
ADU-510

(User Manual)

SW-ADU-510-UG-V1.0E(IUSACELL)

January 18. 2008



AnyDATA	CDMA	Module	Series	Reference	Design	Specification
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This document can be subjected to revision without further notice

FCC Warning: RF Exposure to Radio Frequency Radiation

The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, the gain of the external antenna must not exceed 1dBi. This device is compliant with the parameters of Specific Absorption Rate (SAR) government regulations.

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1. ADU-510 Features



2. LED Indicators

2.1 POWER

Mode	Descriptions
RED	Modem power on state
OFF	Modem power off state

2.2 IDLE / BUSY

Mode	Descriptions
GREEN	Success to network acquisition (Idle state)
BLUE	Data(Voice) call is connected
BLUE BLINK	Incoming voice call and not connected yet
OFF	No service or Searching the network

3. Program Installation

3.1 Introduction

This section describes step-by-step method to install ANYDATA.NET USB MODEM and Easy Wireless Net Software.

Note : Must install the software before connecting ANYDATA.NET USB MODEM to PC/Notebook.

3.2 Minimum System Requirement

3.2.1 PC Hardware

Recommend to use PC/Notebook at speed of 300 MHz or higher.
Minimum 233 MHz speed required, * Intel Pentium/Celeron products,
AMD K6/Athlon/Duron products or compatible processors

Recommend to use 128MB RAM or higher
Minimum 64MB of memory must be used,
but in this case the performance will be degraded and certain features will be limited.
At least 100 MB of free hard disk space is required.

Motherboard or PCI card that supports USB.
Video adaptor with Super VGA (800 x 600) or higher resolution and Monitor
CD-ROM or DVD Optical Drive

Keyboard and Mouse

3.2.2 Operating System

Windows XP Home or Professional (with Service Pack 2)
Windows 2000 (with Service Pack 4 for optimal performances)
Windows Vista

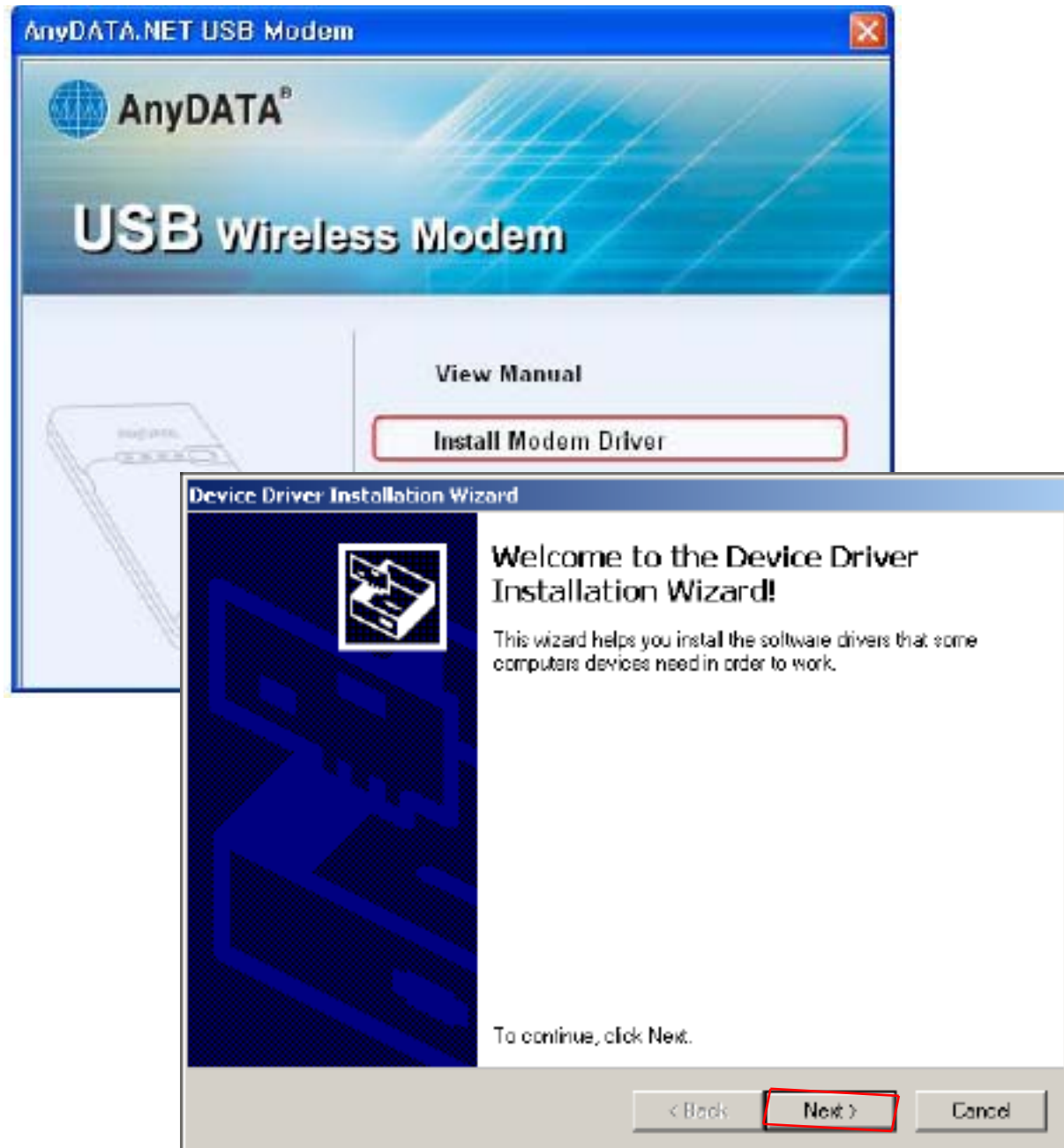
< Recommended parameters >

Windows Update : Keep your computer up to date

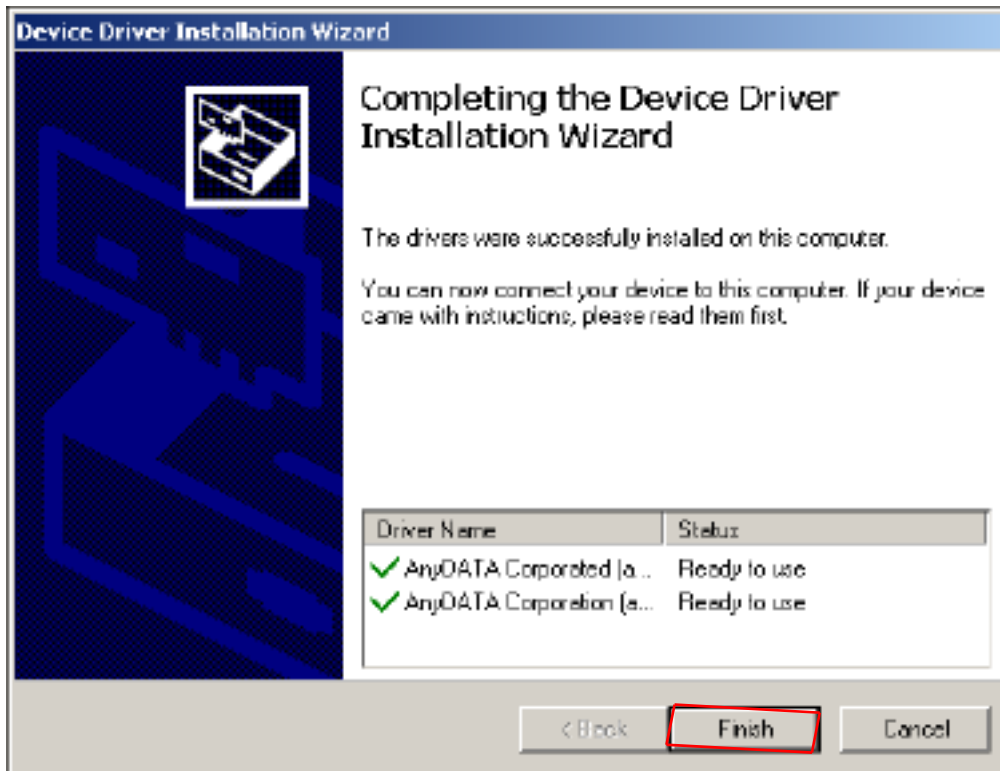
3.3 USB Driver Installation and Uninstall (Windows 2000)

3.3.1 USB Driver Installation (Automatic)

1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click <Install Modem Driver> on the menu.



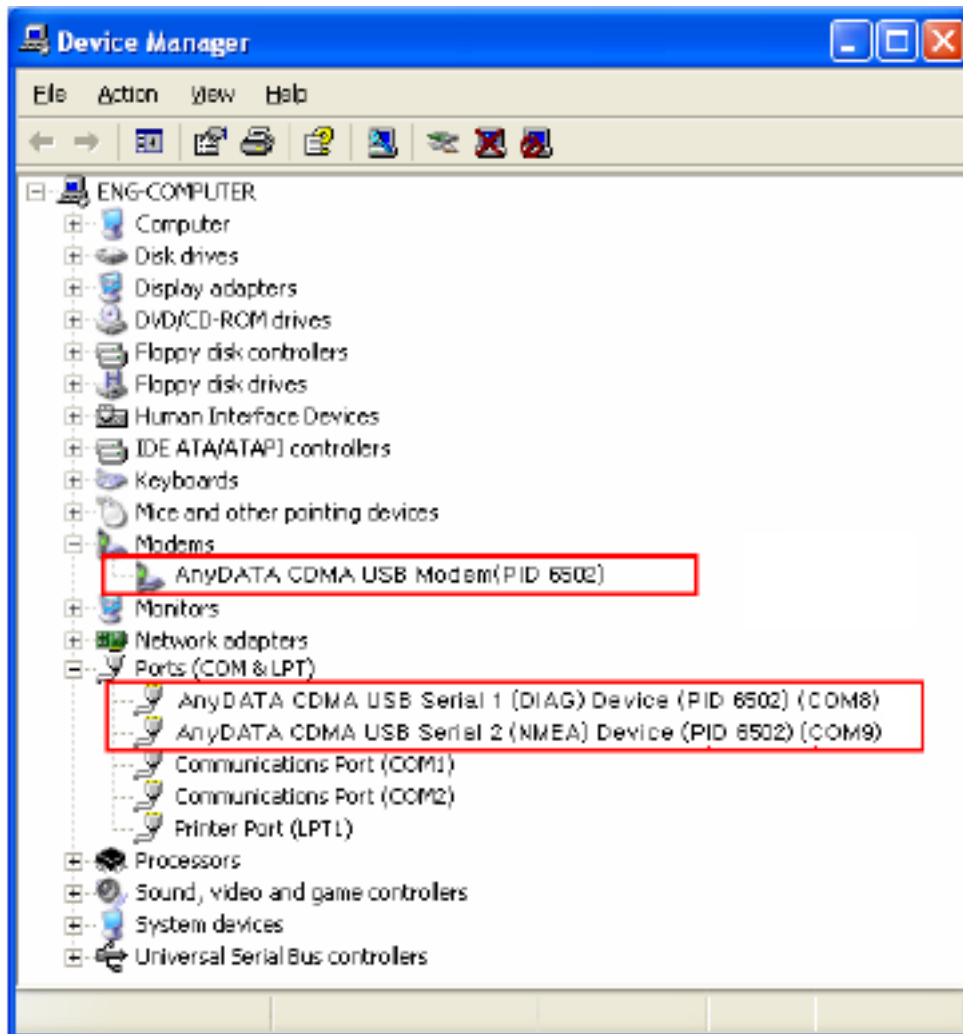
2. The computer needs to restart after the driver installation completed.



3. Connect the modem and PC's USB port, and check if the driver is installed properly in <Device Manager>. See the followings to the location of <Device Manager>

[Start ► Control Panel ► System ► Hardware Tab ► Device Manager]

As shown in below with red boxed that shows <AnyDATA CDMA USB Modem> and <AnyDATA CDMA USB Serial 1/2 Device>, the driver has been successfully installed.



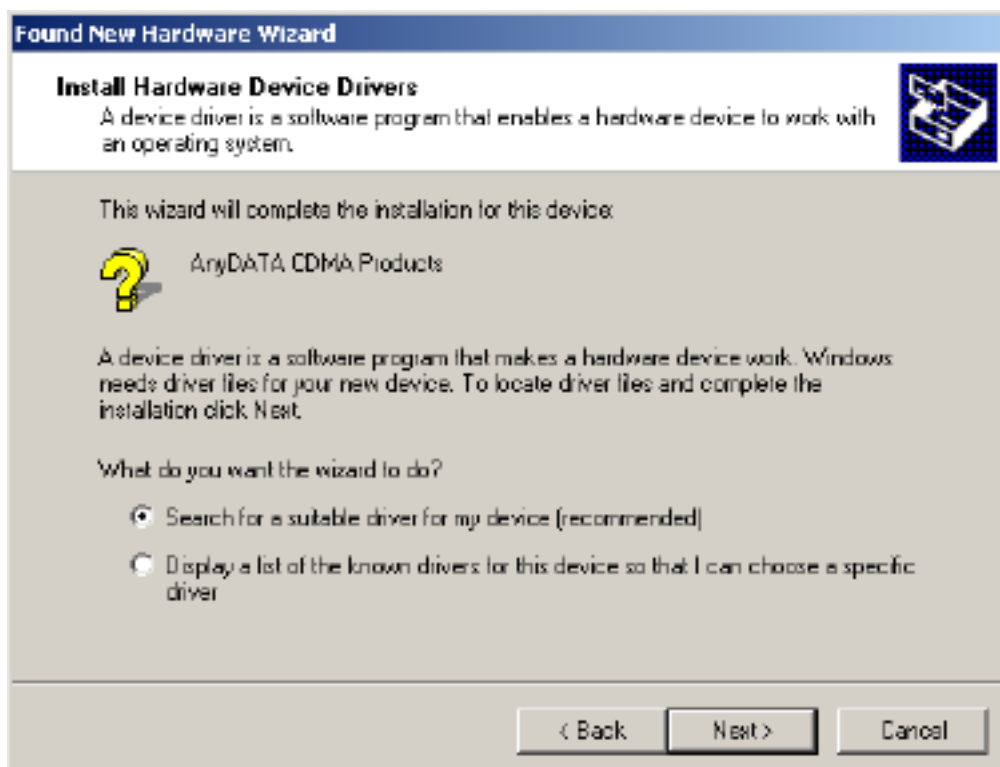
3.3.2 USB Driver Installation (Manual)


1. Connect the modem and PC's USB port with supplied USB cable.

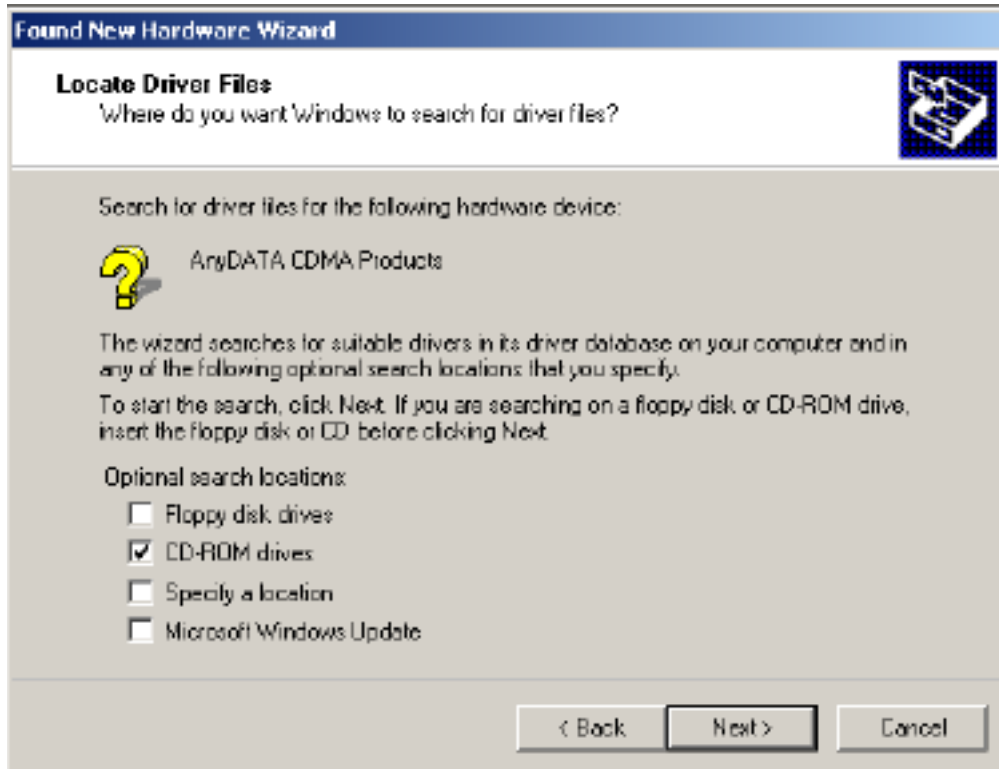
※ The manual driver installation shall be required twice.

2. Installing <AnyDATA USB Modem Driver> window will appear.
Select <Search for a suitable driver for my device (recommended)>.

3. Press  button to move to next step.




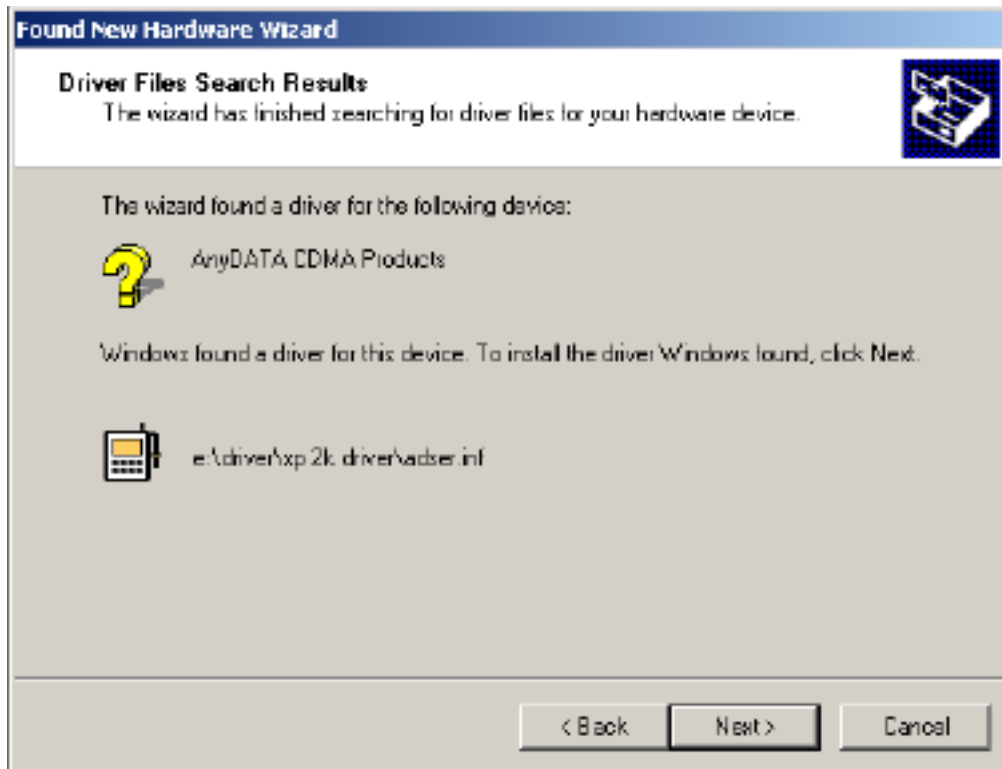
4. A window that displays a proper path of Driver will appear.
Select <CD-ROM drives> and press  button.



5. Select from the CD's path <CD Rom Drive: \\Driver\\> folder for appropriate OS.

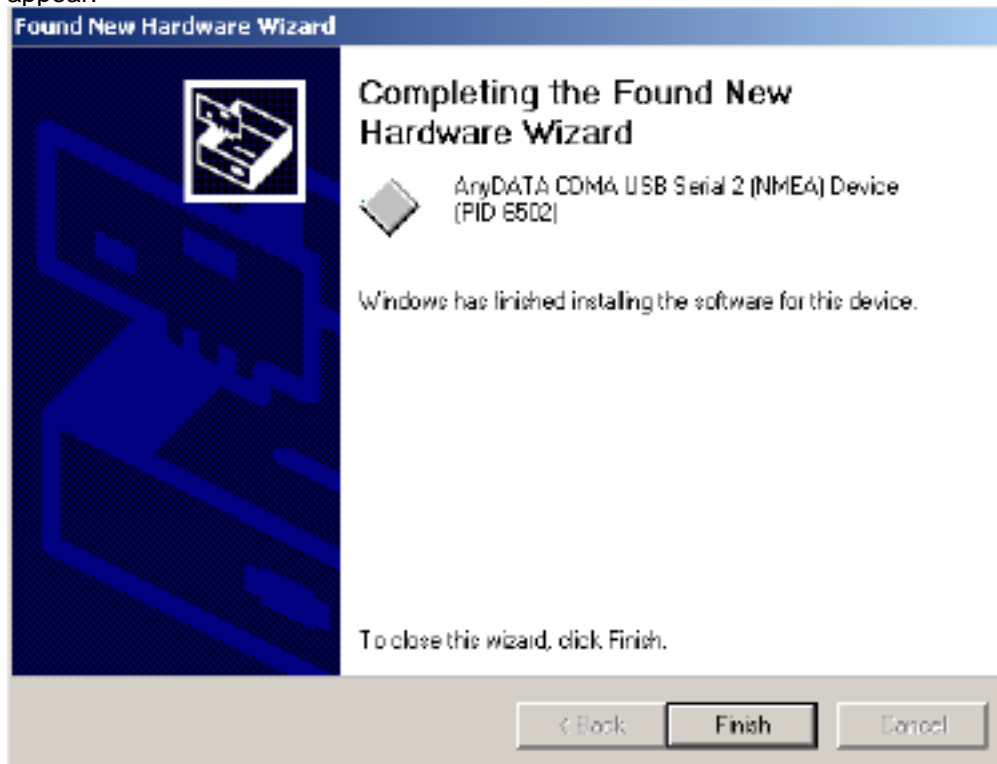
6. A window that searches <AnyDATA CDMA USB Modem> will appear.


7. Press  button to move to next step.

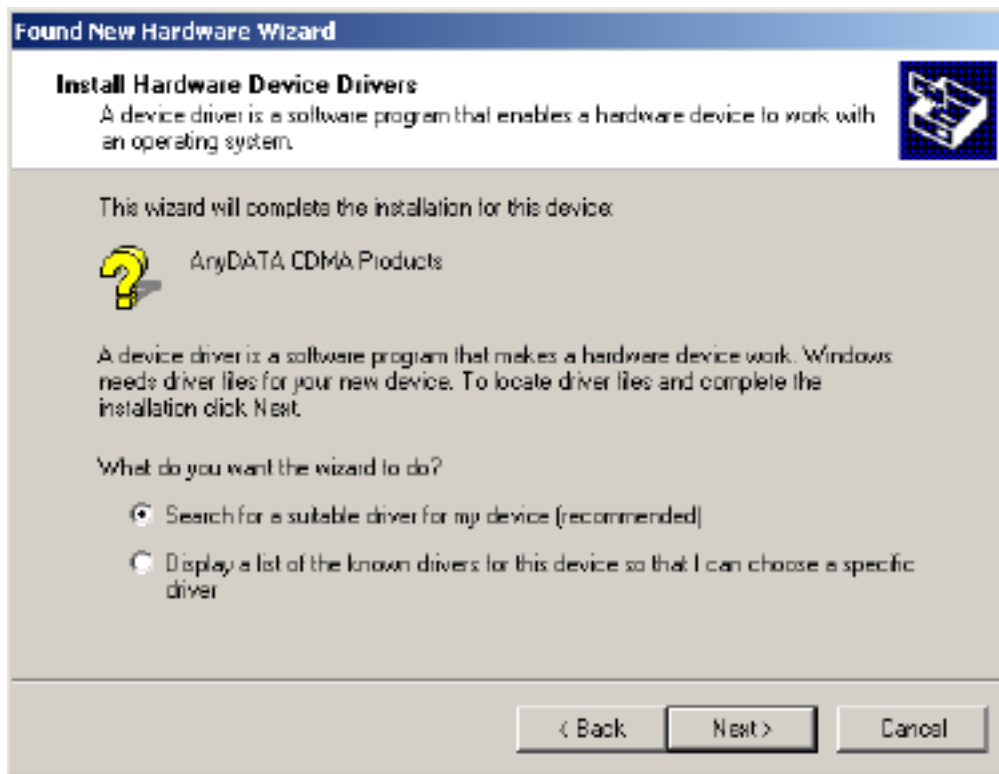



8. Process of installing <AnyDATA CDMA USB Modem>.

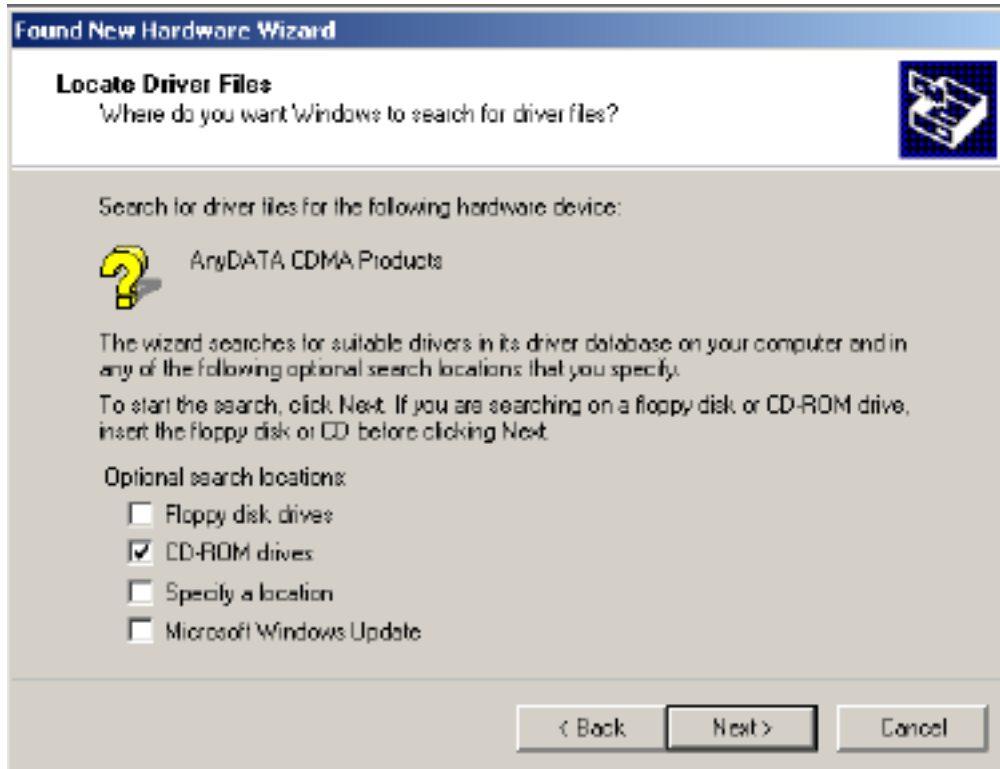
9. If the installation of <AnyDATA CDMA USB Modem> has been completed, following window will appear.




10. Next, it will install <AnyDATA CDMA USB Serial Device>.
11. Select < Search for a suitable driver for my device (recommended) >.
12. Press  button to move to next step.



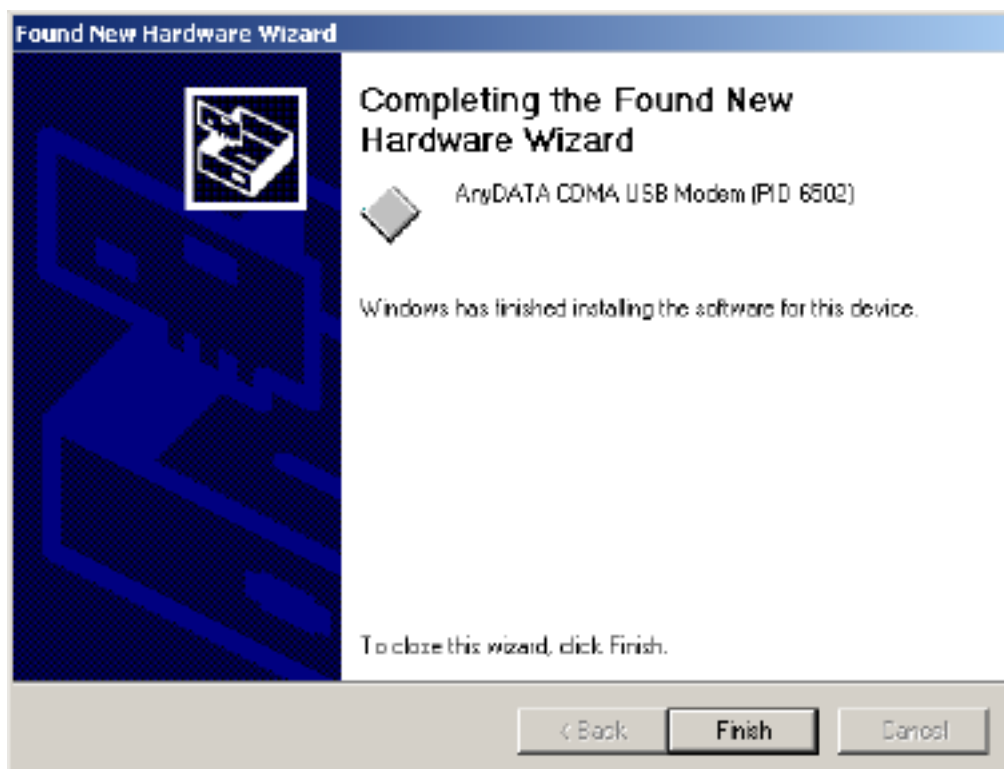
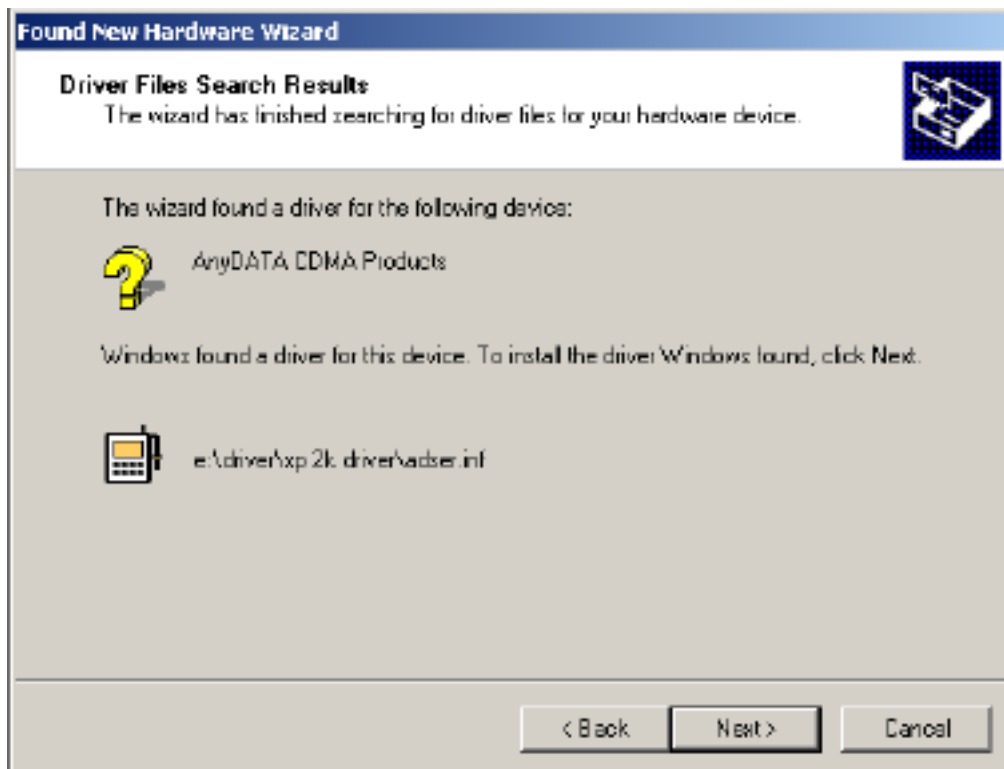
13. A window that displays a proper path of Driver will appear.
Select <CD-ROM drives> and press  button.



14. Select from the CD's path <CD Rom Drive: \\Driver\\> folder for appropriate OS.
15. Press  button to move to next step.

16. Window that searches <AnyDATA CDMA USB Serial Device> will appear.

17. Press  button to move to next step.

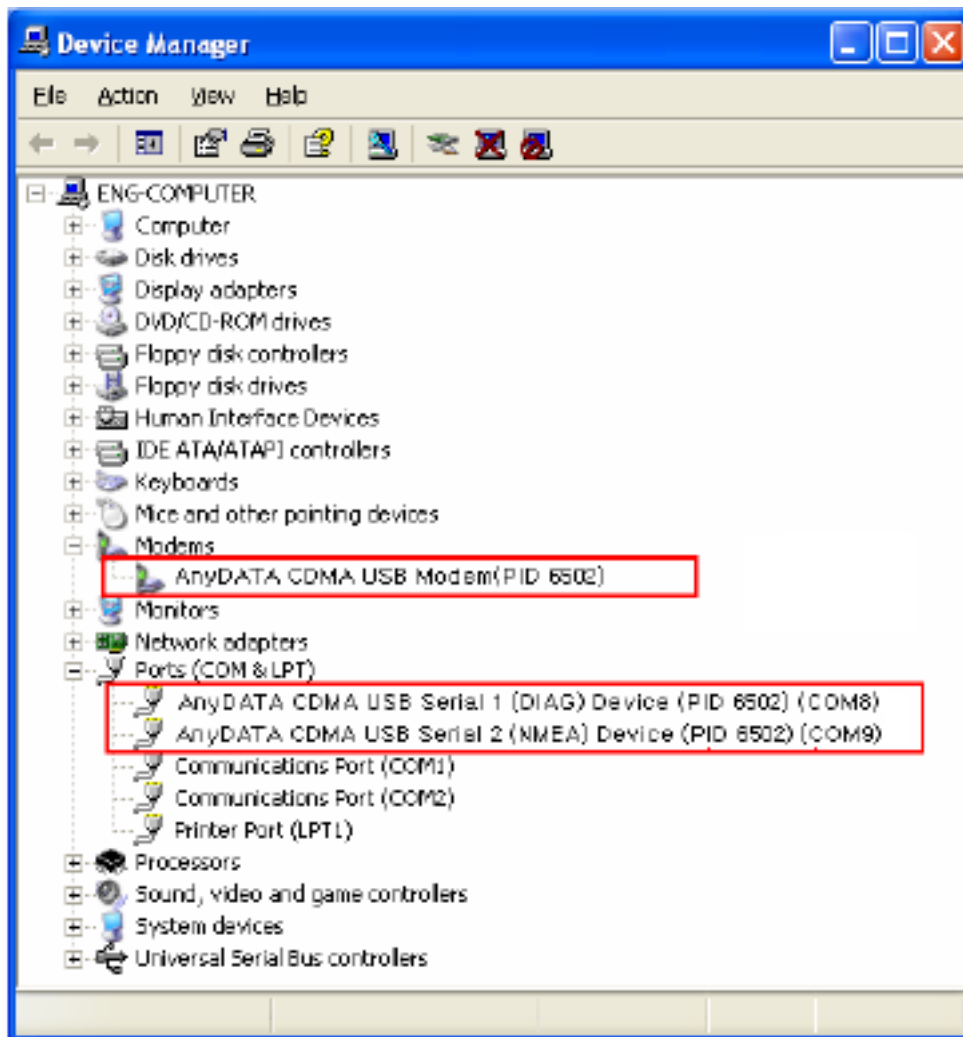


This will complete the driver installation.

18. Connect the modem and PC's USB port, and check if the driver is installed properly in <Device Manager>. See the followings to the location of <Device Manager>


[Start ► Control Panel ► System ► Hardware Tab ► Device Manager]

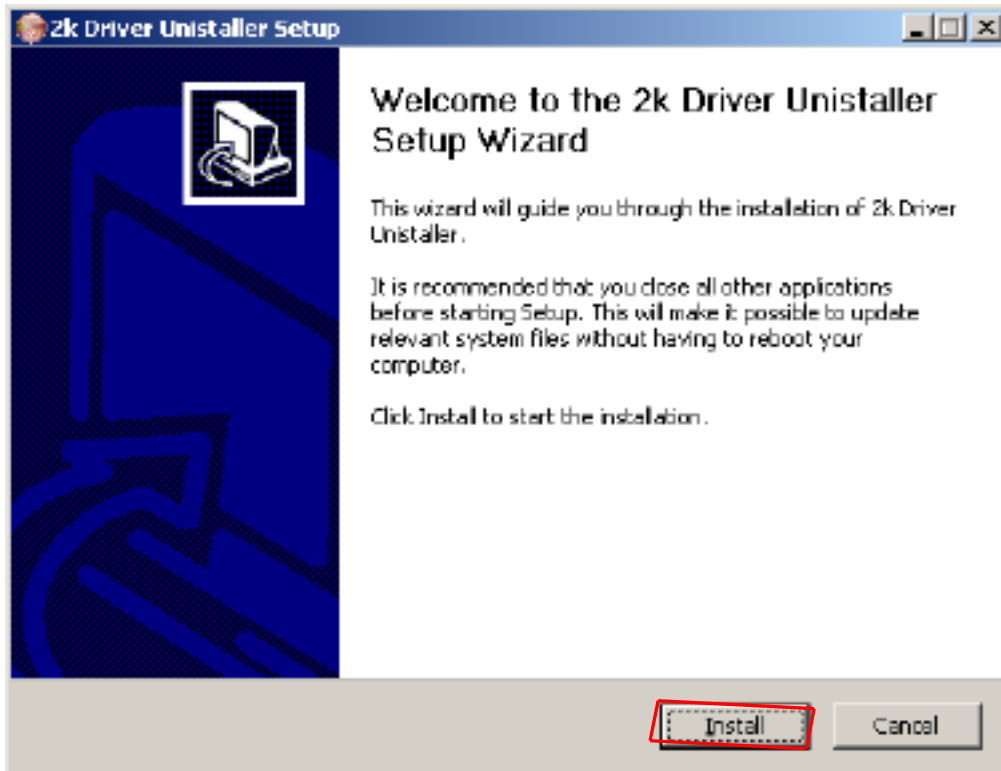
As shown in below with red boxed that shows <AnyDATA CDMA USB Modem> and <AnyDATA CDMA USB Serial 1/2 Device>, the driver has been successfully installed.



3.3.3 USB Driver Uninstall

1. Disconnect the modem from USB port before uninstalling the driver.

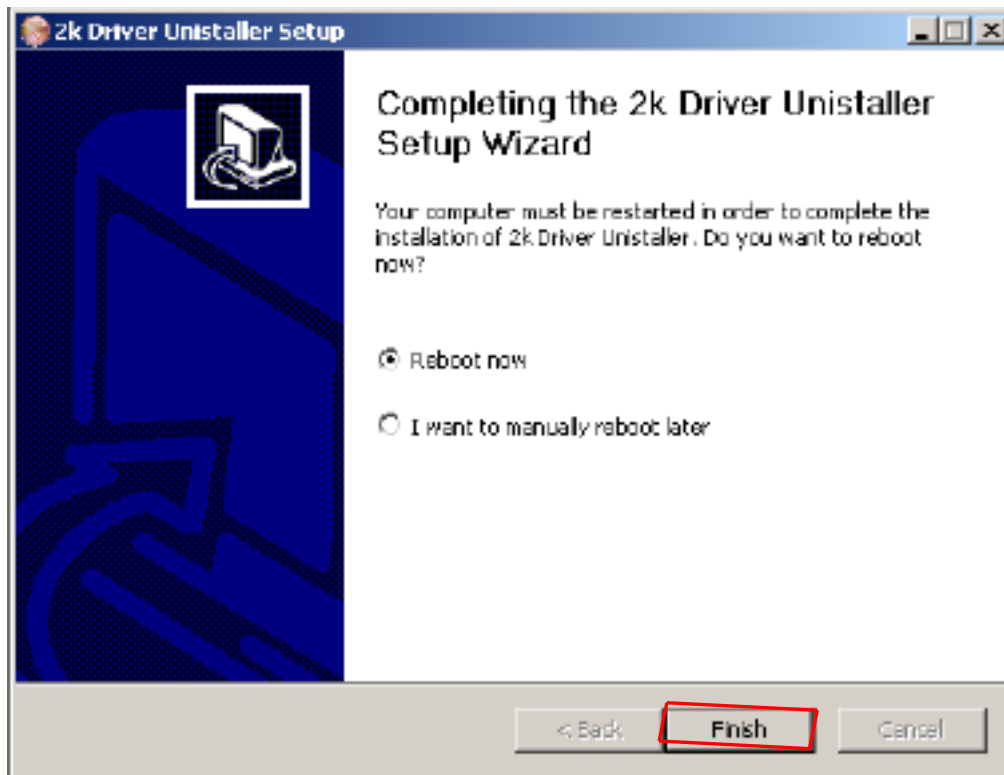
2. By clicking on  Uninstall Driver under the driver folder in CD, this will start as shown below.



3. Select <Install> to uninstall the driver.

To stop removing the driver, select <Cancel>.

4. As shown below, click <Finish> then the driver will be uninstalled.



5. The computer must restart after the driver is uninstalled.

3.4 USB Driver Installation and Uninstall (Windows XP)

3.4.1 USB Driver Installation (Automatic)

1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click <Install Modem Driver> on the menu.



2. The computer needs to restart after the driver installation completed.

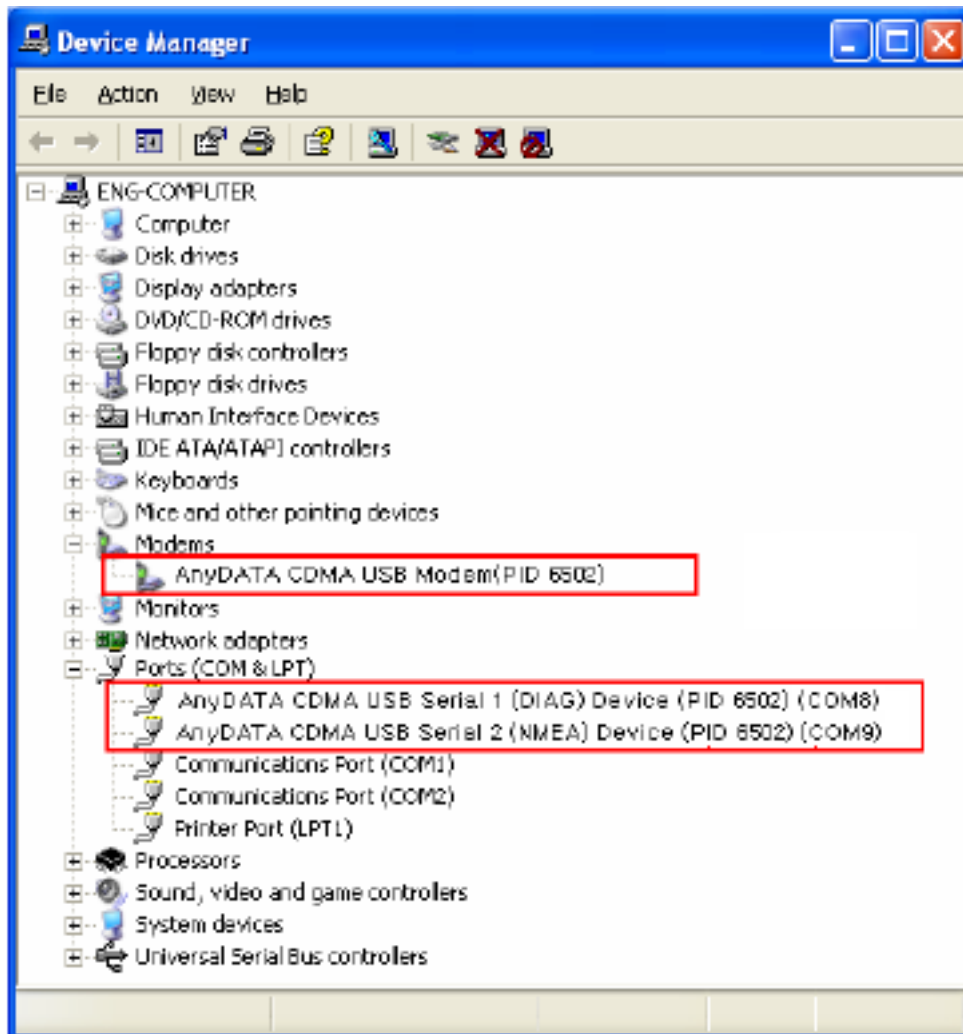
To restart the computer later, select <I want to manually reboot later>.



3. Connect the modem and PC's USB port, and check if the driver is installed properly in <Device Manager>. See the followings to the location of <Device Manager>

[Start ► Control Panel ► System ► Hardware Tab ► Device Manager]

As shown in below with red boxed that shows <AnyDATA CDMA USB Modem> and <AnyDATA CDMA USB Serial 1/2 Device>, the driver has been successfully installed.

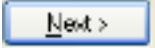


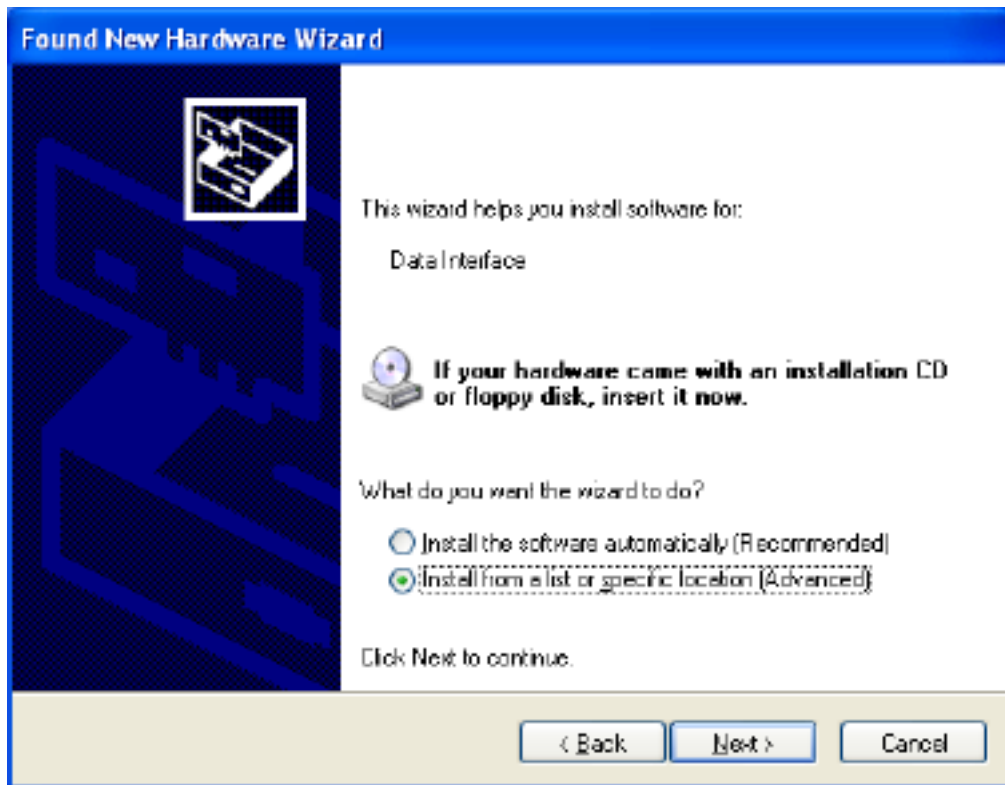
3.4.2 USB Driver Installation (Manual)

1. Connect the modem and PC's USB port with supplied USB cable.

※ The manual driver installation shall be required twice.

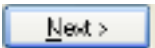
2. Installing <AnyDATA USB Modem Driver> window will appear.
Select <Install from a list or specific location (Advanced)>.

3. Press  button to proceed.

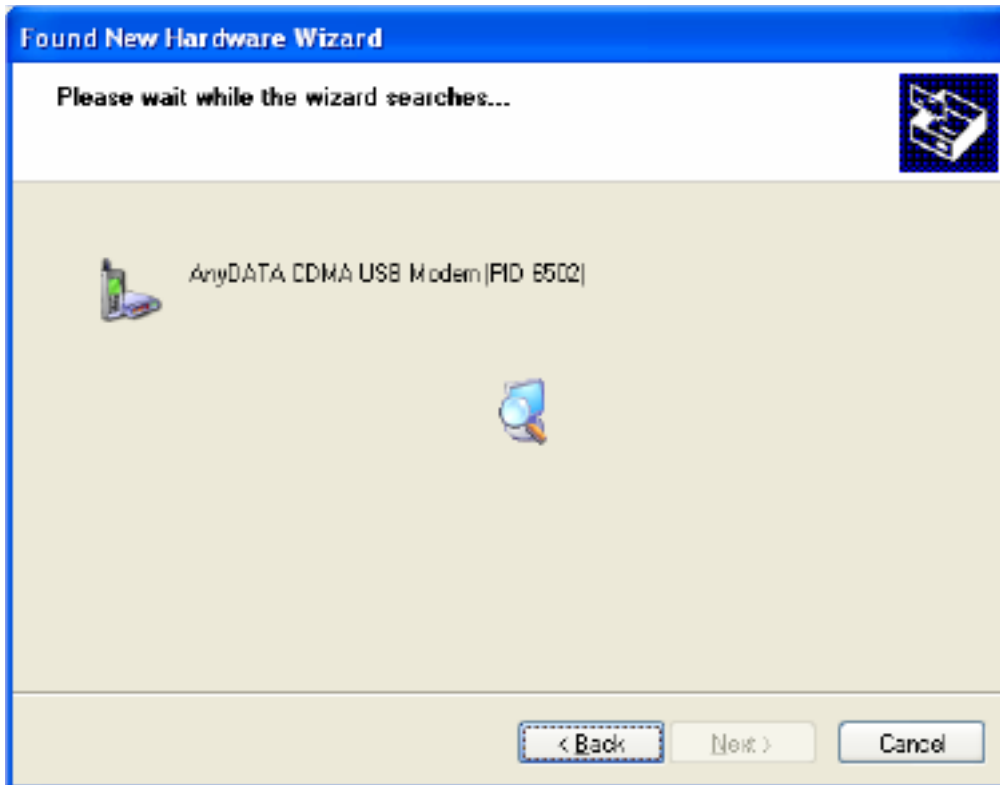


4. A window that displays a proper path of Driver will appear.

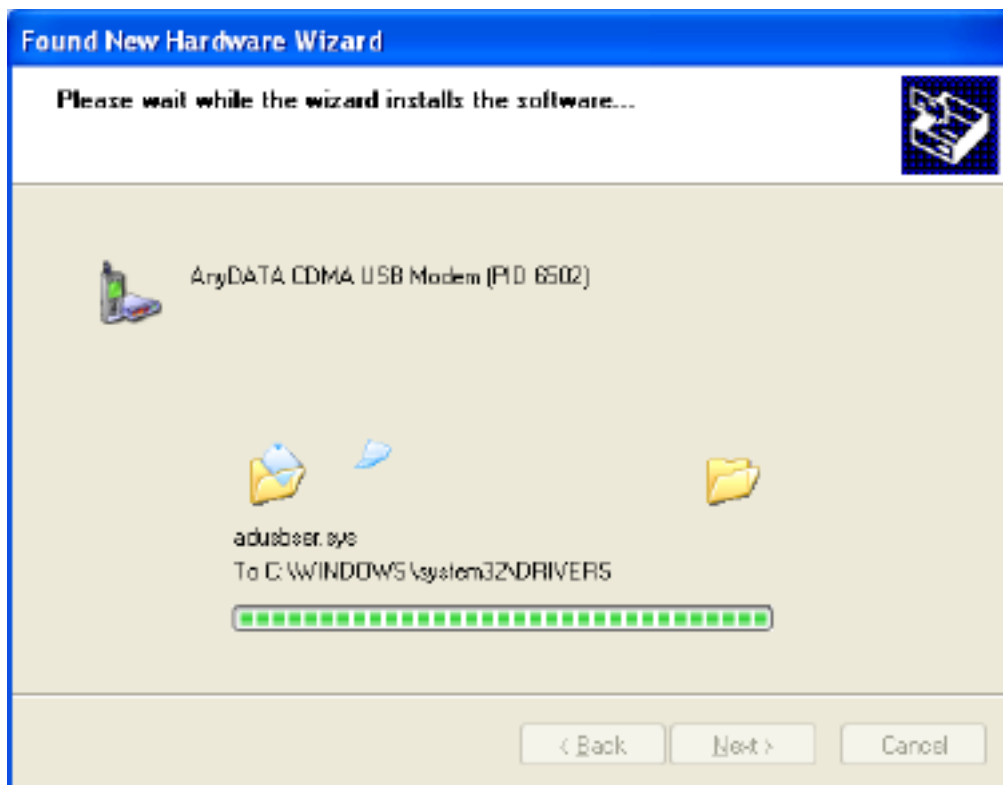
5. Select from the CD's path <CD Rom Drive: \\Driver\\> folder for appropriate OS.

6. Press  button to proceed.

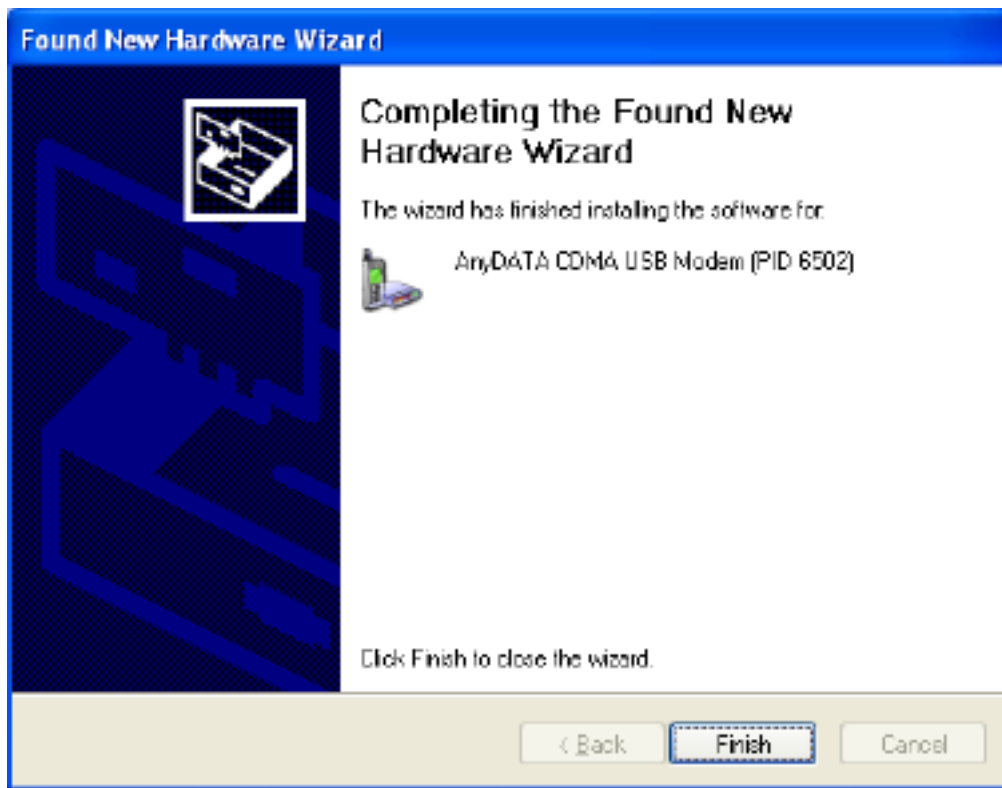
7. A window that searches <AnyDATA CDMA USB Modem> will appear.



8. Process of installing <AnyDATA CDMA USB Modem>.



9. If the installation of <AnyDATA CDMA USB Modem> has been completed, following window will appear.



10. Next, it will install <AnyDATA CDMA USB Serial Device>.
11. Select <Install from a list or specific location (Advanced)>.

12. Press  button to proceed.

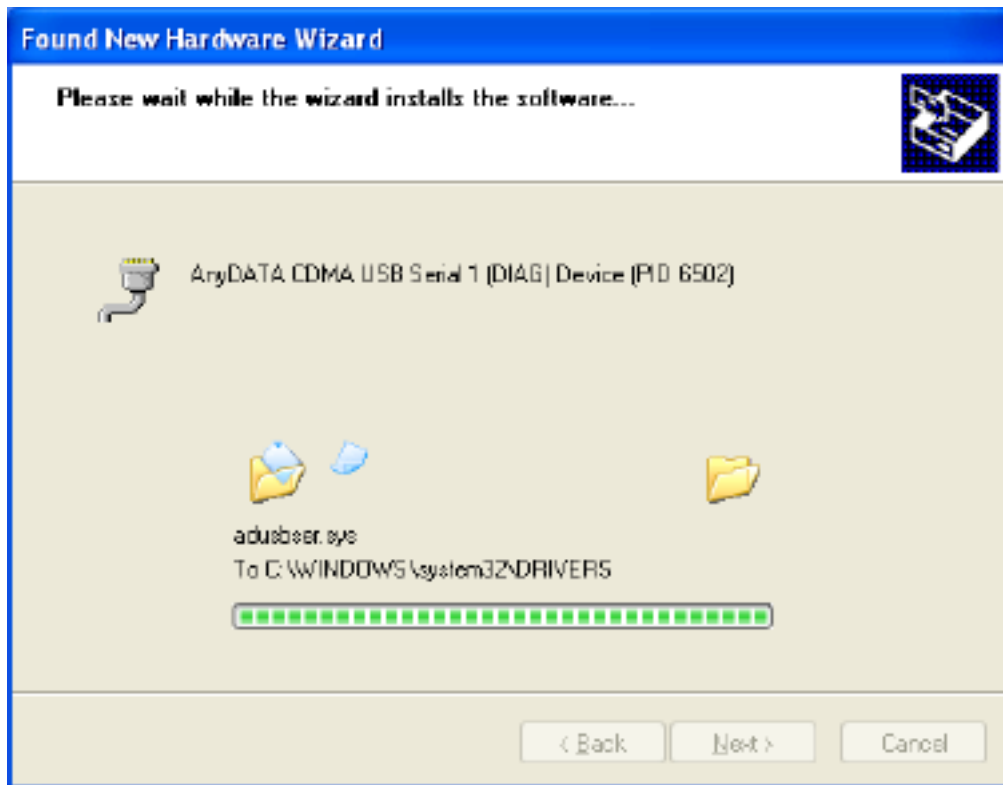


13. Select the proper path from the CD window will appear.

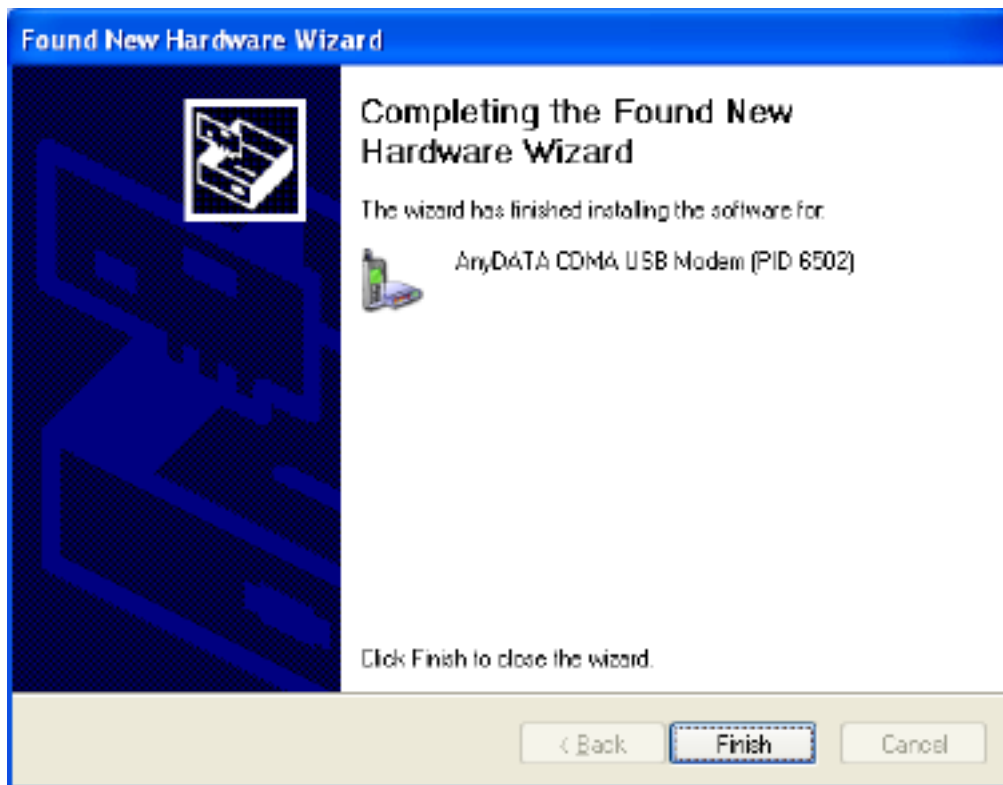
14. Select from the CD's path <CD Rom Drive: \\Driver\\> folder for appropriate OS.

15. Press  button to move to next step.

16. Window that searches <AnyDATA CDMA USB Serial Device> will appear.



17. If the installation has done properly, this window will appear.

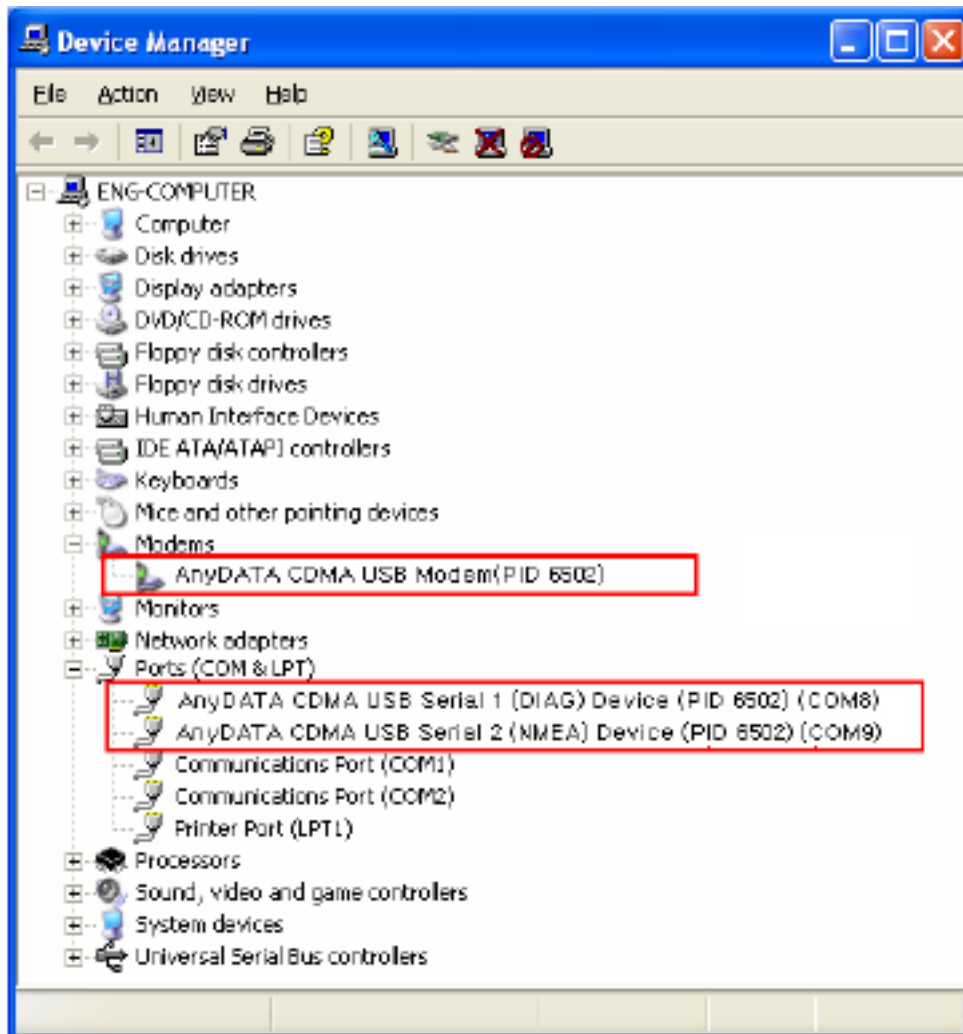


This will complete the driver installation.

22. Connect the modem and PC's USB port, and check if the driver is installed properly in <Device Manager>. See the followings to the location of <Device Manager>


[Start ► Control Panel ► System ► Hardware Tab ► Device Manager]

As shown in below with red boxed that shows <AnyDATA CDMA USB Modem> and <AnyDATA CDMA USB Serial 1/2 Device>, the driver has been successfully installed.



3.4.3 USB Driver Uninstall

1. Disconnect the modem from USB port before uninstalling the driver.

2. By clicking on  Uninstall Driver under the driver folder in CD, this will start as shown below.



3. Select <Install> to uninstall the driver.

To stop removing the driver, select <Cancel>.

4. As shown below, click <Finish> then the driver will be uninstalled.



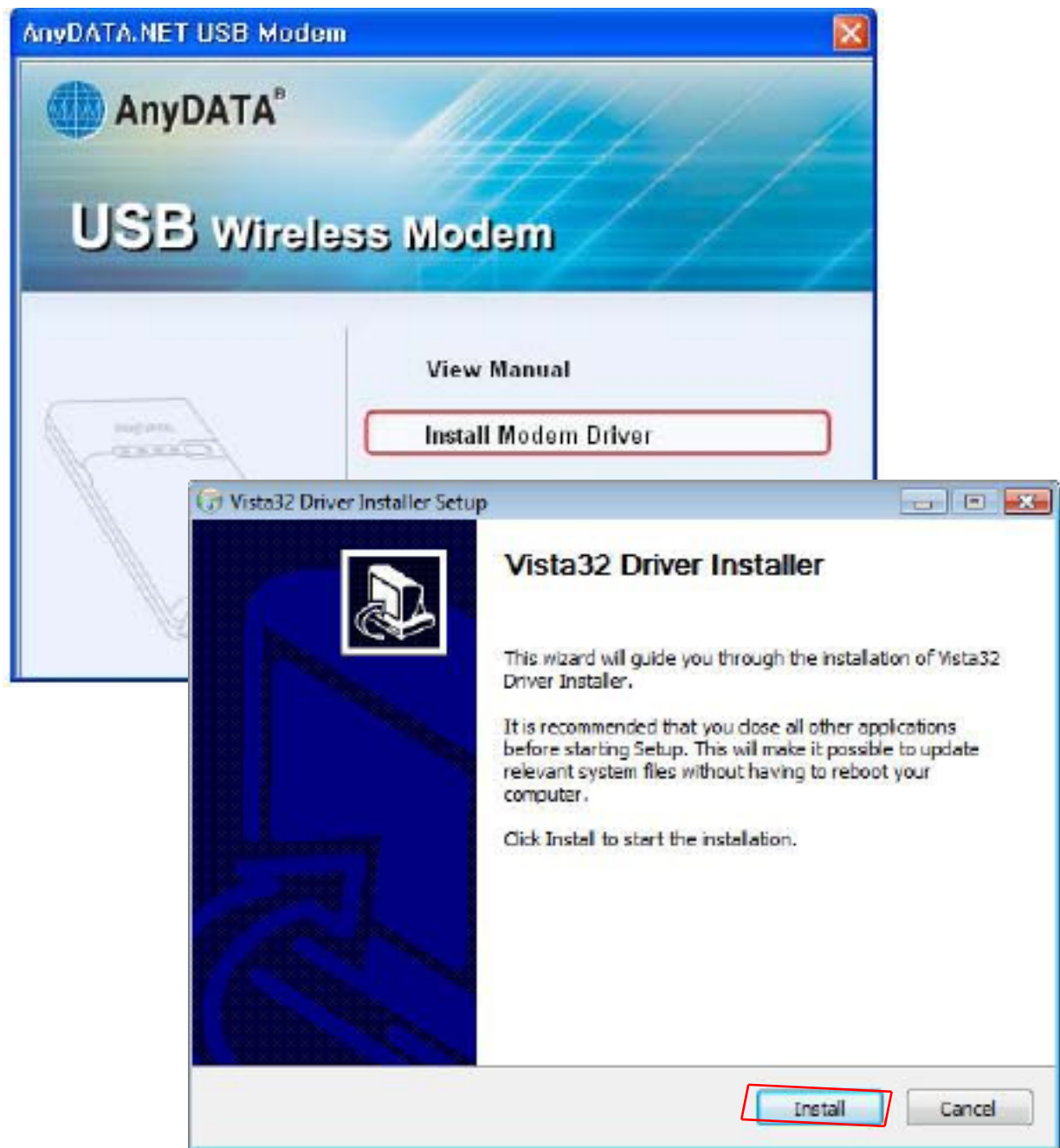
5. The computer must restart after the driver is uninstalled.

3.5 USB Driver Installation and Uninstall (Windows Vista)

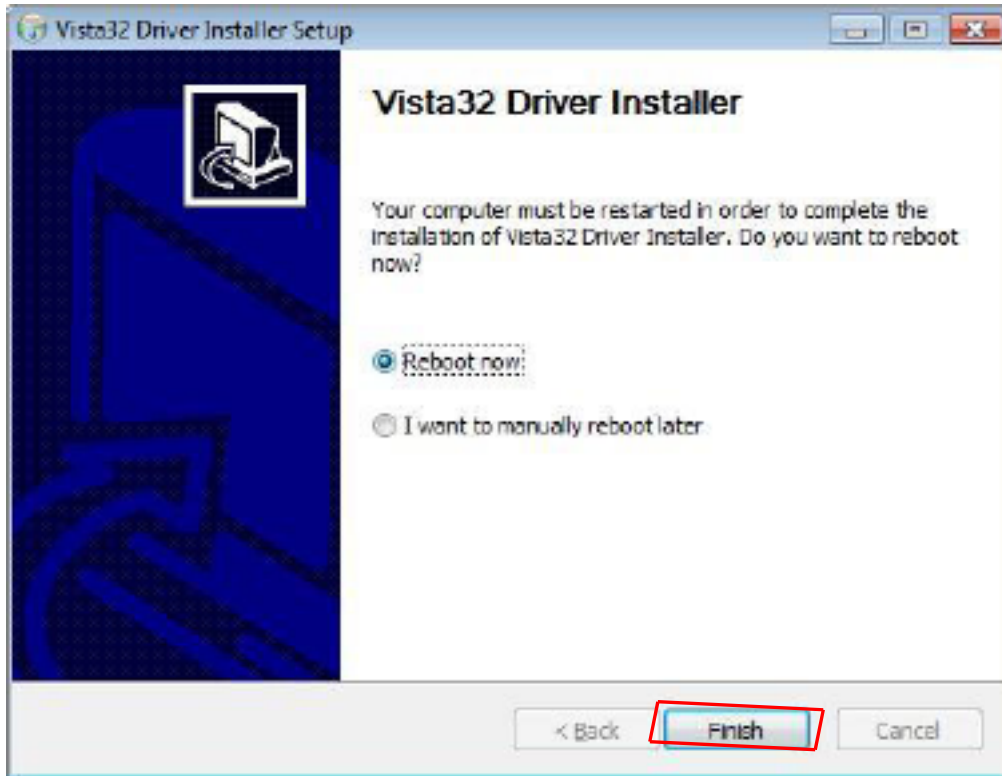
※ The same will apply to Windows Vista 64bit.

3.5.1 USB Driver Installation (Automatic)

1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click <Install Modem Driver> on the menu.



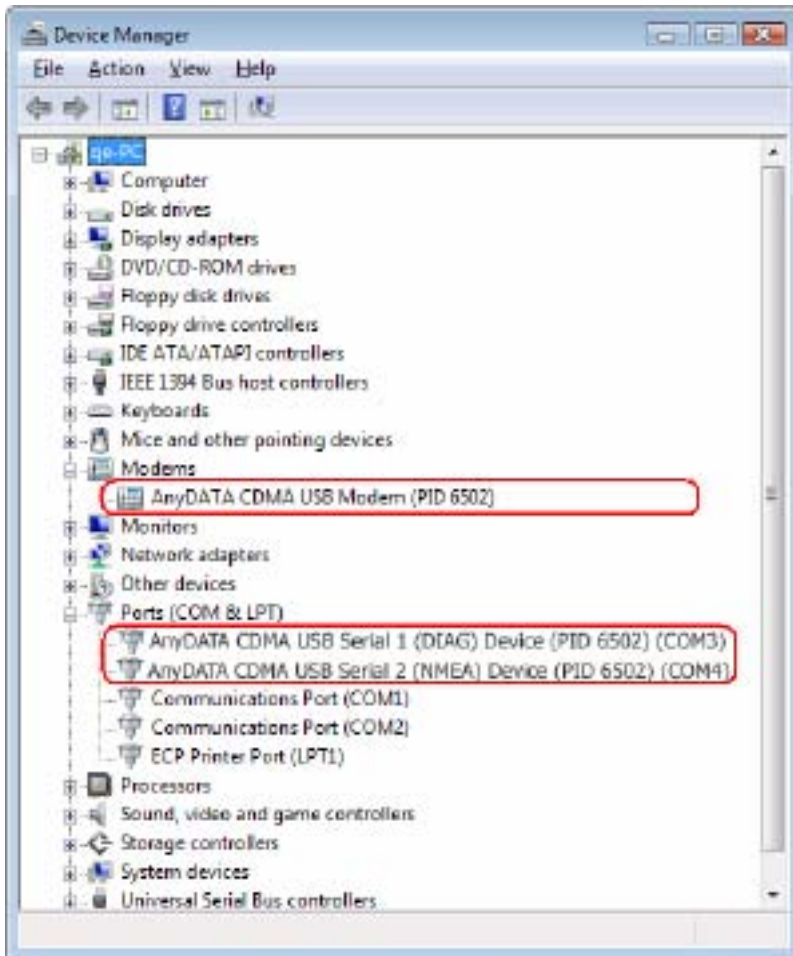
2. The computer needs to restart after the driver installation completed.
To restart the computer later, select <I want to manually reboot later>.



3. Connect the modem and PC's USB port, and check if the driver is installed properly in <Device Manager>. See the followings to the location of <Device Manager>

[Start ► Control Panel ► System and Maintenance ► Device Manager]

As shown in below with red boxed that shows <AnyDATA CDMA USB Modem> and <AnyDATA CDMA USB Serial Device>, the driver has been successfully installed.

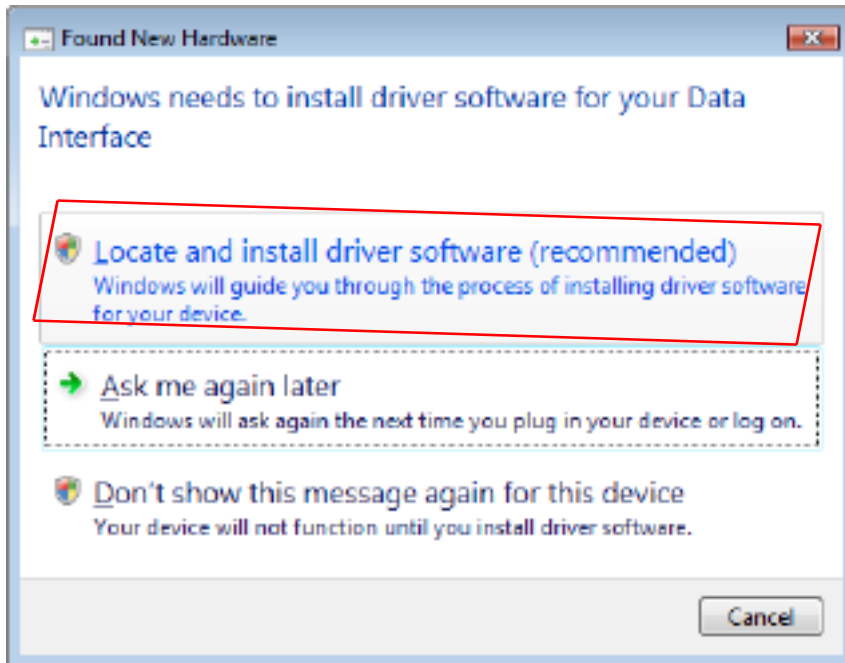


3.5.2 USB Driver Installation (Manual)

1. Connect the USB Modem to the computer.

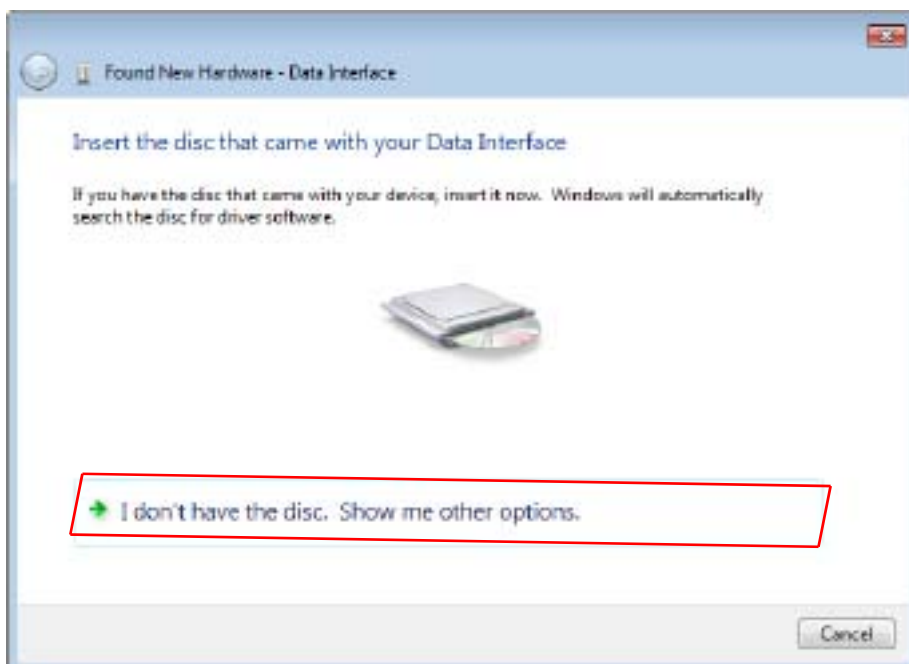
※ The manual driver installation shall be required twice.

2. Click <Locate and install driver software (recommended)> when shown in below.

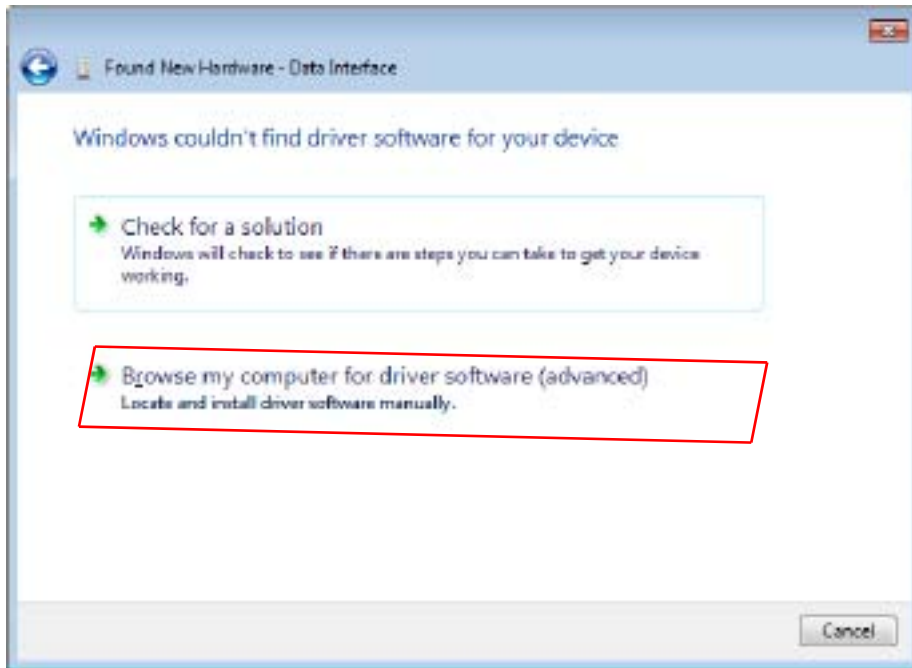


3. Click <Continue> when <User Account Control> is shown.

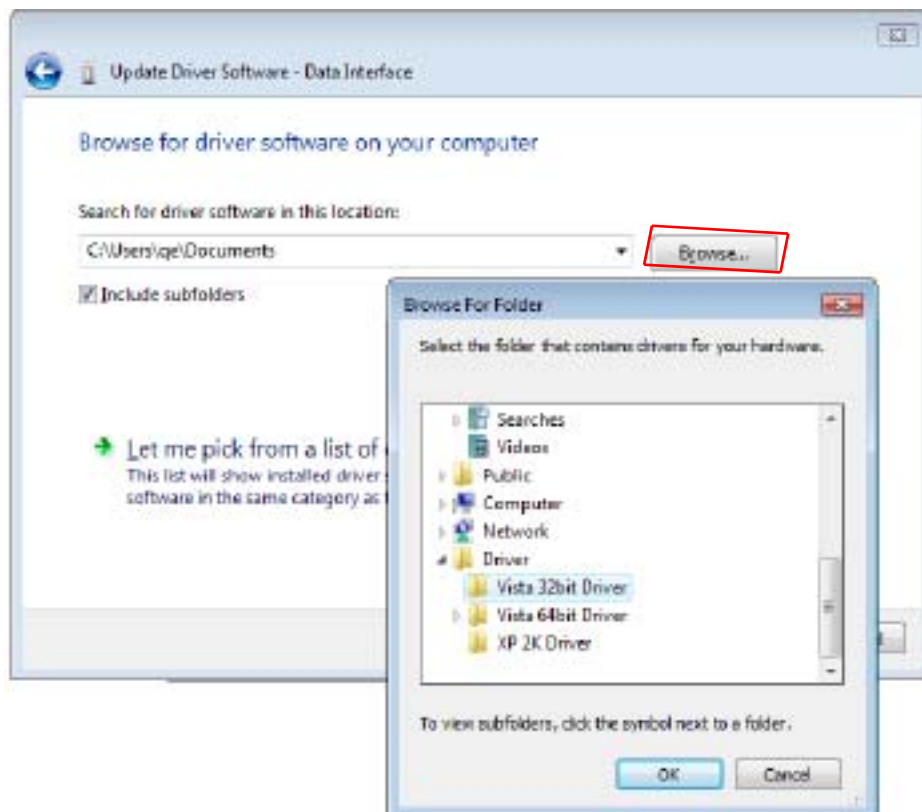
4. Click <I don't have the disc. Show me other options.> as shown below.



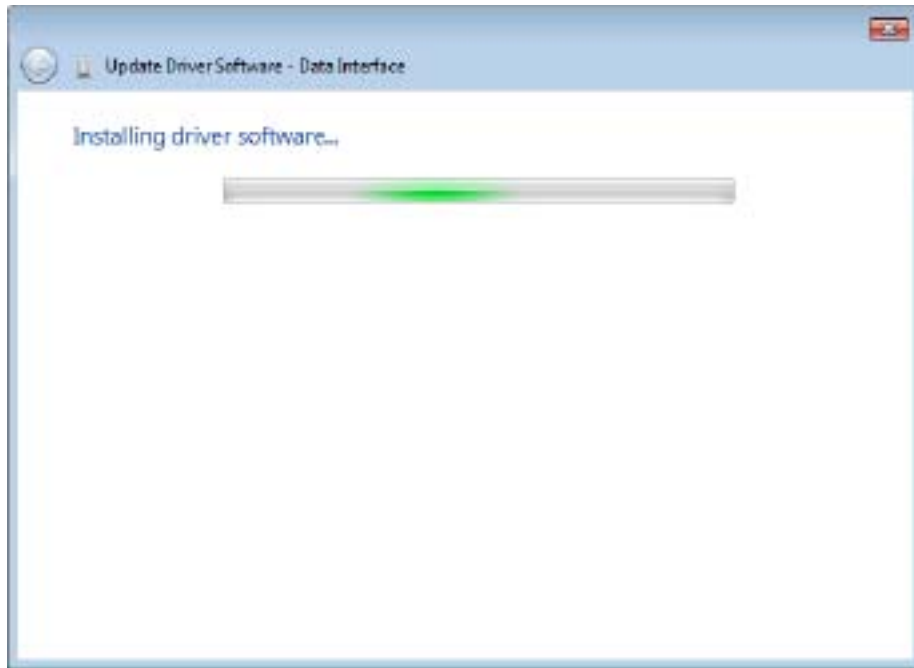
5 Click <Browse my computer for driver software (advanced)>.



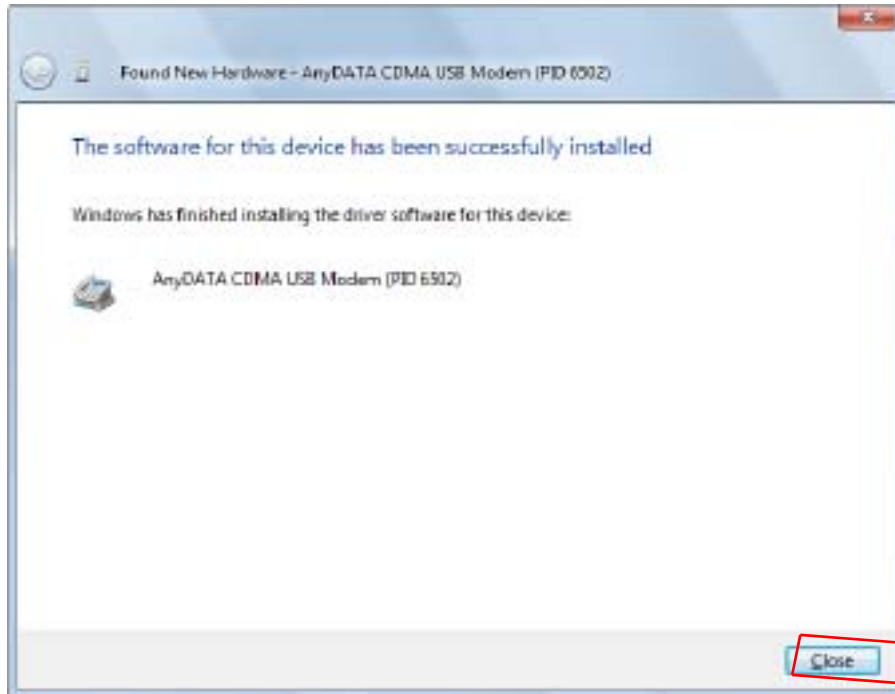
6. Click <Browse> and click <Next> as shown below.



7. <Installing driver software> will be shown as below.

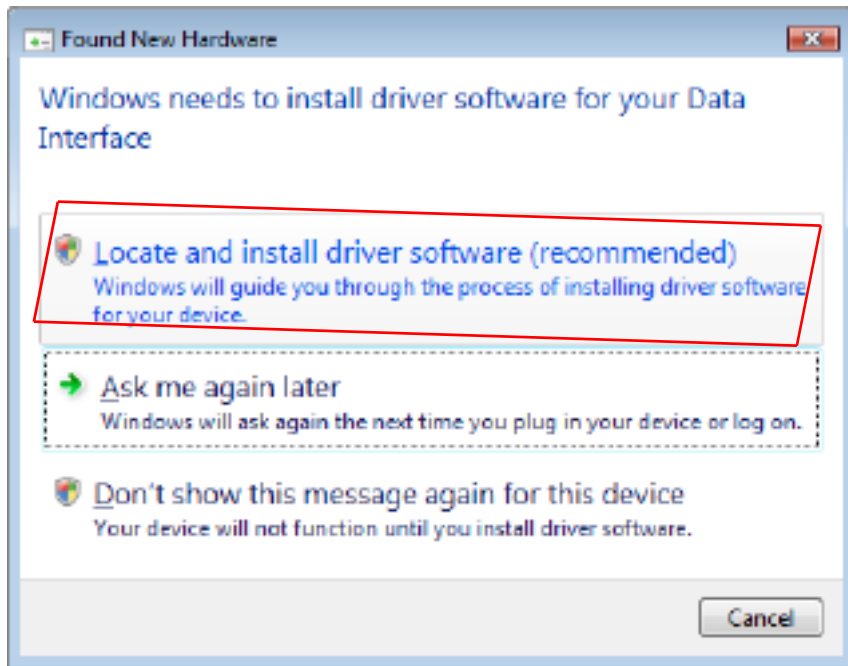


8. Click <close> if driver will be installed successfully as shown below.



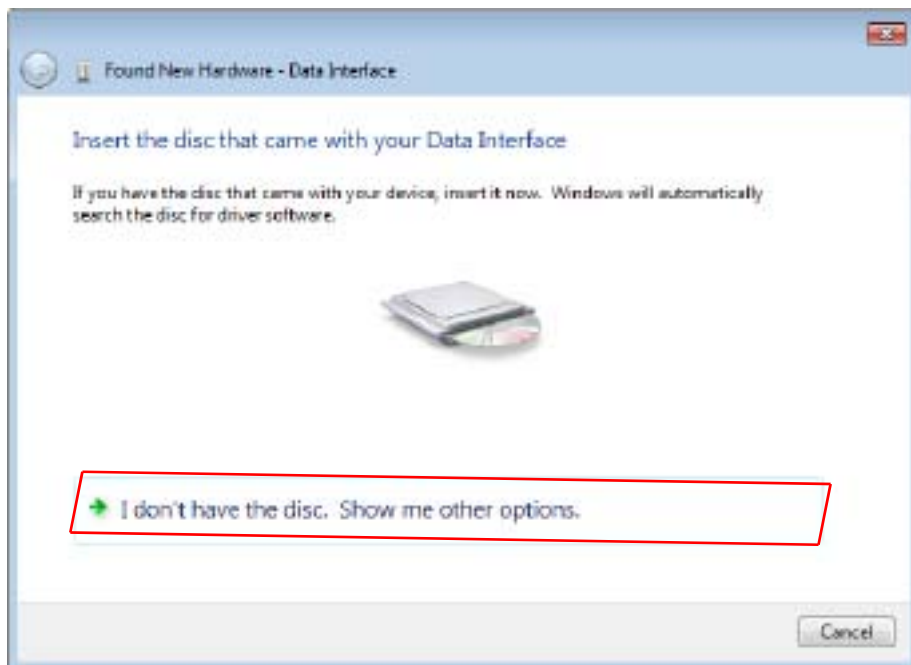
※ After the Windows shown above, the driver installation is required one more time.

9. Click <Locate and install driver software (recommended)> when shown below.

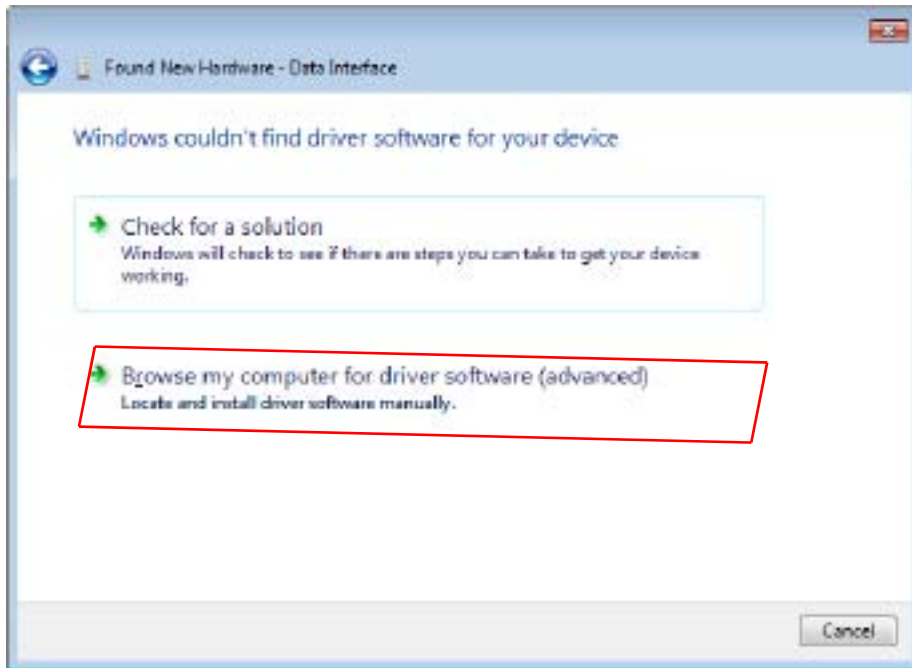


10. Click <Continue> when <User Account Control> is shown.

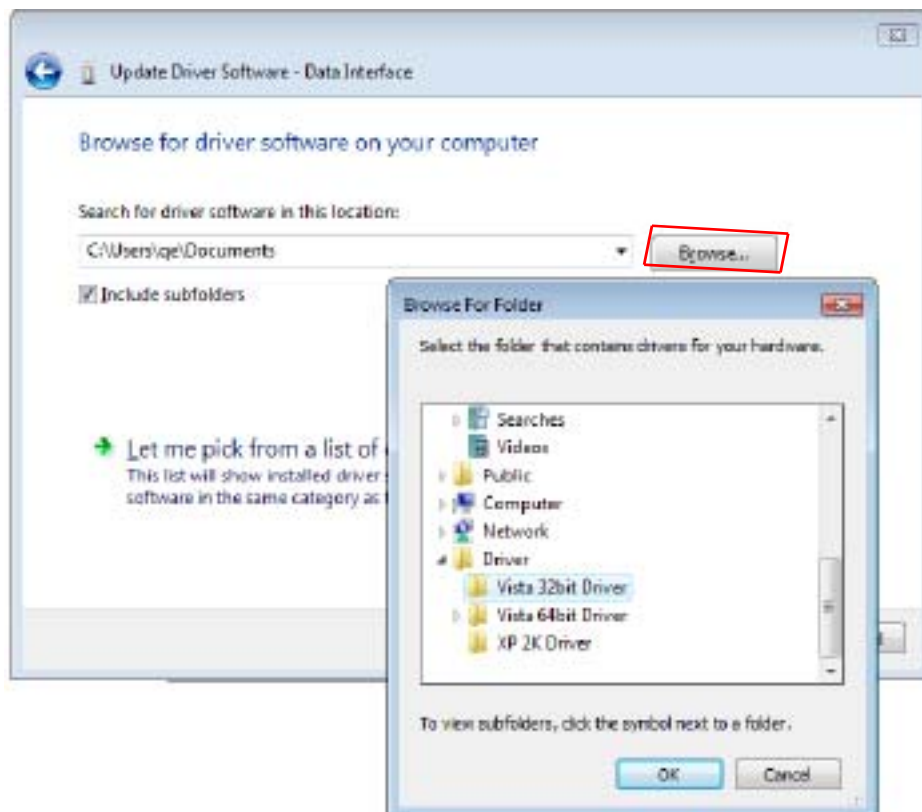
11. Click <I don't have the disc. Show me other options.>



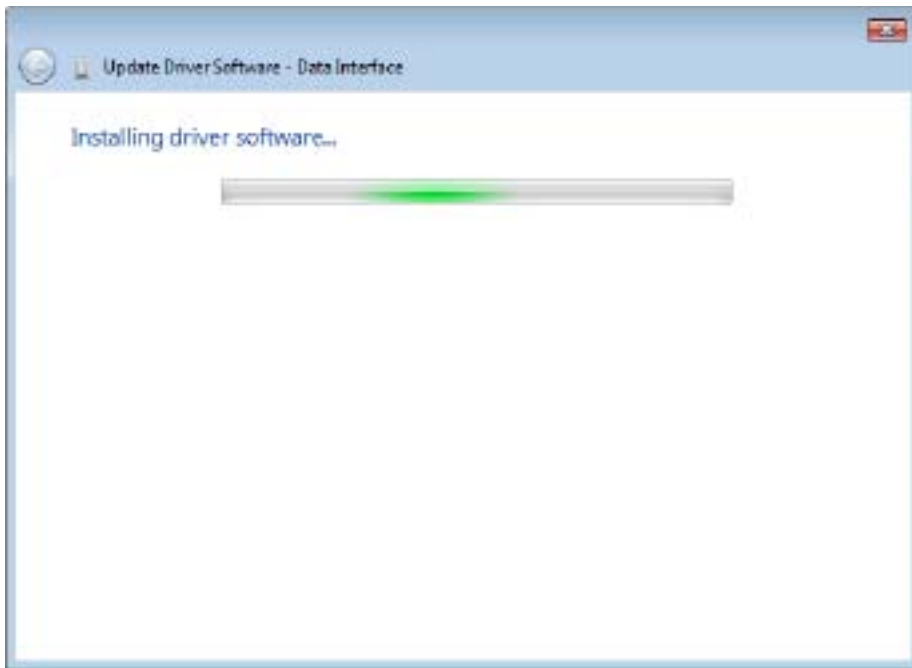
12 Click <Browse my computer for driver software (advanced)>.



13. Click <Browse> and click <Next> as shown below.



14. <Installing driver software> will be shown as below.



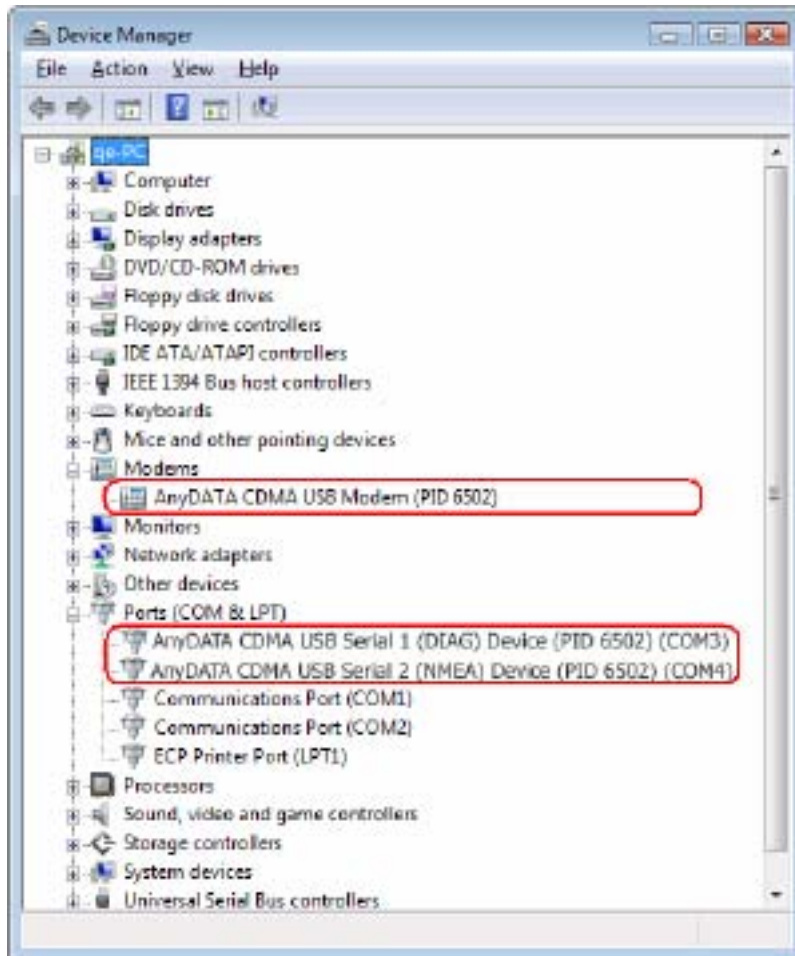
15. Click <close> when the driver will be installed successfully as shown below.



16. Connect the modem and PC's USB port, and check if the driver is installed properly in <Device Manager>. See the followings to the location of <Device Manager>


[Start ► Control Panel ► System and Maintenance ► Device Manager]

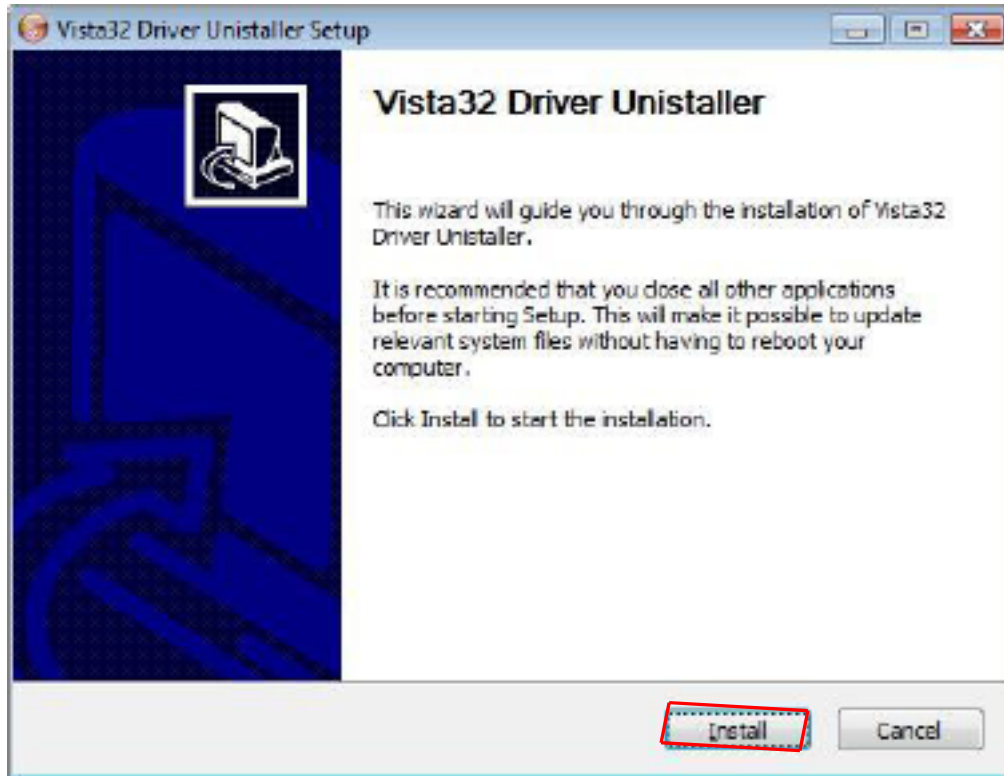
As shown in below with red boxed that shows <AnyDATA CDMA USB Modem> and <AnyDATA CDMA USB Serial Device>, the driver has been successfully installed.



3.5.3 USB Driver Uninstall

1. Disconnect the modem from USB port before uninstalling the driver.

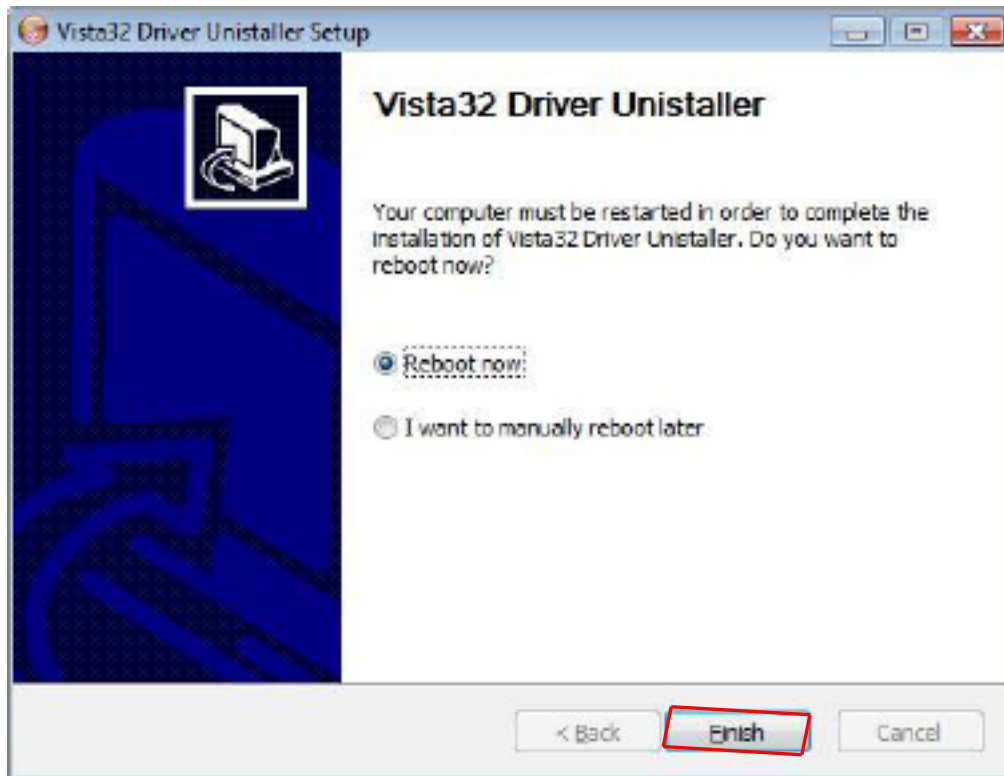
2. By clicking on  Uninstall Driver under the driver folder in CD, this will start as shown below.



3. Select <Install> to uninstall the driver.

To stop removing the driver, select <Cancel>.

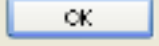
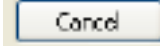
4. As shown below, click <Finish> then the driver will be uninstalled.



5. The computer must restart after the driver is uninstalled.

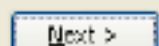
3.6 Installing Easy Wireless Net Software

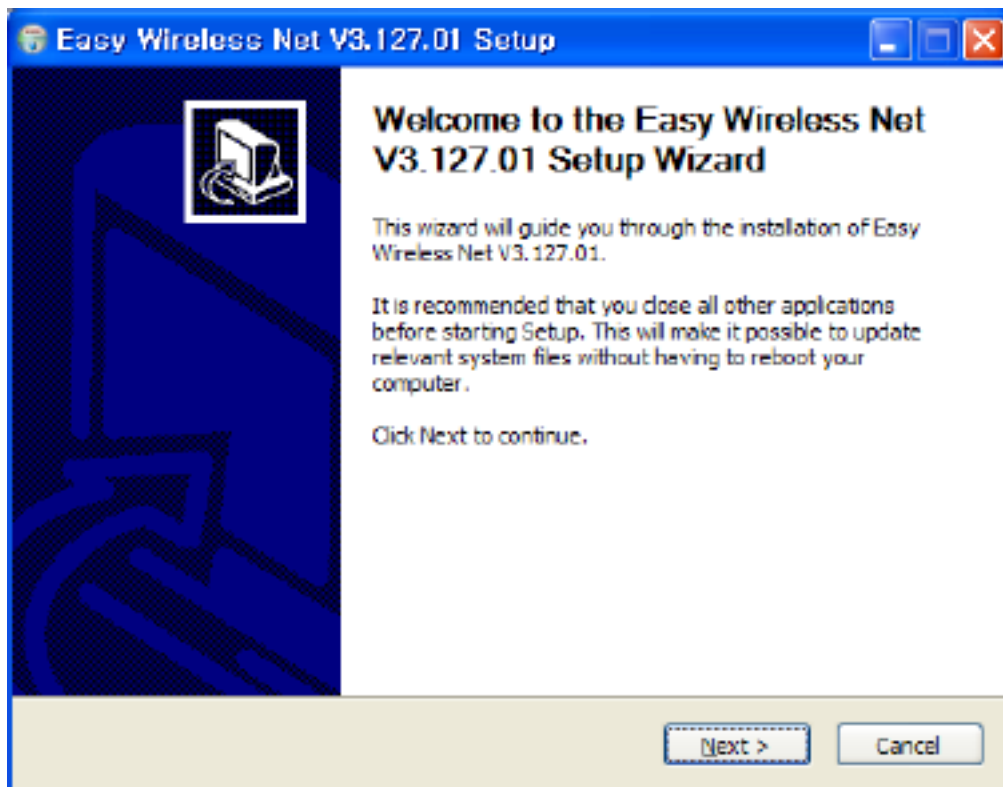
1. Double click <Setup.exe> from the supplied CD.
2. Select the desire language as shown below.

3. Press  button to proceed. By pressing  button, the installation of Easy Wireless Net Program will stop.



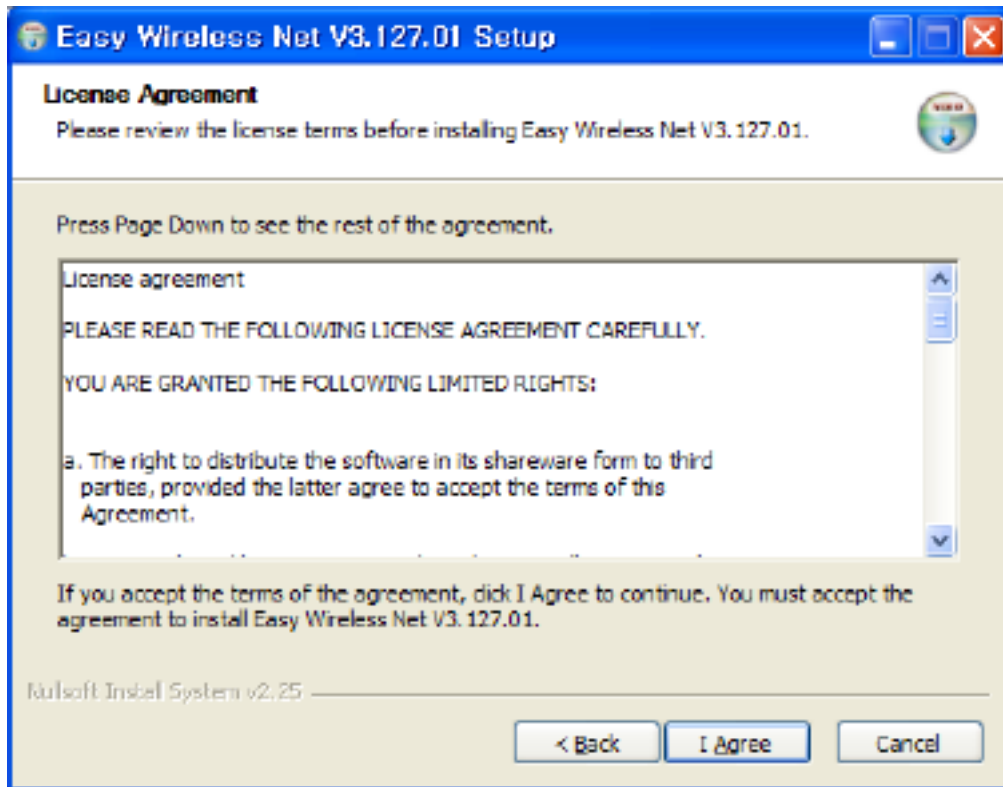
4. Welcoming message for using Easy Wireless Net Program window will appear.

5. Press  button to proceed.



6. Next window is related to License Agreement. Please read carefully.

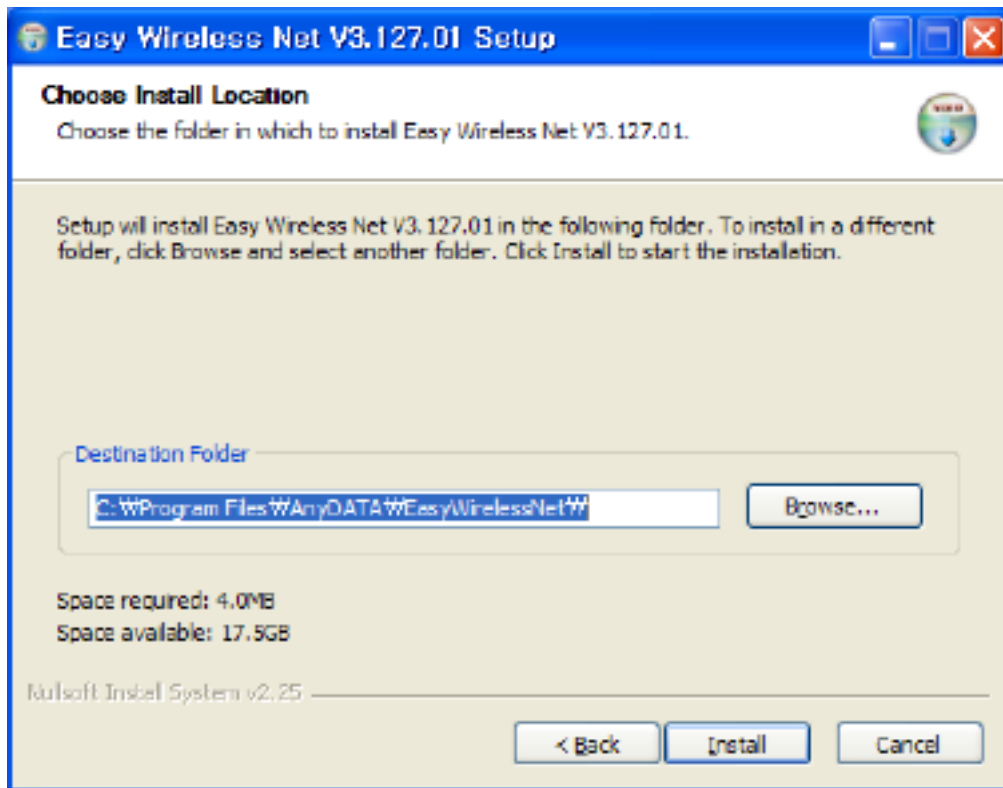
7. Press <I Agree> button to advance to the next step.




8. Next window displays asking proper path for installing the program.

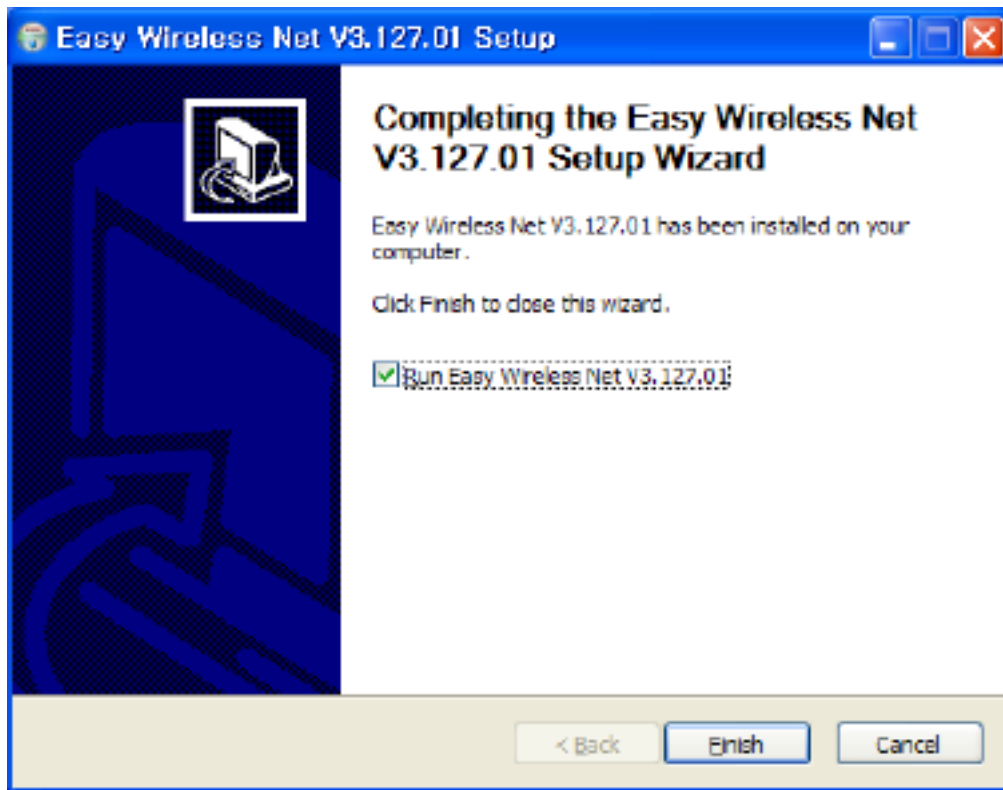
Default path is <C:\\Program Files\\AnyDATA\\
\\EasyWirelessNet>

9. Press  button to install the program.



10. When program has been successfully installed, following window will display.

11. Press  button for ending the program installation.



This is install the Easy Wireless Net Program.

<Remark> If modem is not connected to PC/Notebook and device driver is not installed, then the program will not launch even after completion of installation program.

4. Using Easy Wireless Net Program

4.1 Exiting the program

From the Easy Wireless Net program, by pressing  button will quit the program.



Note:

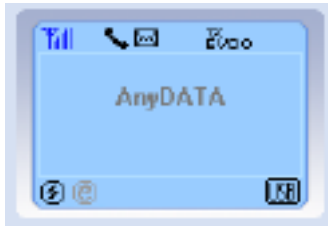
If DUN is running or SMS is transferring, the program will end after the completion of these commands.
















4.2 Screen Display of Easy Wireless Net

4.2.1 Executed Screen




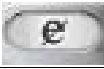



4.2.2 Descriptions of each icon



Display	Function
	RSSI Signal Strength Indicator
	Calling Possible
	Calling not Possible
	New message arrived.
	Voice Mail arrived.
	Voice Mail and New Message arrived.
	Supports Hybrid mode
	Only 1X mode available
	Only EVDO mode available
	USB connected
	Roaming
	Connected to the Modem
	Either the cable is disconnected to the modem or improper port connection.
	Internet connected
	Internet disconnected

4.2.3 Descriptions for each button



Display	Function
	connected to the Internet button.
	Disconnecting to the Internet
	Setup Easy Wireless Net
	SMS menu
	Phonebook Menu

4.2.4 Setting Environment

There are 4 options and please refer to below for explanations.


[About] Tab

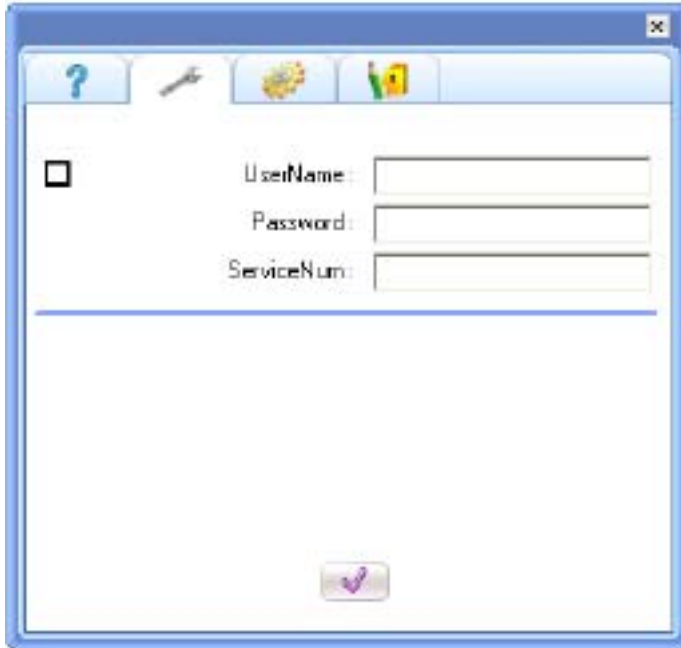
Display the version for Easy Wireless Net program.



[Basic] Tab

The basic configuration for connect to the network using EVDO modem. All values are set automatically, however if wants to change the value then check

☒ appropriate box/boxes in the left and press  button to take effect.



UserName:

Password:

ServiceNum: Internet Connect Dial Number

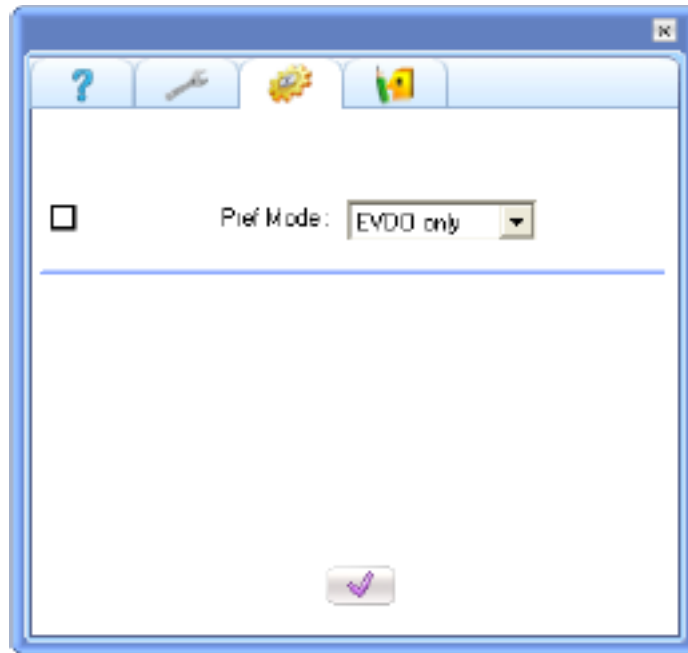
[Advance] Tab

This part is to change the important parameter for EVDO modem.

If wants to change the value then check appropriate ☒ box/boxes in the left and press




button to take effect.

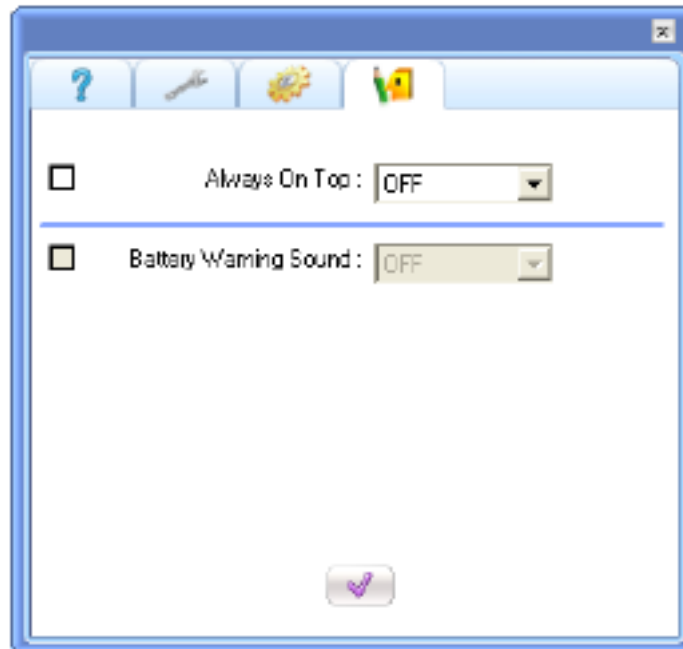


Pref Mode:

Select a mode among <1x only>, <EVDO only> and <1x + EVDO>

[User] Tab

If wants to change the value then check appropriate ☒ box/boxes in the left and press  button to take effect.



Always On Top:


The program window will be always top if <ON> is selected.

Battery Warning Sound:



Disable : Do not use battery warning feature.

4.2.5 Connecting to the Internet

Must set proper UserName, Password, and ServiceNum in the above settings.

Then press  button, it will automatically connected to the Internet.



If the modem is trying to connect or connected to the Internet, this  icon will appear as shown above. If it cannot connect to the Internet, then  icon will appear.

4.2.6 Disconnecting to the Internet

When user is ready to disconnect from the Internet, press  button to end the connection.

Please check the following if abrupt disconnection of modem occurred:

- 1) Did I intentionally disconnect USB modem?
- 2) Are cables properly connected?
- 3) Did I intentionally change Port number in environment settings?
- 4) Did I quit/exit the program?


4.2.7 Sending and Receiving SMS

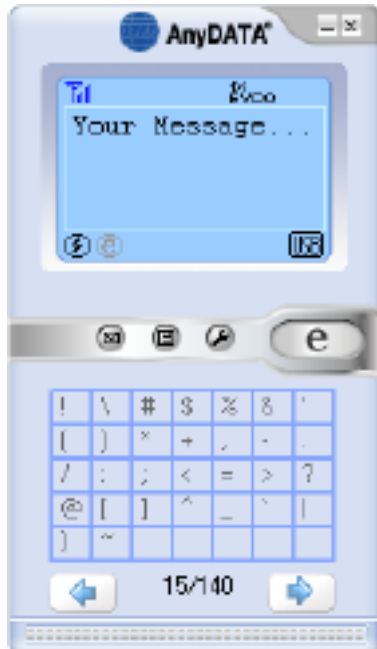
Press  button.



As seen in above, there will be three buttons (new message, sent message, and received message from the left). Pressing each button will transfer to appropriate screen.


4.2.7.1 Writing New Message

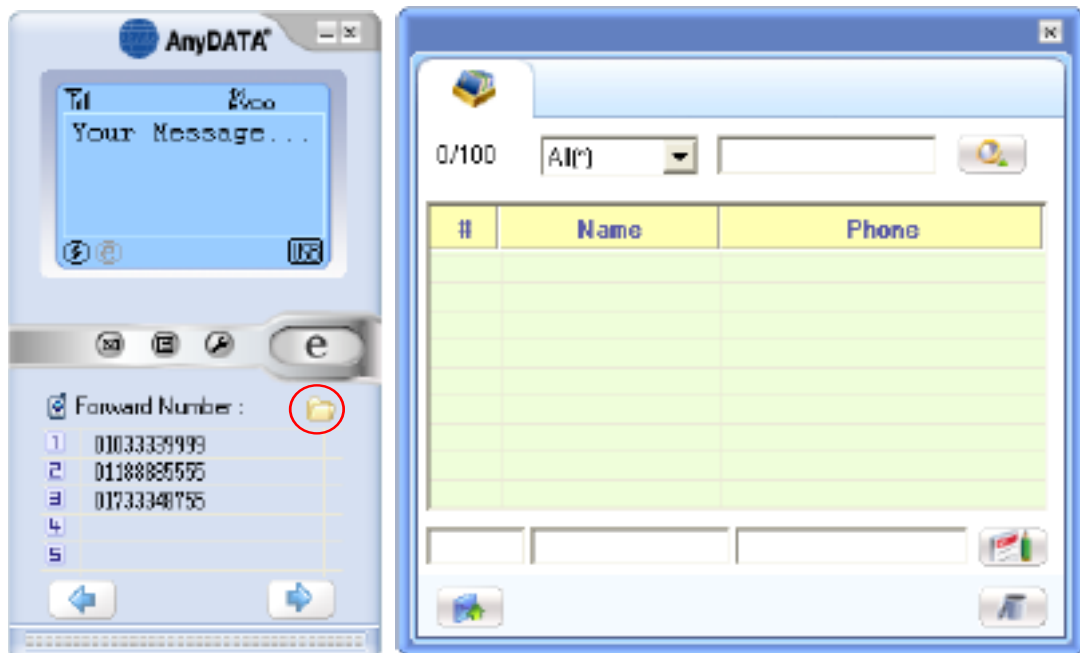
- 1) By pressing <Write Message> icon, the new window will appear for inserting the message.
- 2) Write the message in the window then press  button to move to the next step.



Note:

By pressing special characters that is highlighted, that character will be written on the message window.

- 3) Input a phone number/numbers for sending SMS. It is possible to add upto 5 numbers.
By pressing a Phonebook () button, a separate window will appear to select phone numbers.





- 4) After inserting phone numbers, press  button to move to the next step.
- 5) After selecting the number, press  button to send the message.



Sending Message has failed.



4.2.7.2 Viewing sent message

- 1) By pressing <Outbox> icon, you will see a screen as below.
- 2) All sent messages will be shown.
- 3) Select the message then press  button to delete this message.
- 4) Select the message then press  button to display all the contents in the window.



- 5) By pressing  button, the selected message will be ready to send to a new number.

	Message read.
	Unread message.
	Sent message.

Note:Description of icons.

4.2.7.3 Viewing received or saved message

1) By pressing <InBox> icon, you will see a screen as below.

2) All received messages will be shown.

3) It will indicate whether the message was read or not.

4) Select the message then press

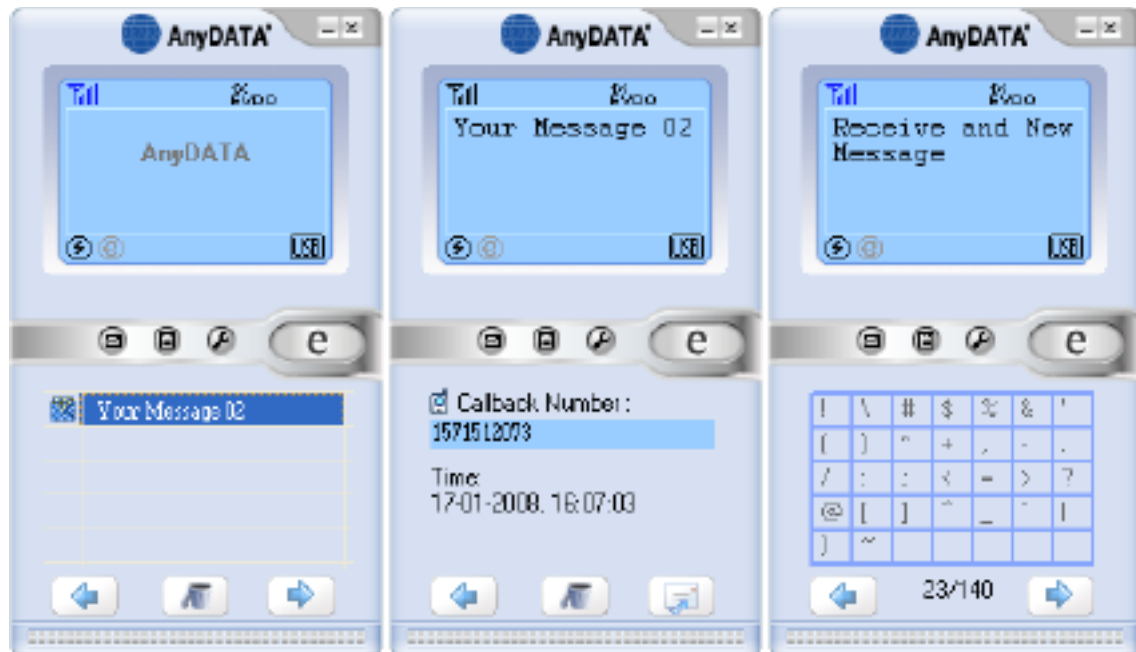



button to delete this message.

5) Select the message then press



button to view the whole contents in the display.




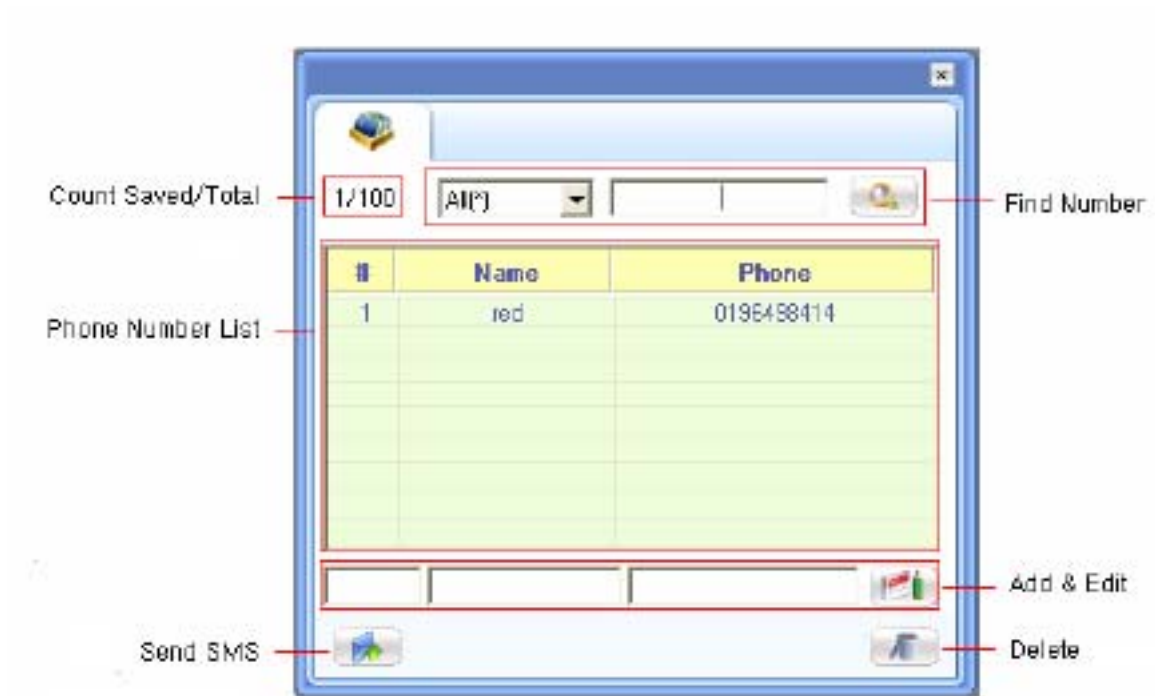
By pressing  button, the selected message will be ready to send to a new number.

	Message read.
	Unread message.
	Sent message.

Note: Description of icons.

4.2.8 Phonebook

This is a feature to store phone numbers that uses often into RUIM and to make calls accordingly. By pressing Phonebook  button, following window will appear.



[1/100] Maximum number of Phone numbers can be stored and currently saved phone numbers.




 Start searching.


All: Find and display any characters that matches from the Phone Number into a Phone Number List

Index: Finds a phone number based on the index.

Name: Finds all names that contain any one of the letter to be searched.

Phone: Finds all numbers that contains any one of the number to be searched.

 Sends SMS message to the selected phone number.

 Deletes selected number.



Saves Phone Number into the recorded Index number.
If the same Index number already exists then requires editing of the contents.

5. Troubleshooting

Q: I cannot connect to the Internet?

A: Please check <environment setting> of program for correct ID, password and Service number. For proper ID, password and Service number, please contact service provider for more information.

Q: The Internet connection speed is too slow.

A: Please check whether the modem is set at 1X mode. If USB modem is set at 1X mode, then the

Internet is not connected as EVDO mode. EVDO icon must be appeared in the display to assure that it has been connected as an EVDO mode.

Q: The Internet connection is poor and frequently it gets disconnected.

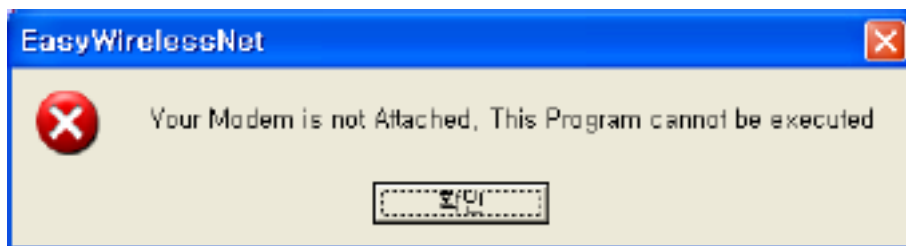
A: The CDMA frequency is at unstable state. Try to move to a different place then use it again. Also, if

you touch or block the USB modem with hand/body contact, the modem connection speed degrades. Please be careful not to touch the modem with your hand or any part of the body.

Q: All of the display on the program's screen shows as prohibited icons.

A: Please check whether the port is properly set for communicating between computer and the modem in the <environment setting> category.

Q: After the installation of the program, the program does not run and displays following message



A: This means that USB modem and the compute are not connected properly. Please double check whether USB modem is connected properly to the computer.

Q: During the running of the program, following message appears and the program halts.



A: The actual connection of USB modem and computer has been disconnected. Please check whether the cable is dismounted, cable is disconnected or USB modem power has been turned off. Then try to reconnect the modem.

Q: Cannot make a call

A: If you see a [EVDO] icon in the display, call cannot be made. Please change mode other than [EVDO] mode then try to make a call. There are three different icons in that field, [1X], [1X/EVDO] and [EVDO].

Q: How many people can I send SMS messages at once?

A: It is possible to send maximum of 5 people at once.

Q: The program has ended but the USB modem power is turned off.

A: The power of USB modem is not controlled by the program. The point USB modem turns on

automatically is when USB cable is connected to the PC/Notebook. In order to turn off the modem, press ON/OFF button for at least 5 seconds.

Q: Easy Wireless Net program displays <DB xxxx Error> message and terminates.

A: Easy Wireless Net program uses mdb format type of database file. This type of format is preinstalled when using Windows XP, Windows 2000 OS in a computer. However, this type of database file has been removed by some other program.

Need to update following two (2) files from Microsoft site:

1. MDAC : < <http://www.microsoft.com/downloads/details.aspx?FamilyID=6c050fe3-c795-4b7d-b037-185d0506396c&DisplayLang=en>>

2. Jet Engine 4.0:

<<http://www.microsoft.com/downloads/details.aspx?FamilyID=2deddec4-350e-4cd0-a12a-d7f70a153156&DisplayLang=en>>

Q: After click internet button, following message appears and do not connect internet.
























A: There may be something wrong with your audio device. Please check whether your audio device driver has been installed.

6. Quick Guide

6.1 Display Indicators

The display may show the following icons to indicate the USB modem's status or function.

Display	Function
	RSSI Signal Strength Indicator
	Calling Possible
	Calling not Possible
	New message arrived.
	Voice Mail arrived.
	Voice Mail and New Message arrived.
	Supports Hybrid mode
	Only 1X mode available
	Only EVDO mode available
	USB connected
	Roaming
	Connected to the Modem
	Either the cable is disconnected to the modem or improper port connection.
	Internet connected
	Internet disconnected
	connected to the Internet button.
	Disconnecting to the Internet
	Setup Easy Wireless Net
	SMS menu
	Phonebook Menu
	Sending message.