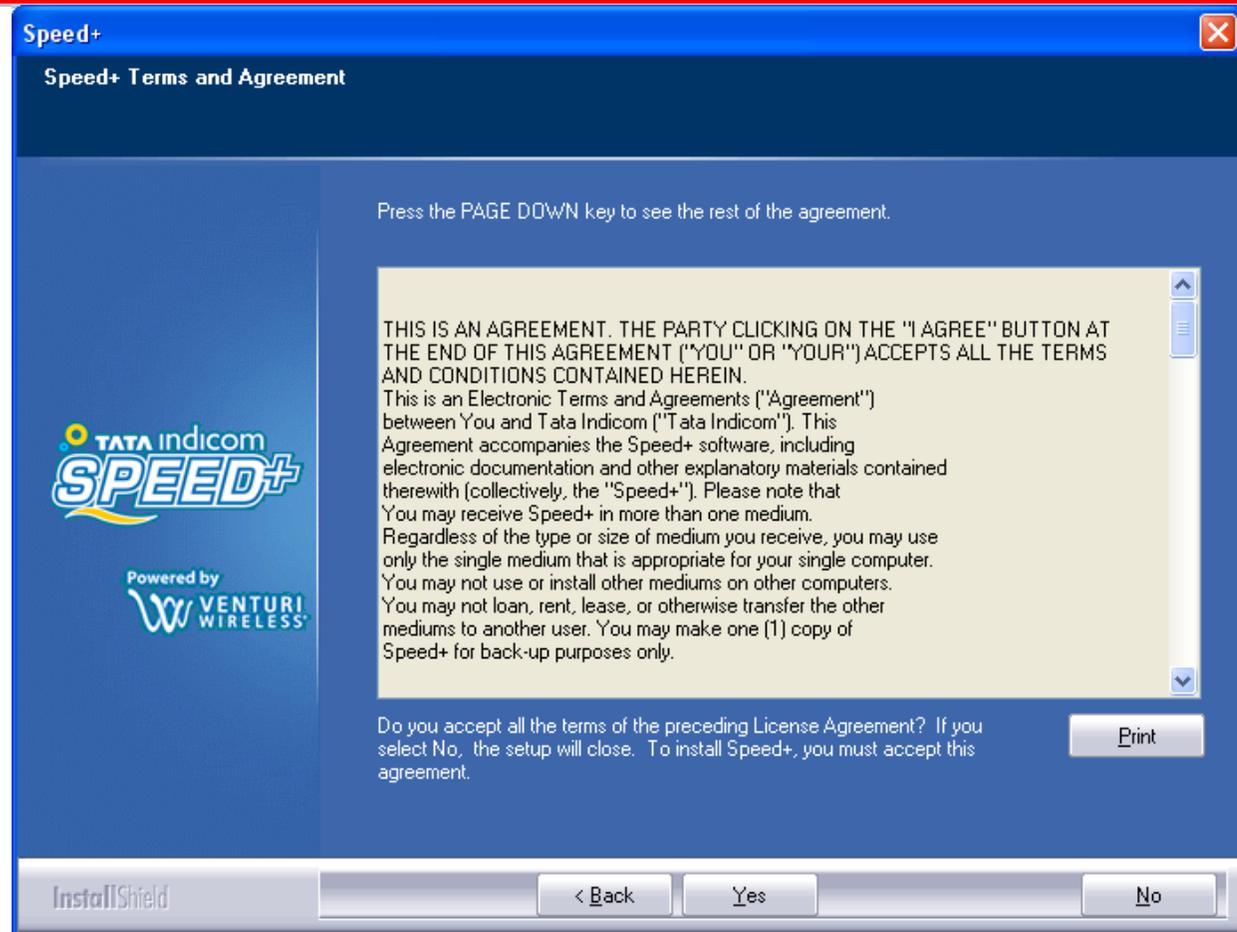
➔ Click on **INSTALL**



- Click on **Next**

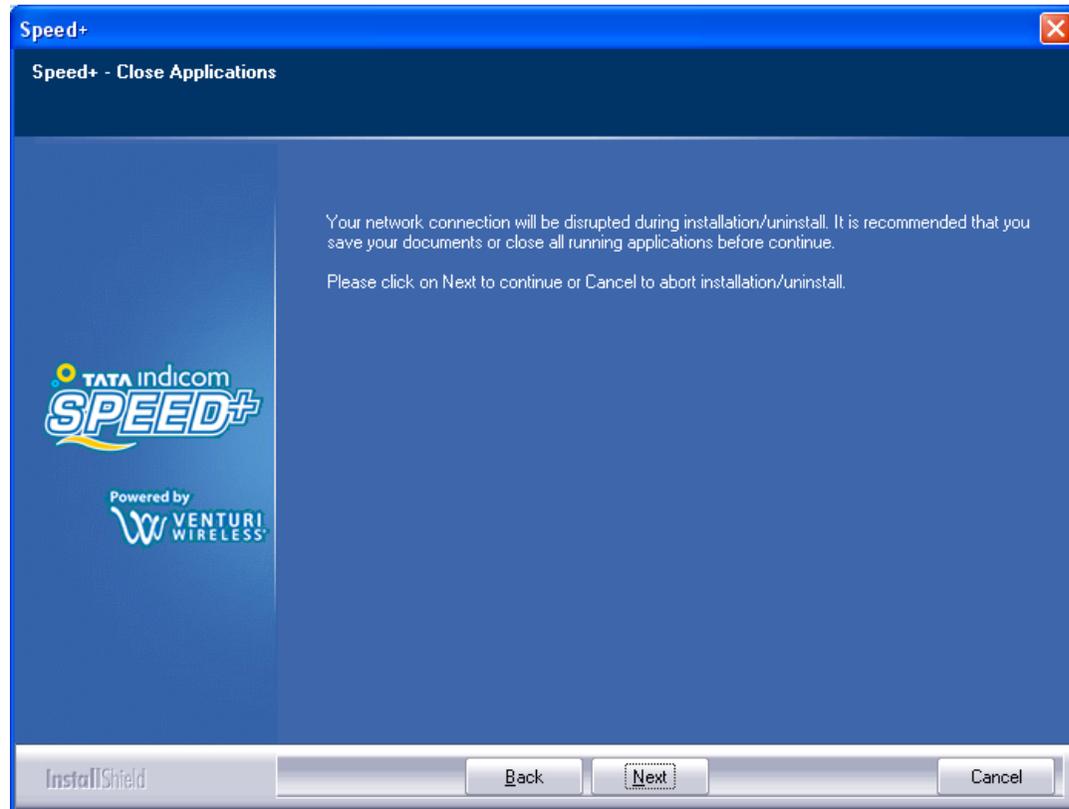


- Click **YES** to proceed



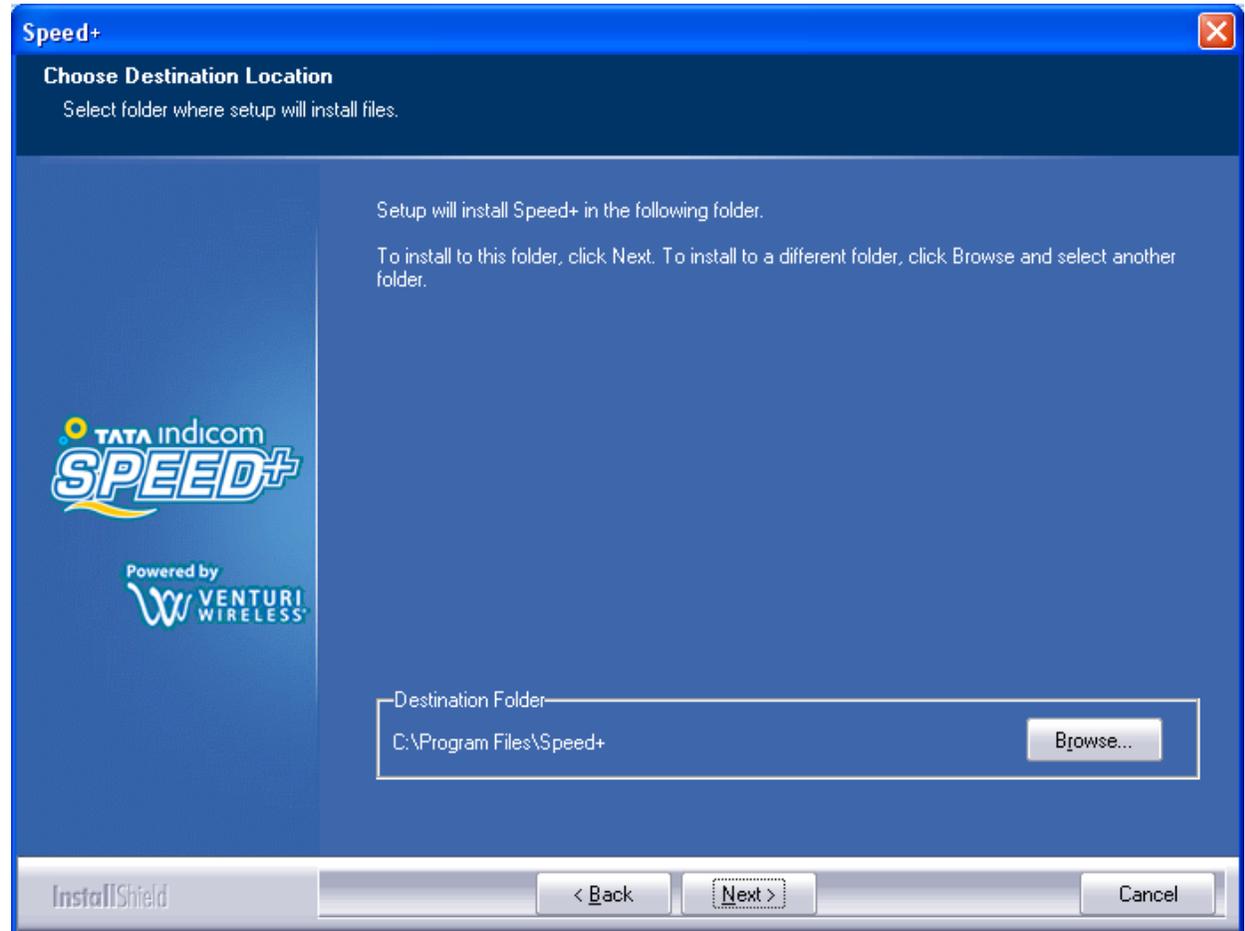
- Click **NEXT** to continue

Note: Network connection could be disrupted temporarily in this stage.

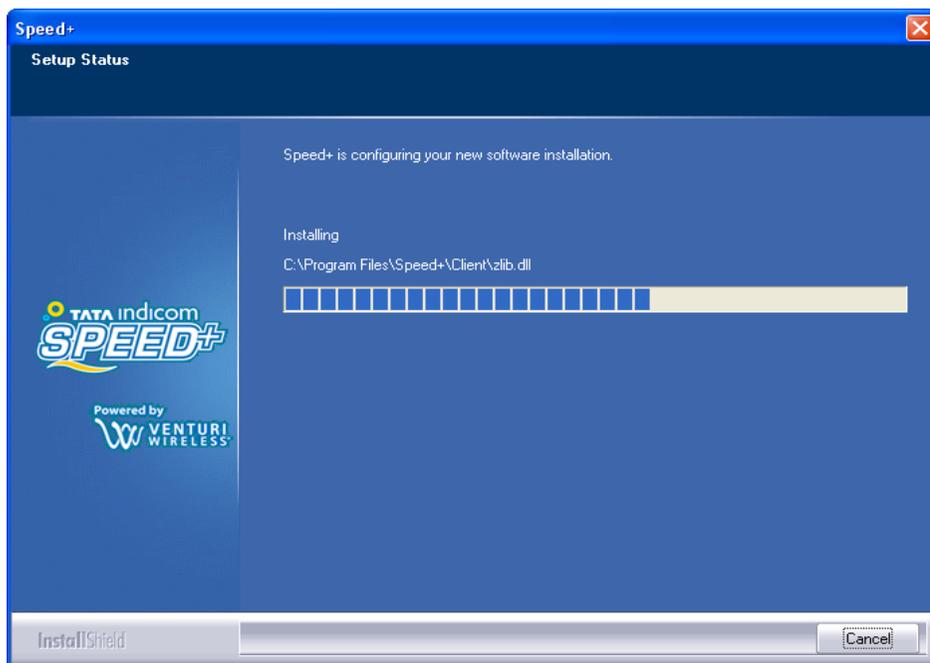


- Default Installation directory is C:\Program Files\SPEED+ , you can change it to the desired directory location by Pressing the BROWSE button

- Click **NEXT** to continue



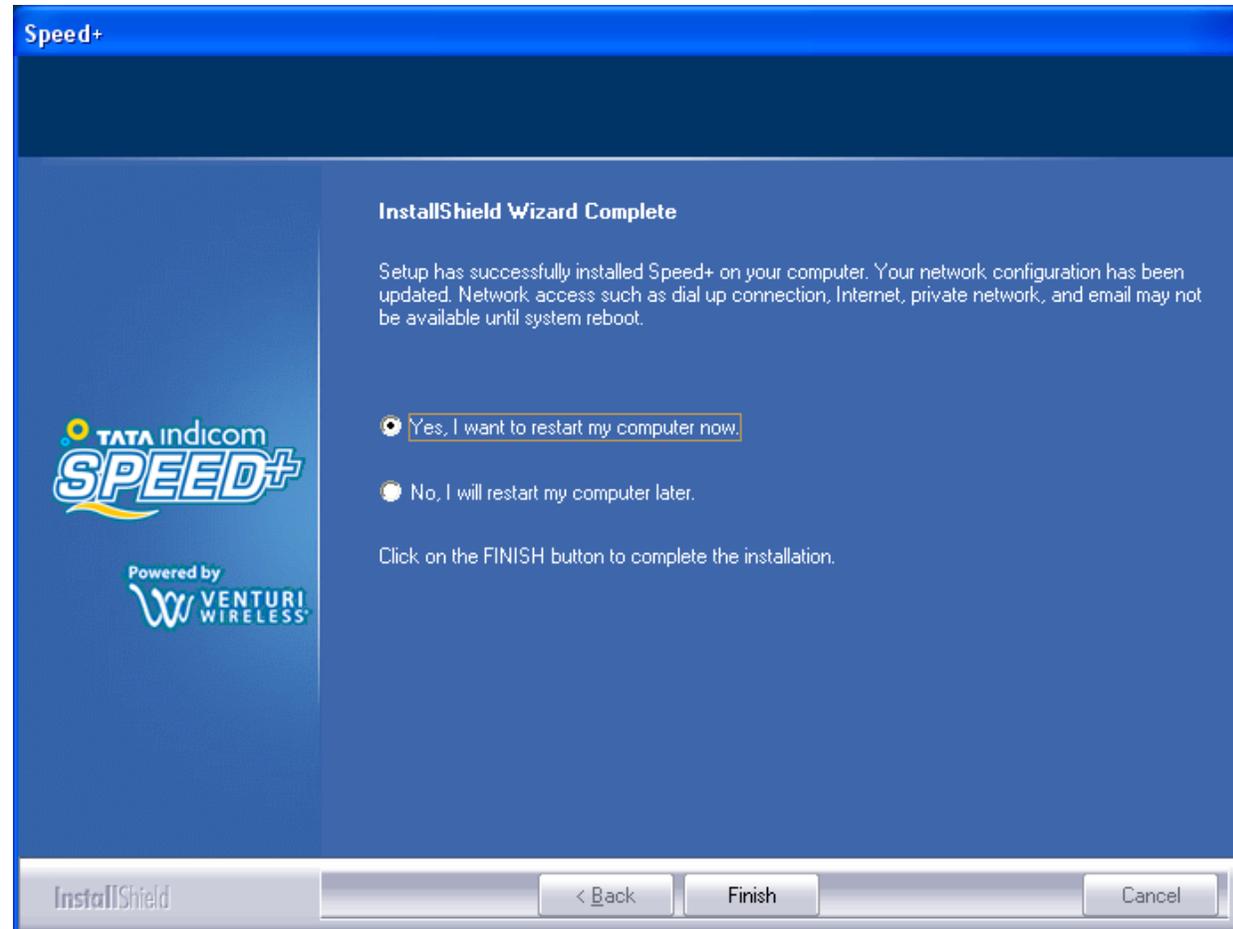
- Installation will proceed as below :



- **IMPORTANT NOTE** : At this stage when the Installation dialogue prompts to restart the computer at the final stage of SPEED+ installation, please Click on “ **NO, I will restart my computer later**” and click on **FINISH**-- > **If we restart the machine , the SAM dialer will be launched automatically on windows start up and this might conflict with the driver’s installation of the status port.**

- Here either plug out and Plug in the modem to Change from Memory mode to the Modem mode or Change the device status by pressing the LED Switch from RED to Green.

- Once the device is in the Modem mode (Green LED status) the drivers will be installed and device will be ready to use.



- **Important Note:** at this stage when the modem is removed and inserted again the mode of the modem will change from MEMORY mode (RED LED Light indication) to MODEM mode (GREEN LED light indication). You will observe that the device drivers are being automatically installed at this stage (Observe the System tray at the bottom right of the screen) and once done it will display “Your New hardware is installed and ready to Use”.



Till such time:

- **DO NOT** Launch / start the SAM dialer from desktop manually.
- **DO NOT** restart the desktop / laptop as on restart the SAM dialer will be launched automatically on windows start up and this might conflict with the driver's installation of the status port.

13. Once the device drivers are installed and you get the message pop up “Your **new hardware is installed and ready to use**” you can start the SAM dialer manually from the desktop SAM icon or you can restart the machine for the auto launch of SAM dialer on windows start up.



14. Once Dialer is launched you will notice a SAM Utility pop up which will set you user name to the current Windows Log on name. Now, dialer is ready to use.
(After this refer to dialer use)

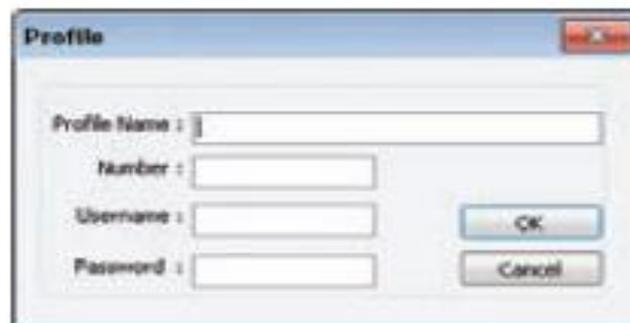


CONNECTING TO THE WEB

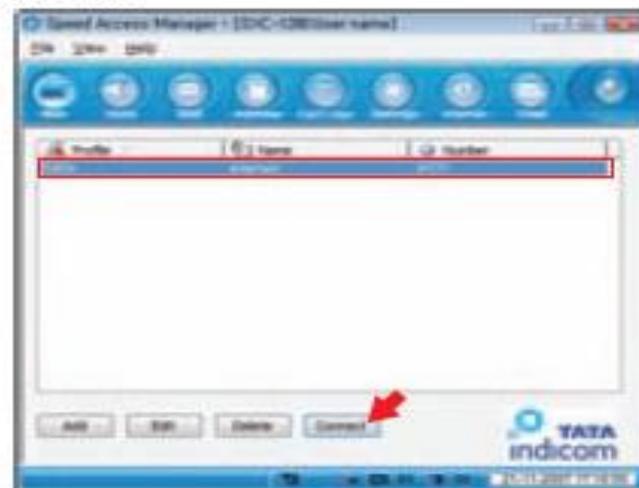
1. To access to the network, click **“Web”**.



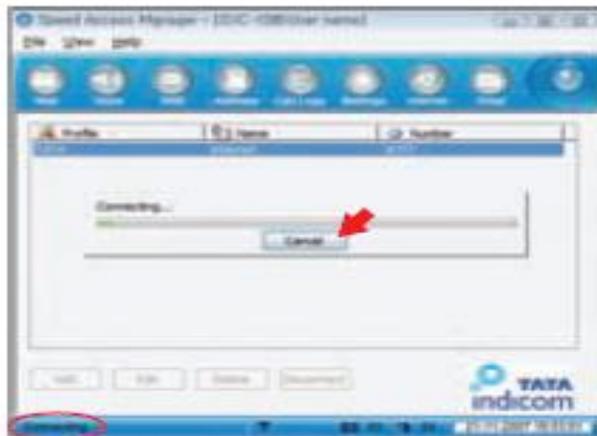
2. There is a default profile to connect to the TATA networks. If you want to add another profile, click the **“Add”** button. You can also use the context menu on the list by your mouse right button.



3. If you want to connect to the network, you may select one of the profiles on the list and just click **“Connect”**. You can also edit or delete your profile on the list using the buttons at the bottom of the window.

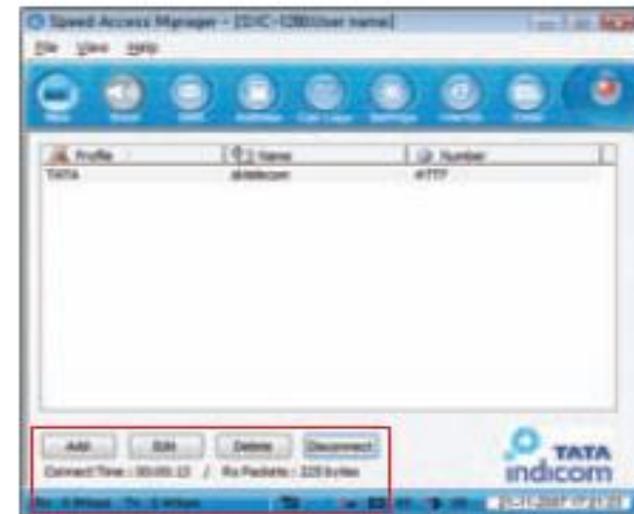


4. When you press “**Connect**”, a progress window pops up showing its connection status.
You can cancel connection by clicking the “**Cancel**” button on the progress bar.



5. When it is connected, you can check your connected time and received packet.
The packet speed is shown on the status bar.
Your modem device will be blinked by green light.

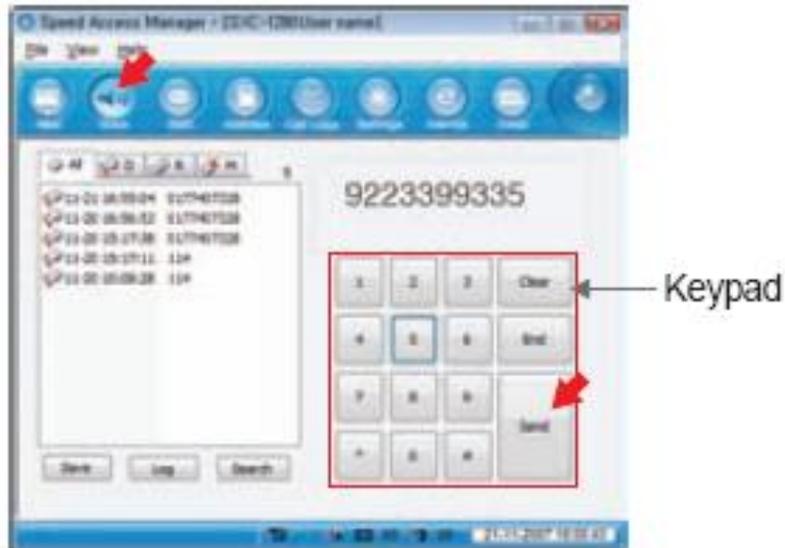
You can't use a voice call function while it is connected, but it is possible to use SMS.



6. To disconnect your connection, click “**Disconnect**” button.

MAKING VOICE CALLS

Call placing/receiving buttons

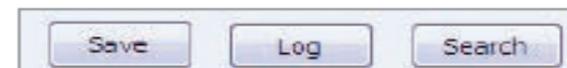


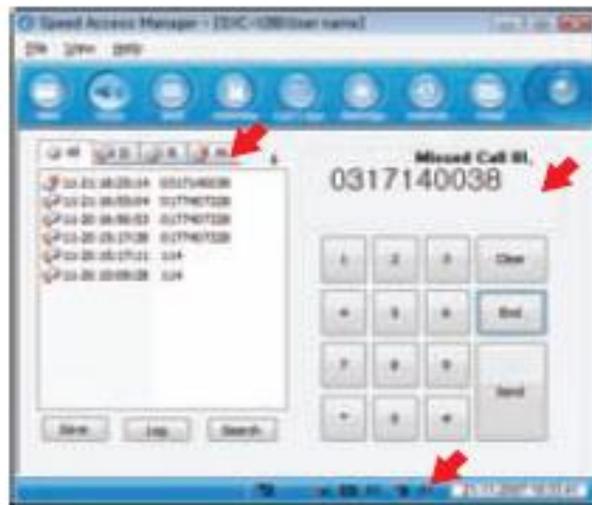
1. Enter the destination phone number by using the keypad or keyboard. Also you can select a phone number on the call list. After then click **"Send"** to make a call. To finish your conversation, click the **"End"** button.

2. You can also make a call from another window such as **"SMS"**, **"Address"** or **"Call Logs"** tab. They have a **"Call"** button for making calls.
3. During a conversation, you can control your device volume by using the volume bar. It will be appeared after call connecting.
4. The **"Mute"** is a toggle button. It converts its function between **"Mute"** and **"Unmute"** each type you click it.



5. To save a phone number, you may click **"Add"**.
6. The **"Log"** button shows a window with the log list.
7. You can search a number in your address book using the **"Search"** button.





[Missed call]

“**Send**”, then you may dial to the next destination number and click “**Send**” button to make a call.

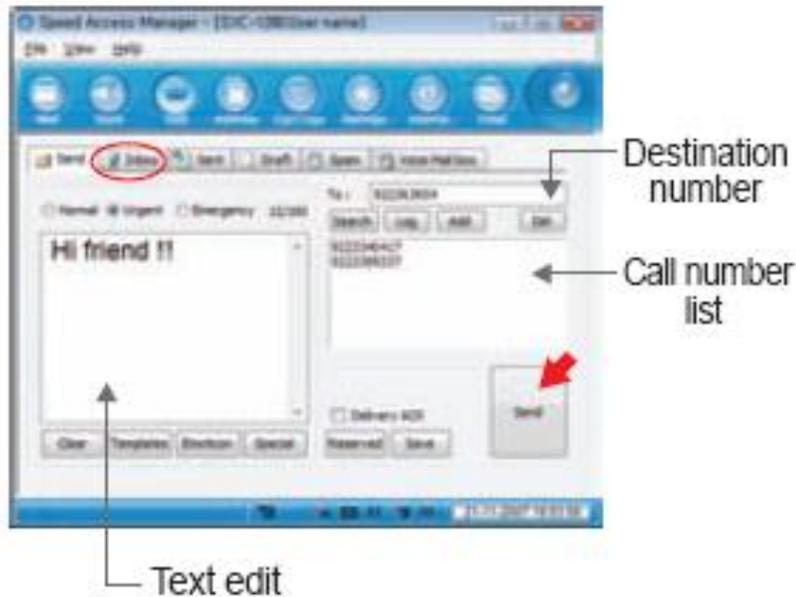
3. Call waiting function allows you to receive another incoming call during a conversation. You can receive the second call using the “**Send**” button. Then the first party will be placed on hold. You can switch first party and second party using the “**Send**” button.

• Call utility

1. Your modem supports conference call and call waiting functions but it firsts needs to be registered to a service center.
2. Conference call (3-way call) enables you to converse with 2 more people. Once you register, you can make a conference call. Dial the first number and click

SENDING & RECEIVING SMS

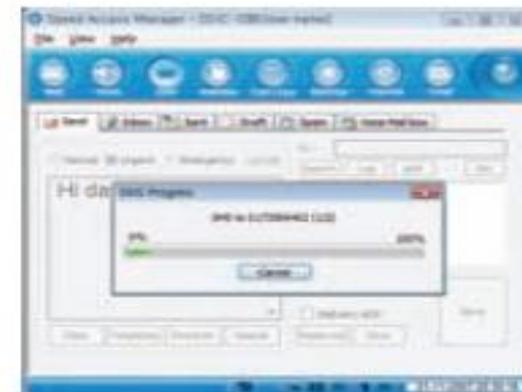
• Send



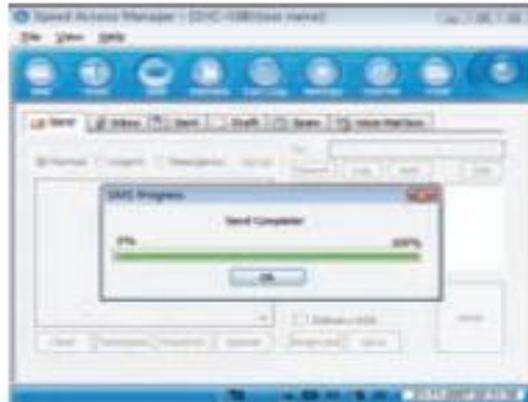
1. Write a message in the edit box, and add a destination number to the call number list using the **"Add"** button. You can edit your message until it is being 160 characters.
You can use a **"Search"**, **"Log"**, or **"Add"**

button to add a number to the list and also delete using the **"Del"** button.

2. There are 3 priority options. They are **"Normal"**, **"Urgent"**, and **"Emergency"** options.
3. There are some utilities for message editing. They are **"Templates"**, **"Emotion"**, and **"Special"**.
4. You may send the message by clicking the **"Send"** button.



[Sending SMS]

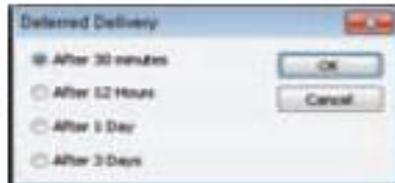


[Send Complete]

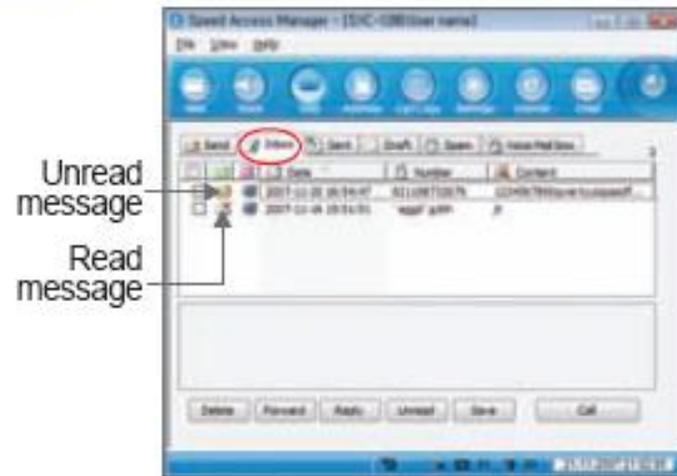
5. You can send a message with a delayed time by clicking the **"Deferred"** button.

You have 4 options to send it with some delayed time. When all items are done, you may click the

"OK" button. And then your message will be sent directly and saved in the **"Draft"** tab. Of course it will be reserved in our network side, and will be sent in time as you wish.



• Inbox

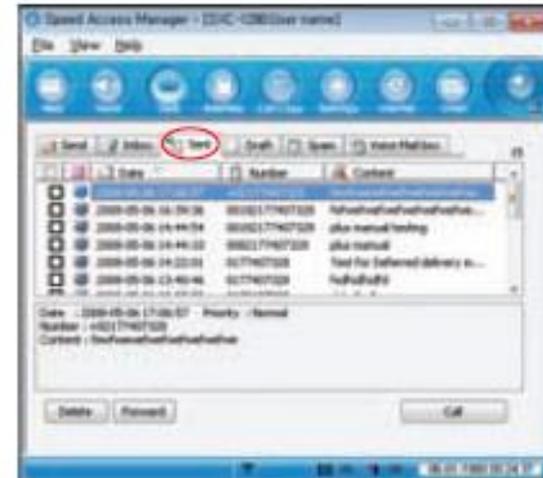


1. When a message is incoming, you can see a small pop up window like as notification, and a tray icon blinks; it also plays an alert sound depending on your selection in **"Incoming SMS Alert"**. The received message is automatically saved in Inbox. To set the **"Incoming SMS Alert"** option, press the **"SMS"** tab in the **"Settings"** menu, and set **"Incoming**

SMS Alert” option. Refer to **“Settings”** for details.

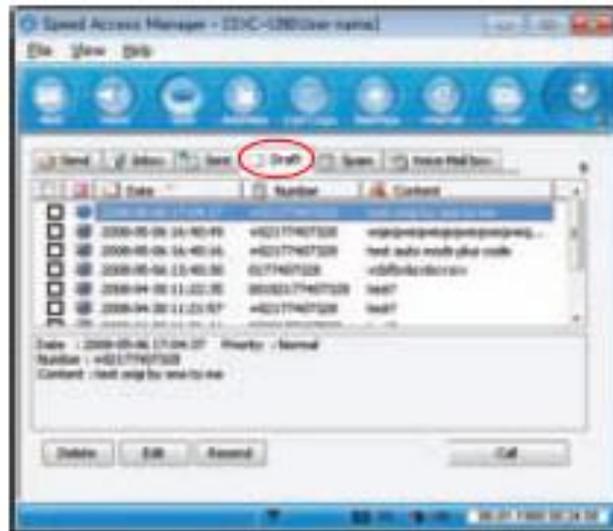
2. If you have unread messages, your new message count will increase on the Status bar (see the bottom of the window).
3. You may sort your messages by Number, Name, Date and Content under the **“Inbox”** tab. The message icon indicates whether your messages were read or not, and it has a storage icon like as PC or Modem.
4. If you select a message, the content of the message is displayed under the list.

• Sent



1. Under the **“Sent”** tab, the sent messages are sorted by Number, Name, Date and Content. You can identify the location of the messages (PC or Modem) with the icons.
2. Click the **“forward”** button to send the message to new recipients. Click the **“Delete”** button to delete the selected message.

• Draft



1. Under the "**Draft**" tab, there are failed or unsent messages.
2. If the message has failed to send, the "**Failed**" comment will be shown in the Status column. You can send it again using "**Resend**" button.

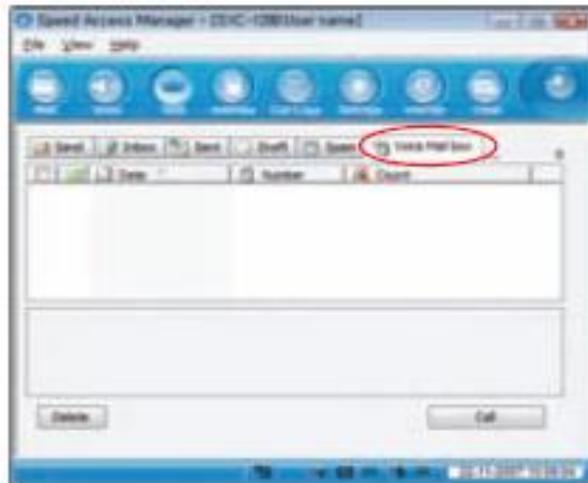
• Spam



1. Under the "**Spam**" tab, the filtered messages containing specific numbers or words are listed. The messages are sorted by Date, Number, and Content.
2. You can define numbers or words as you wish to filter a spam message at the "**SMS**" tab under the "**Settings**" menu. You can select "**Use**" or "**Not Use**" in "**Spam Message Settings**", and add/edit/

delete the Spam numbers with the “**Add**”, “**Edit**” or “**Delete**” button in the Number list. You can also add/edit/delete the Spam words with the “**Add**”, “**Edit**” or “**Delete**” button in the Word list.

- **Voice mail box**



1. The voice mail messages from BTS are displayed in the “**Voice**” menu. You can sort the messages by Number, Data and Content.

ADDRESS BOOK

• Search



A search interface consisting of a dropdown menu with the word "Name" selected, a text input field, and a "Search" button to the right.

1. To search a person in your address, select an item in the field (Name, All no, Mobile, Group, Address, Home, Office, FAX, Email, or Comments) on the list, and enter a name or number. After click "Search" then the entries, containing the name or number, are listed.
2. You can search entries in a specific storage (PC, Modem or All) by clicking the correct button under the search field.

• Group

t
r

Click mouse
right button

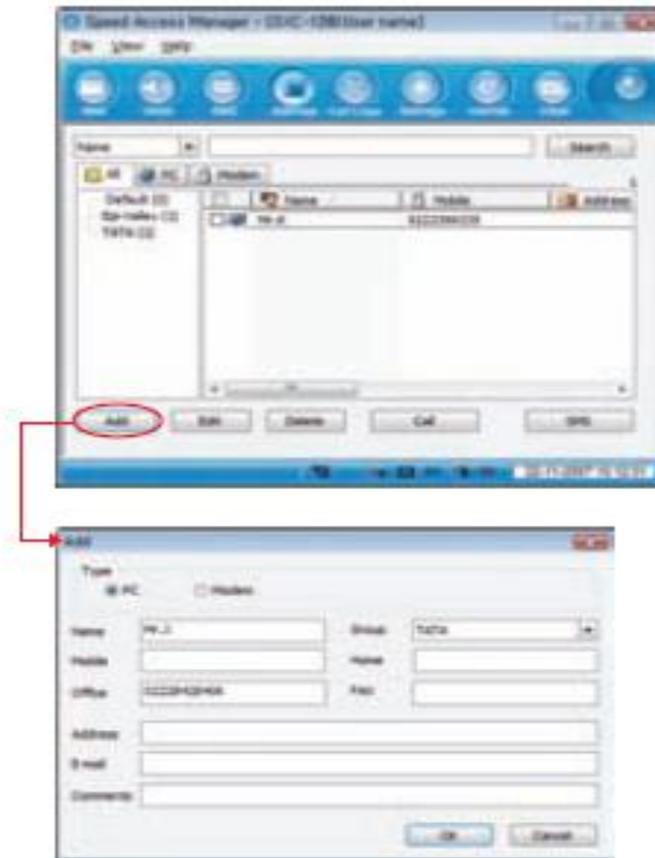


Click mouse
right button



1. You can make a new group; the maximum contact per group is 20.
2. You may right click on the mouse as shown on the left diagram. When you click it, a small menu will pop up. There are 4-options; Add-Edit-Delete-SMS
3. If you want to move or copy your items between each group, you can use drag-and-drop or use a small menu such as shown in the right figure.

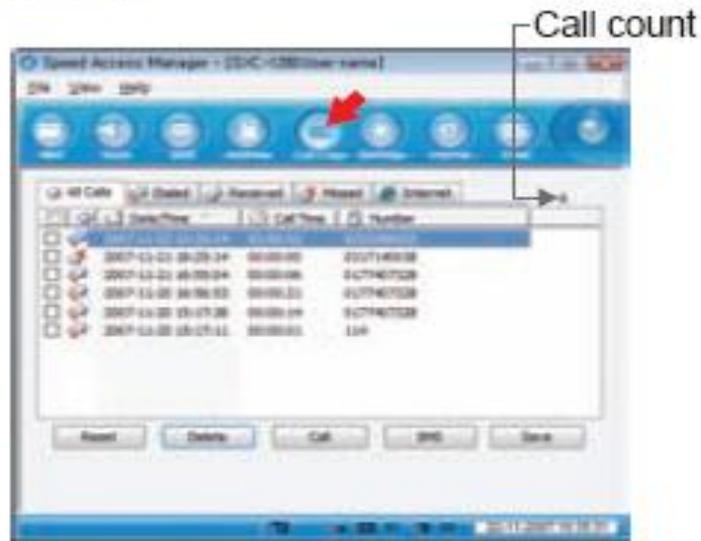
- List



1. You can **“add”**, **“edit”** or **“delete”** the contact details in your list box.

CALL LOG

• Call Log

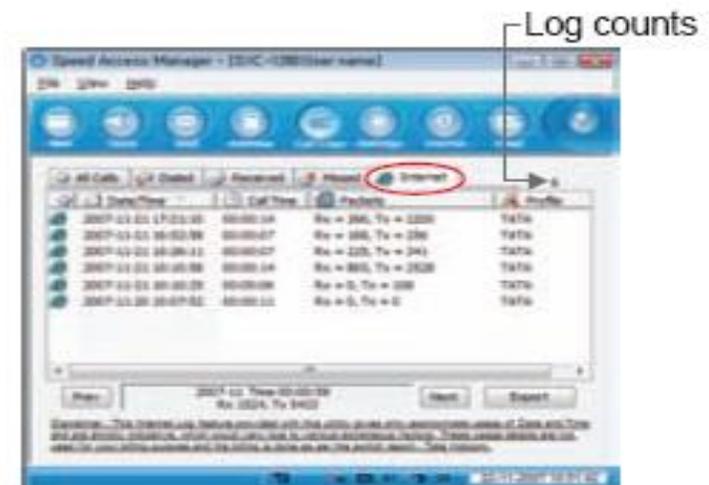


1. You can see All Calls, Dialed Numbers, Received Calls and Missed Calls. The number of entries stored in the list is displayed on the top right of the window.
2. "All Calls" show Dialed Numbers, Received Calls and Missed Calls which

are identified by the icons. The entries can be sorted by Date, Time and Number.

3. "Dialed Numbers" shows the numbers you have dialed.
4. "Received Calls" shows the numbers from which you have received calls.
5. "Missed Calls" shows the numbers you have missed calls.

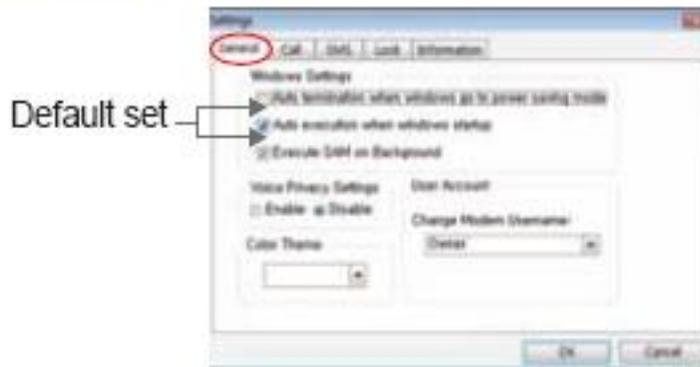
• Internet Log



SETTINGS



• General Settings

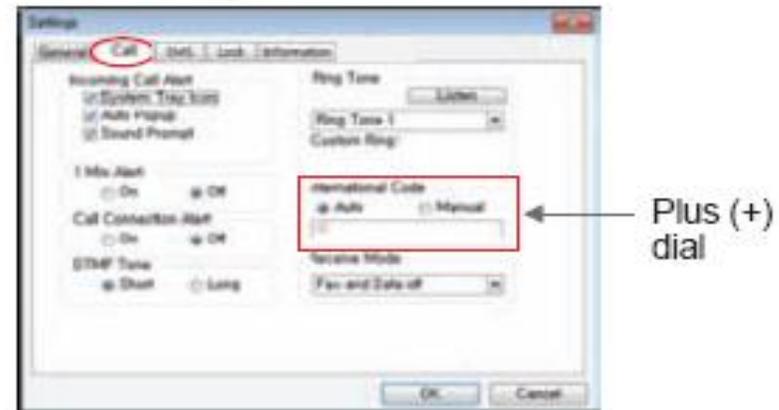


1. You have 3 options for “**Windows Settings**”. “**Auto termination when windows go to power saving mode**” enables this dialer to exit automatically when your PC is switching to a power save mode. If you select “**Auto execution when windows start**” then dialer starts automatically when your OS is booting. And “**Execute Speed Access Manager on Background**”

makes it going to a try and running on a background when you click its exit icon like as 

2. If you make its “**Voice Privacy Settings**” to enable, then your voice will be encoded before transmitted.
3. You can change the background color of Speed Access Manager with “**Color Theme**”.

• Call Settings



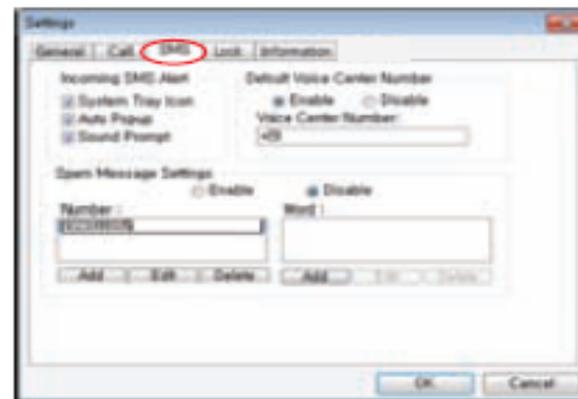
1. According to your choice, an alert process

of the incoming SMS is changing. There are 3 options like as **“System Tray Icon”**, **“Auto Popup”**, and **“Sound Prompt”** under **“Incoming Call Alert”**. And also you can choice a **“Ring Tone”** listening it. If you want to set another tone like as wave then click the ring tone list and select **Browse**. You can select any one as you wish.

2. If **“1 Min Alert”** is **“On”**, a beep is playing at a minute when you are in conversation.
3. If **“Call Connection Alert”** is **“On”**, a beep is playing every time when your call is connecting.
4. You can select its **“DTMF Tone”** but if possible don't change its default option.
5. Plus code enables your international call to be made automatically by using **‘+’**, even though you don't know the special number for international calling like as **“00”**. There are 2 options those are

“Auto” and **“Manual”**. When you select its **“Manual”** then you should edit the number for international but you might don't care if you select **“Auto”**.

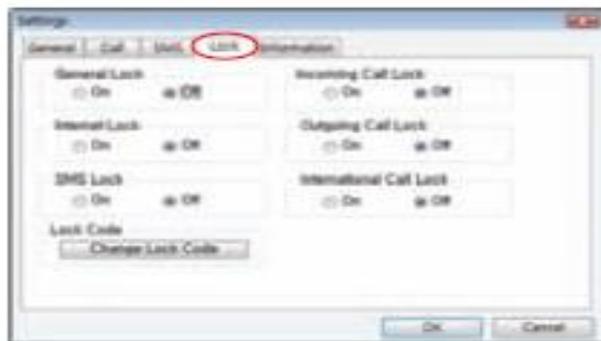
• SMS Settings



1. According to your choice, an alert process of the incoming SMS is changing. There are 3 options like as **“System Tray Icon”**, **“Auto Popup”**, and **“Sound Prompt”** under **“Incoming SMS”**. You can check or uncheck these options as you wish.

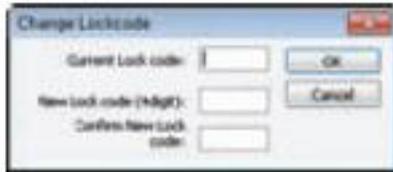
2. You can make it to enable and define the voice center callback number via "**Default Voice Center Number**". But if possible, don't change your default option.
3. You can classify some messages to spam. If you wish to enable it, then select "**Enable**" otherwise select "**Disable**" under the "**Spam Message Settings**". When you select its "**Enable**", you can edit the phone numbers and some words as you wish to filter.

- Lock Settings

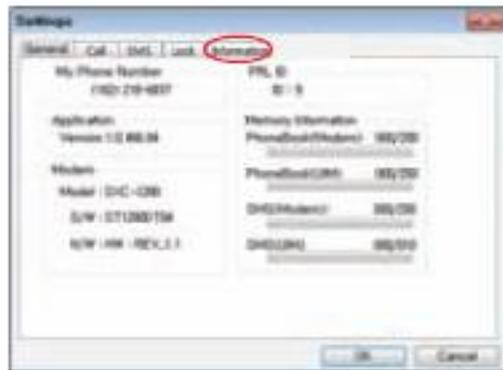


1. If "**General Lock**" is "**On**", it requests a lock code every time when you start this application.
2. If "**Internet Lock**" is "**On**", it requests a lock code when you try to access an Internet under Web menu.
3. If "**Outgoing Call Lock**" is "**On**", it requests a lock code each time when you try to make a call except only an emergency call.
4. If "**International Call Lock**" is "**On**", it requests a lock code each time when you try to make an international call.
5. If "**Incoming Call Lock**" is "**On**", it requests a lock code each time when you are getting an incoming call.
6. If "**SMS Lock**" is "**On**", it requests a lock code each time when you are accessing the "**SMS**" menu.

7. **“New Lock Code”** enables you to change your lock code. First up, you should know your current lock code. After input a current lock code, you can change your lock code.



• Information



1. **“My Phone Number”**: This is your phone number.

2. It displays its version of the application and the modem device like as **“Application”** and **“Modem”**
3. **“PRL ID”** means its PRL ID of the modem.
4. **“Memory Information”** shows you a status of its storage space.

Internet



- If you click “Web”, the Internet browser start and moves to a specific URL.

Email



- The Email client or the web mail selected by the service provider starts.

LINUX SUPPORT

* **Note:** SXC-1280 allows only internet connection to PC with Fedora Core 6, Ubuntu 6.06, SUSE 9.1 personal version and 10.

Linux connection for Internet

1. Log in the root user.
2. Connect the USB modem to PC
3. Run terminal in Linux
4. Type following command.
`wvdialconf /etc/wvdial.conf`
5. `wvdialconf` will detect the modem, its maximum baud rate, and a good initialization string and will generate or update the `wvdial` configuration file based on this information.

6. A configuration file will be created as below.

```
[Dialer Defaults]
Modem = /dev/ttyACM0
Baud = 460800
Init1 = ATZ
Init2 = ATQ0 V1 E1 S0=0 &C1 &D2
+FCLASS=0
ISDN = 0
Modem Type = USB Modem
; Phone = <Phone number>
; Username = <Username>
; Password = <Password>
```

7. But the user still need to edit `/etc/wvdial.conf` to specify the phone number, login name, and password of your internet account in order for `wvdial` to work.

8. User should edit the configuration file as given below.

[Dialer Defaults]

Modem = /dev/ttyACM0

Baud = 460800

Init1 = ATZ

Init2 = ATQ0 V1 E1 S0=0 &C1 &D2

+FCLASS=0

ISDN = 0

Modem Type = USB Modem

Phone = #777

Username = internet

Password = internet

stupid mode = 1

How to connect Internet

1. Open the terminal.
2. Type wvdial and press enter.

How to disconnect Internet

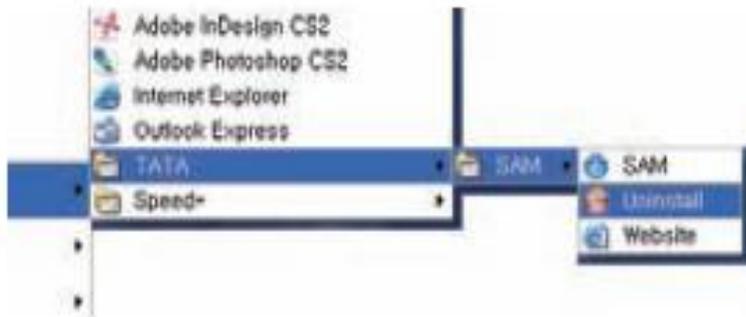
1. Press ctrl + c

Or

2. Close the terminal

UN-INSTALLING SAM

If you want to uninstall the Speed Access Manager program, Select Start > All Program > TATA > SAM > Uninstall as shown.



Do not un-plug the modem. You will be asked to turn off the modem during the un-installation process.

After the un-installation, the modem can be unplugged.



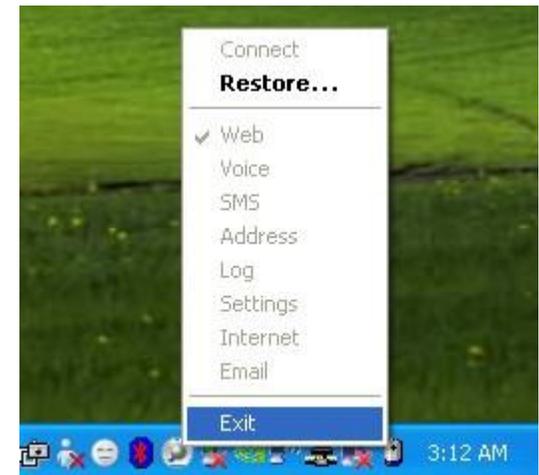
UN-INSTALLING OF SXC 1280 NON UIM Device

Please note that In the SXC 1280 NON UIM dialer the User will not be able to Un-install the SAM dialer if the dialer is running either on desktop or in the system tray.

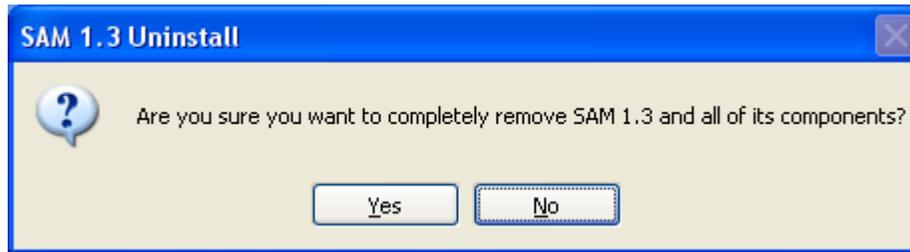
1. A message will be popped up to close the dialer before Un-installation can continue.



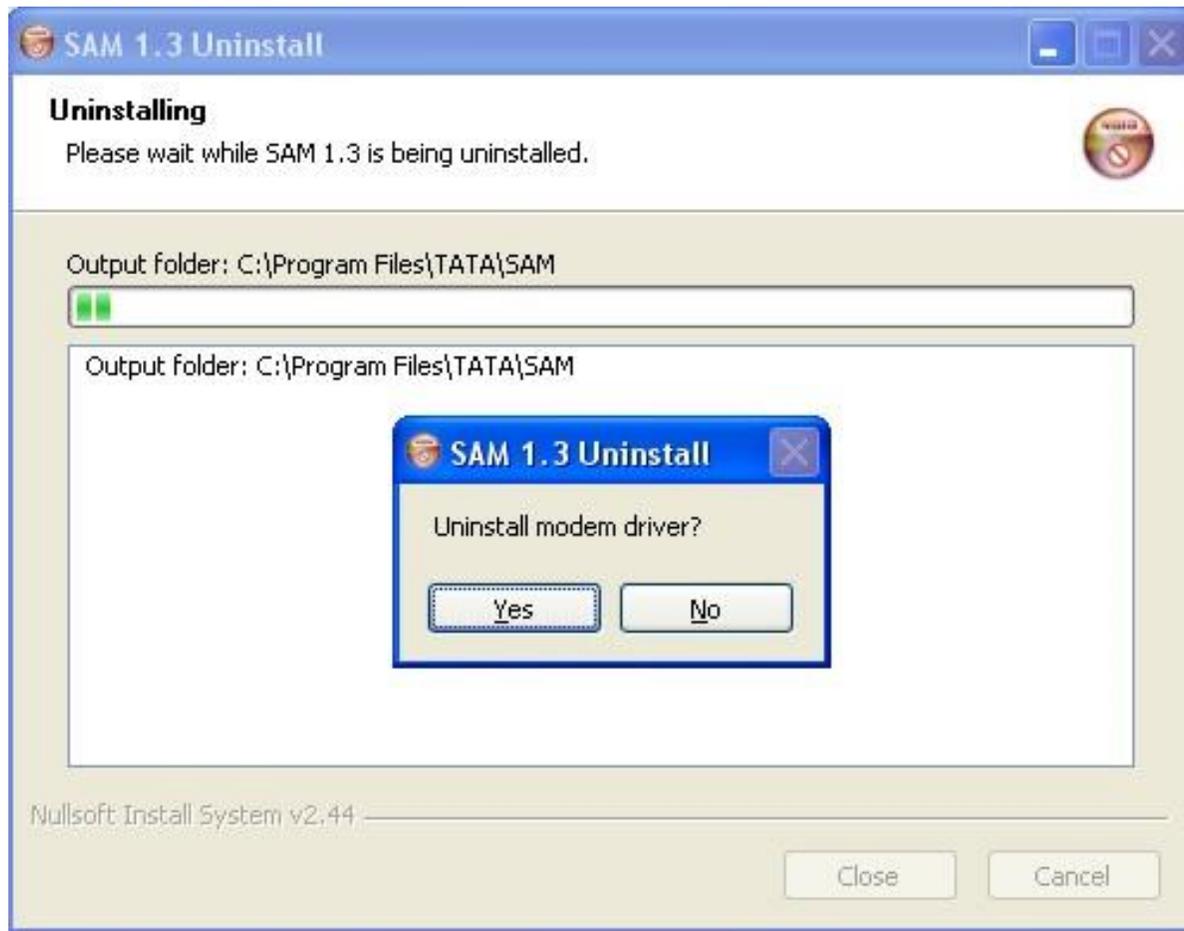
2. Kindly **exit** the dialer from the system tray as shown below :



3. Click **Yes** to continue



4. Click **YES** if you need to remove the entire SAM dialer application along with the modem drivers Or else click **No** to just remove the SAM dialer application
- Uninstalling the Modem drivers will prompt for a machine **restart**



5. Press **OK** to complete.

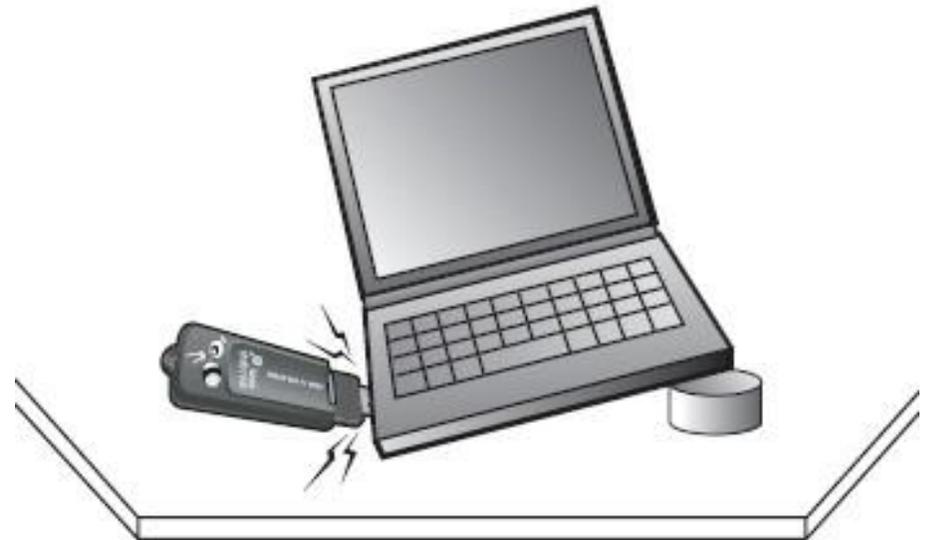


6. Uninstall SUCCESS

PRECAUTIONS TO PREVENT DAMAGE

Using Extension Cable is possible way to prevent accidental damages from Laptop & Desk-top PCs. (Extension is Purchased separately)

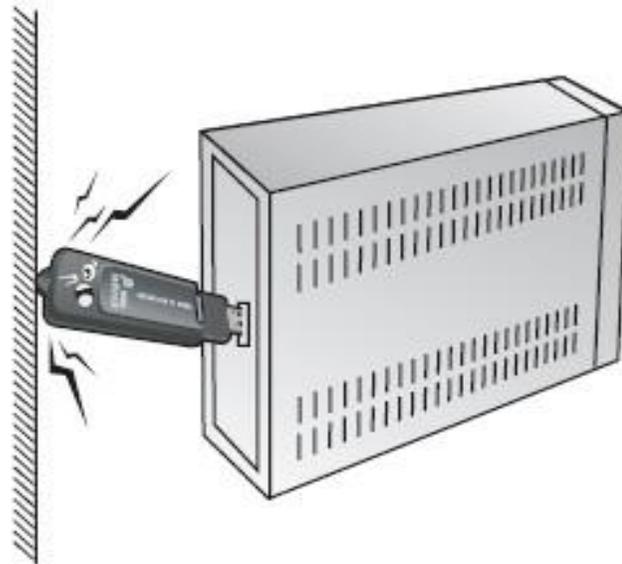
Keep the product horizontally level while using it. The product could be impacted and damaged.



Install the product and do not move it. The product could be damaged by receiving an external impact while be moved.



If you install the product on the rear of your PC, be careful that it does not touch the wall. The product's performance could be limited, and it could be damaged.



FAQs

You may find below a series of solutions to troubleshoot some known problems that may occur when using SXC-1280 USB Modem along with certain types of hardware.

1. The message “Modem driver not installed. Install driver and restart program” is displayed on the Dialer Client?
 - ▶ Dialer Client is not installed properly, Reinstall Dialer Client.
2. There is no signal bars on the RSSI indicator on the SAM Dialler and “No Service” is displayed, same time the LED of your USB modem is blinking orange colour.
 - ▶ Check if you are in a coverage area related to the specific service provider. If it continue, please contact the service provider.
3. The message “Modem unplugged. Plug modem” is displayed on the Dialer Client?
 - ▶ USB Modem is not connected to PC. If connected, separate USB Modem from PC, and reconnect one minute after. Next, go to Start > Control Panel > System > Hardware > Device Manager to check whether USB Modem is in it. If Modem is not in the list, remove USB Modem from PC and reconnect after one minute.
4. The message “Invalid Modem Port, Reinstall driver” is displayed on the Dialer Client?
 - ▶ The PC recognizes USB Modem as a different system. Remove USB Modem from PC, and reconnect after one minute. Next, go to Start > Setting > Control Pane > System > Hardware > Device Manager to check whether USB Modem is in it. If Modem is not in the list, remove USB Modem from PC, and reconnect after one

minute. If the Message “Invalid Modem Port” continues to appear, please re-install Dialer Client after removing the previous program.

5. When a “MIN_LOCK” message or “PHONE_LOCK” message is displayed?

- ▶ The “MIN_LOCK” or “PHONE_LOCK” messages should not be displayed unless you try to make modification to the device. (Not Recommended)
- ▶ If these messages are displayed without any action from your part, please contact service provider to unlock the device.

6. When a “MIN out of range” message is displayed?

- ▶ Please enter valid MIN.

7. The message “Connect” appears even after connecting the Internet.

- ▶ Do not click “Connect” again. It is

necessary to take time to connect to the Internet using the “Dial-up network”.

- 8. If you fail to input correct pin number, please contact service provider.
- 9. For software upgrade and customer support, please visit at www.sitsvc.com