AnyDATA.NET USB Modem

(User Manual)

SW-ADU-300H-UG-V1.4E(Telefonica O2)

March 19. 2007

AnyDATA®

AnyDATA CDMA Module Series Reference Design Specification
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Contact Address

AnyData.Net Inc.(Korea)
DaeGo Bldg, 8 th., 1591-10
Kwanyang-dong, Dongan_gu,
Anyang City, Kyunggi-do Korea.
http://www.anydata.co.kr
e-mail: infodata@anydata.net
Rep:+82-31-380-7100
Fax:+82-31-476-6021

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1. About AnyDATA.NET USB MODEM

1.1 Product Description and Feature

In today's fast-moving economy, the need to remain connected is essential. The world most compact AnyDATA EVDO USB modem, ADU-300H, offers the appropriate solution to home and mobile connectivity using antenna diversity that enables better connectivity and data speed in poor signal environment and internal antenna technology. It provides extensive and reliable wireless data communication at speed up to 2.4Mbps downlink and 153kbps uplink, The AnyDATA EVDO USB modem connects to USB port and application software effortlessly integrates into a Windows based PC as well as notebook computer.

- EVDO technology based on Qualcomm MSM6500 chipset
- Support CDMA EVDO
- High speed wireless data up to 2.4Mbps downlink and 153kpbs uplink
- Internal antenna supporting diversity
- 4 multi-color LEDs
- Support USB 2.0 interface with PC
- Battery included. 320mAh

1.2 Technical Specification

Technical Standard	- CDMA EVDO - TCP/IP and PPP
RF Technology	- Antenna Diversity - Internal Antenna
Electrical	- Sensitivity: Lower than –104dBm - Transmit Power: 320mW(25dBm) max. - 4 Multi-color LED indicators
Input Power	- External Power : DC 4,5V to 5V - Battery: 4.2V Li-Ion, 320mAh
Interface	- Mini-B type USB - DC Power Jack - External Antenna Port
Current Consumption	- Traffic Mode: 800mA max. at 5V - Idle Mode: 110mA - Sleep Mode: 9mA
Antenna	- Two WIFA antenna
Data Speed	- Download: 2.4Mbps max. - Upload: 153kbps
System Requirement	- Windows 2000/XP/Vista - USB Port - Above 64MB RAM
Frequency	-Rx:461.310MHz~465.73MHz -Tx:451.310MHz~455.73MHz
Size	42 X 88 X 15mm with case
Weight	About 48g
Software Spec	- CDMA2000 High rate packet data air interface - IS-707-A - IS-837, IS-856, IS-866, IS-890-
Environmental	- Operating Temperature: -20C ~ 50C

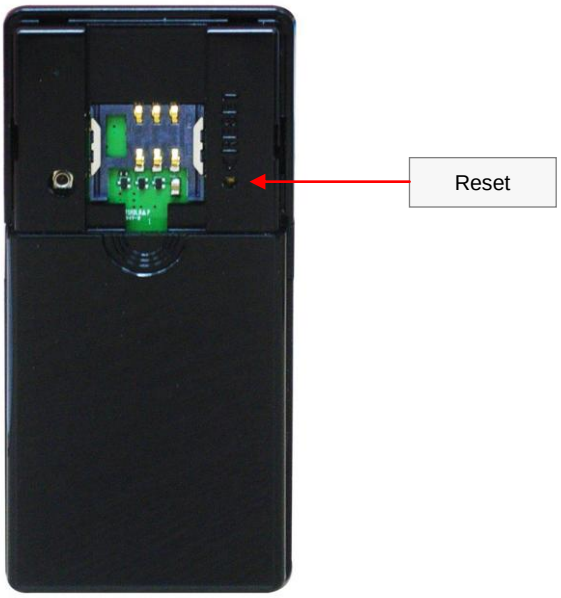
2. Getting Started

In order to use AnyDATA.NET USB MODEM following must be satisfied:

1. Easy Wireless Net Software and AnyDATA.NET USB MODEM Driver has been installed on the computer.
2. Must have a proper user name and password from the local CDMA operator.
3. AnyDATA.NET USB MODEM must have been certified from the operator.

2.1 USB Modem

External Antenna Port
Internal Antenna Inside
Power Key
AnyDATA
LED
BUSY
PWR
IDLE
SMS
HIGH SPEED
CDMA MODEM
R-UIM CARD
+5V DC Power Jack
Mini USB Port


Reset

2.2 Components

5V DC Power Adaptor

Standard USB Cable

2.3 LED indicator

POWER

Mode	Descriptions
BLUE	Battery power is used
BLUE BLINK	Low battery warning
RED	External DC power is used and fully charged
VIOLET	External DC power is used and under charging
OFF	Power off

IDLE

Mode	Descriptions
BLUE	Working in EVDO network
BLUE BLINK	Searching EVDO network
OFF	Service is not available

BUSY

Mode	Descriptions
BLUE	- EVDO : Data throughput exceed to 1,200Kbps
CYAN	- EVDO : Data throughput between 600Kbps to 1,200Kbps
GREEN	- EVDO : Data throughput under 600Kbps
GREEN BLINK	- EVDO : Outgoing call initiated but still attempt
OFF	- EVDO : Not in connected state

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

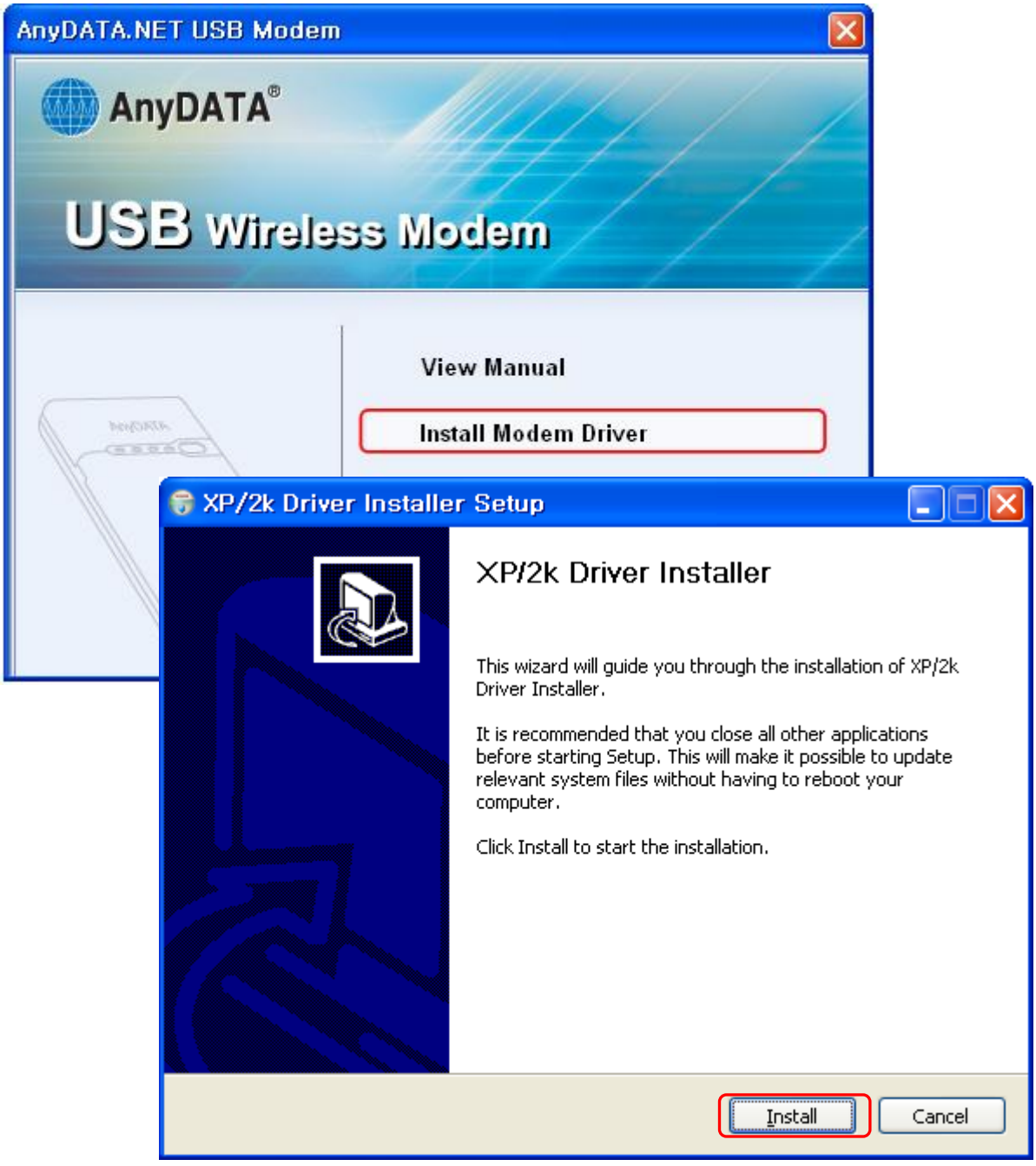
Windows XP Home or Professional (with Service Pack 2)
Windows 2000 (with Service Pack 4 for optimal performances)
Windows Vista

< Recommended parameters >
Windows Update : Keep your computer up to date

3.3 USB Driver Installation and Uninstall (Windows XP/2000)

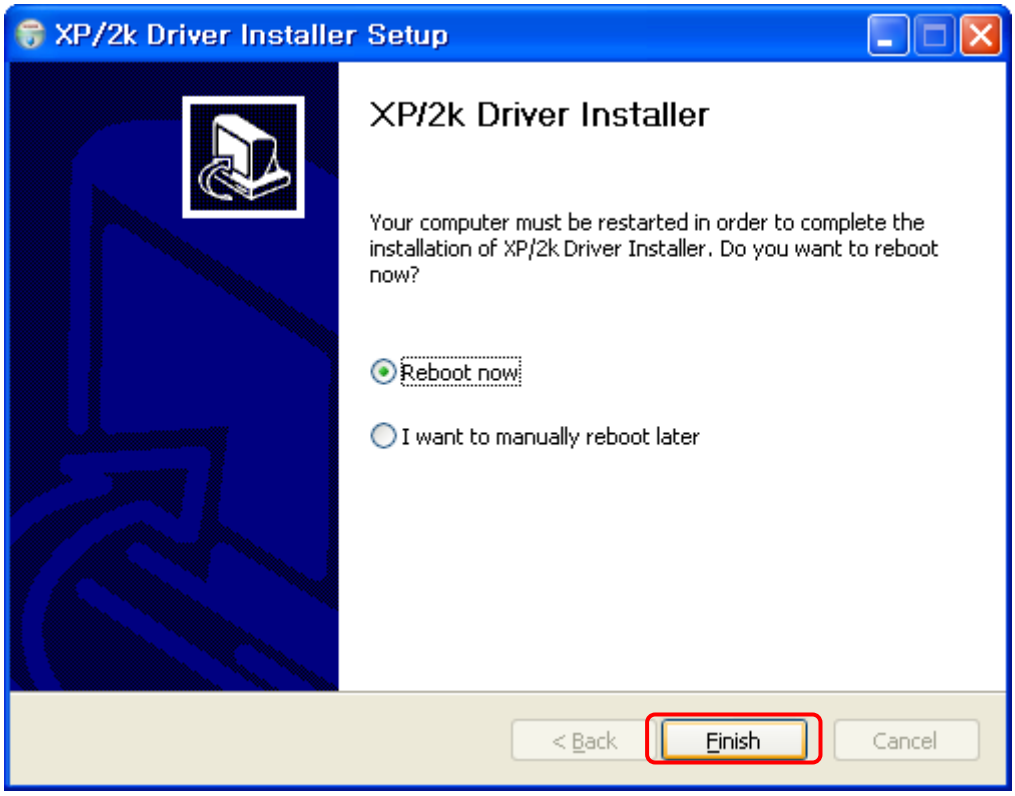
3.3.1 USB Driver Installation (Automatic)

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.

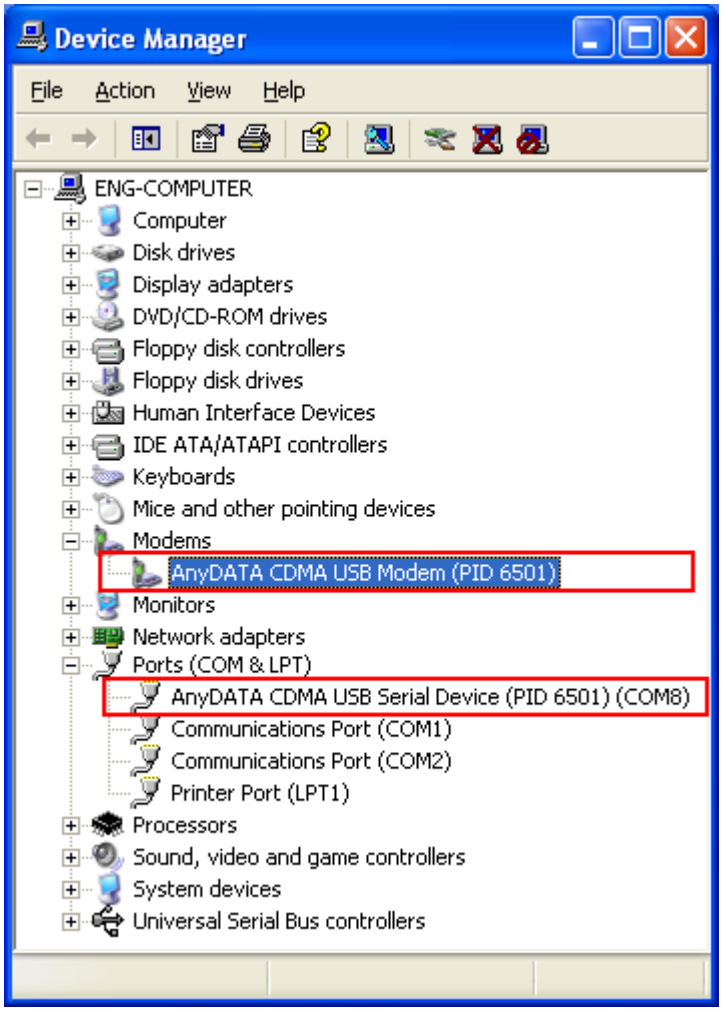
To restart the computer later, select “I want to manually reboot later”.



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 □ Devise 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.



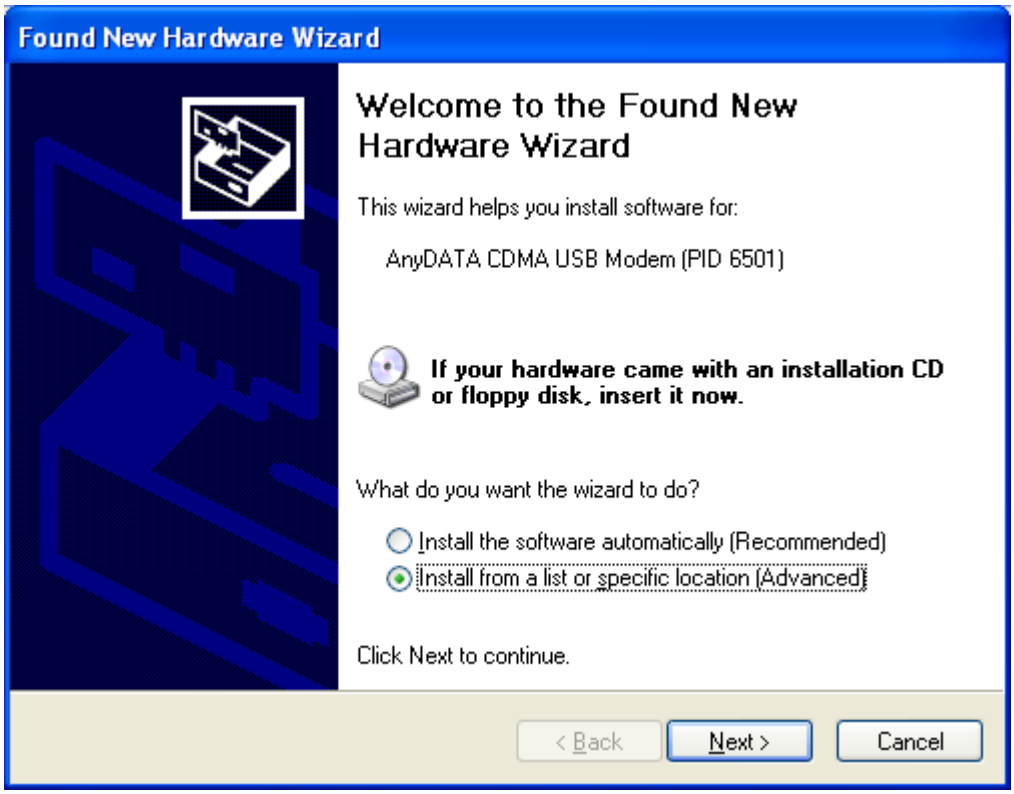
3.3.2 USB Driver Installation (Manual)

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 "Install from a list or specific location (Advanced)".

3. Press Next > button to proceed.

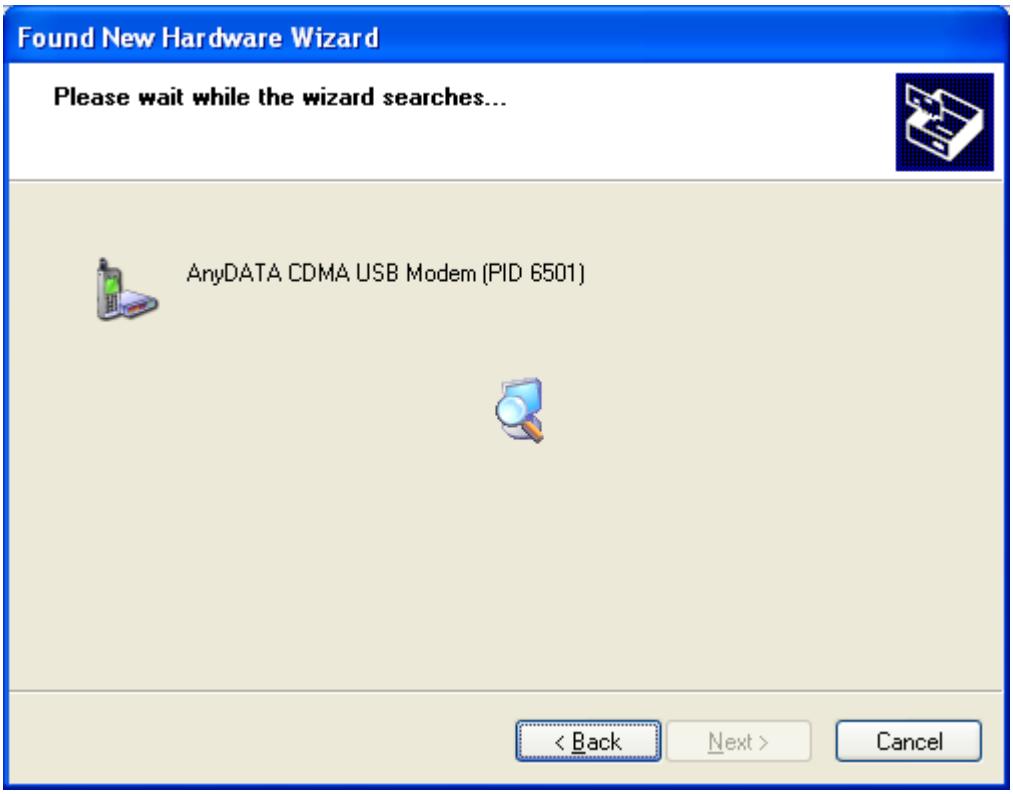


4. A window that displays a proper path of Driver will appear.

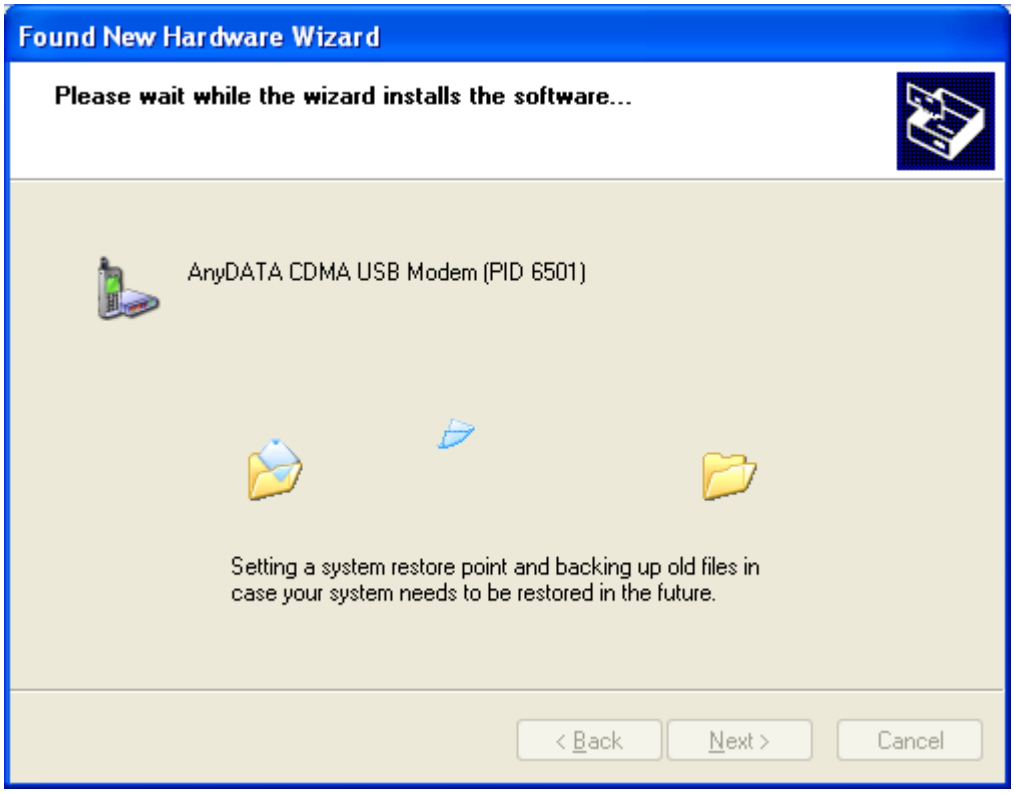
5. Select from the CD's path "CD Rom Driver: \Driver\" folder for appropriate OS.

6. Press Next > button to proceed.

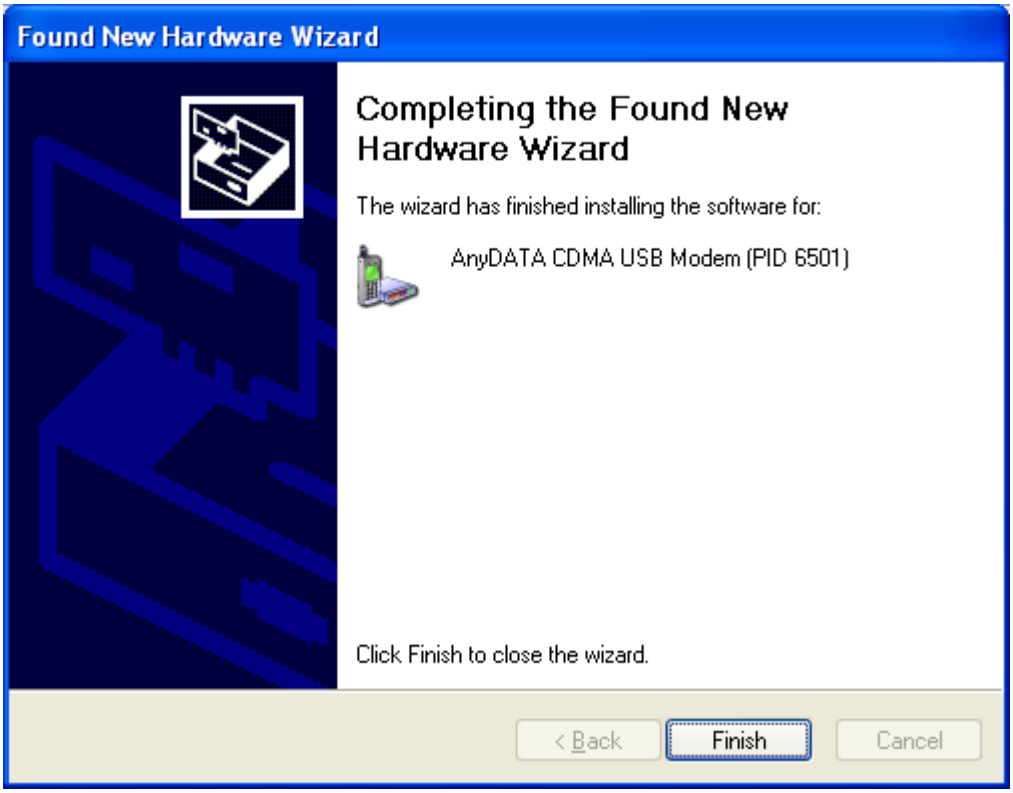
7. A window that searches “AnyDATA CDMA USB Modem” will appear.



8. Process of installing “AnyDATA CDMA USB Modem”.

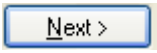


9. If the installation of “AnyDATA CDMA USB Modem” has been completed, following window will appear.



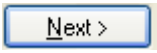
10. Next, it will install “AnyDATA CDMA USB Serial Device”.

11. Select “Install from a list or specific location (Advanced)”.

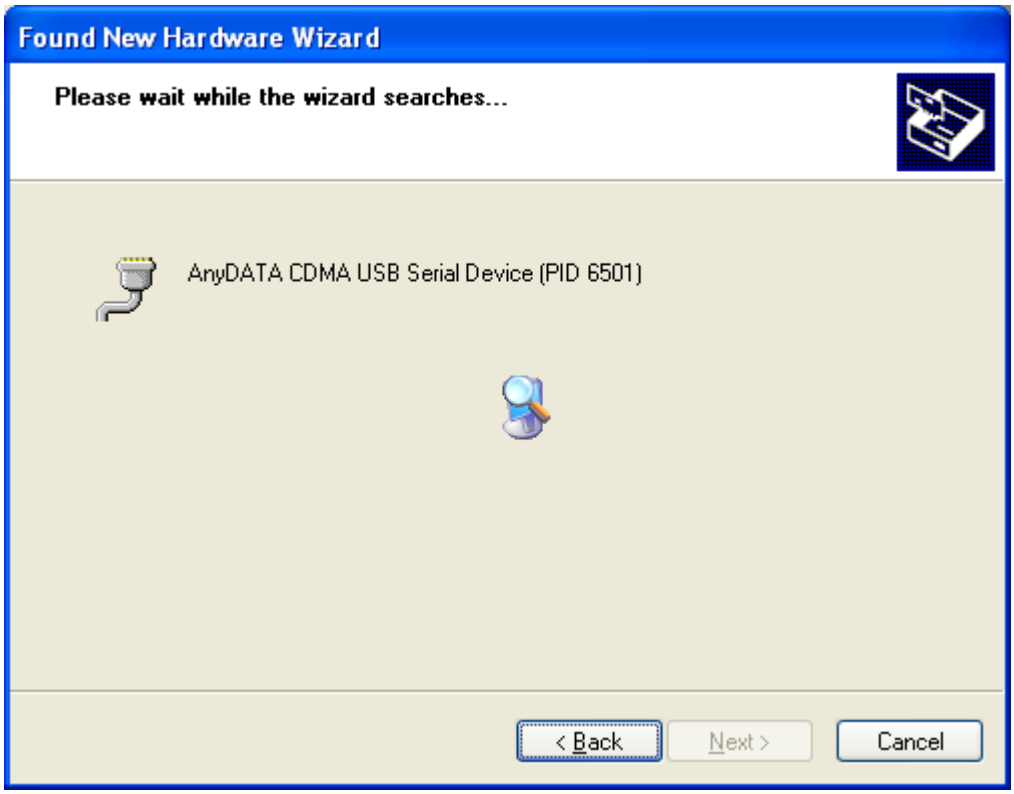
12. Press  button to proceed.

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

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

15. Press  button to move to next step.

16. Window that searches “AnyDATA CDMA USB Serial Device” will appear.



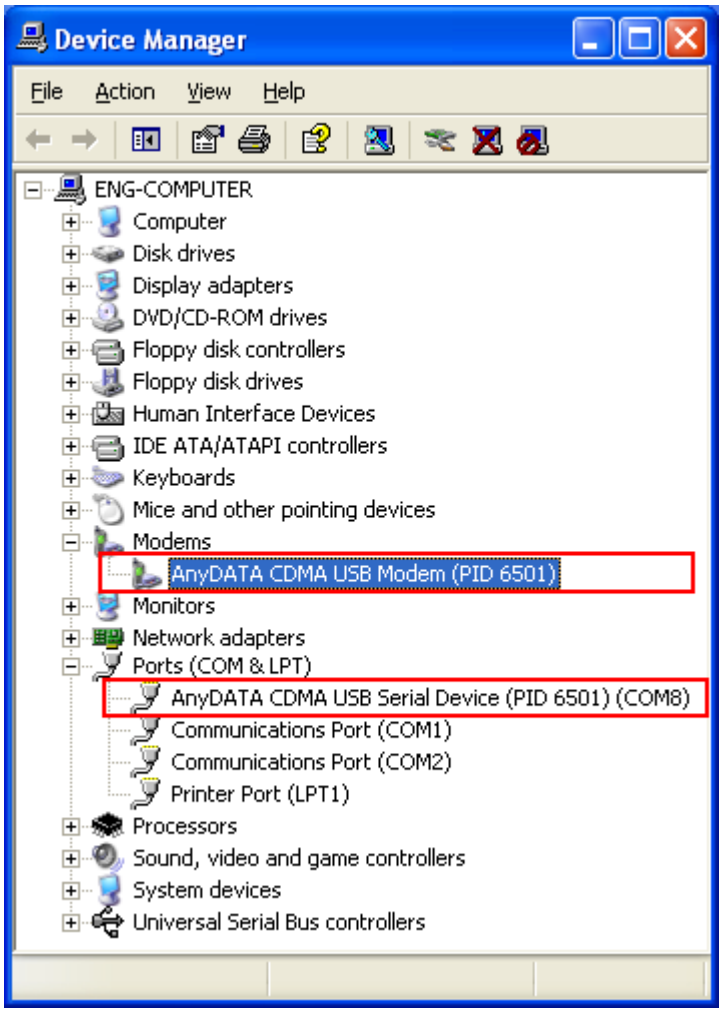
17. If the installation has done properly, this window will appear.

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"

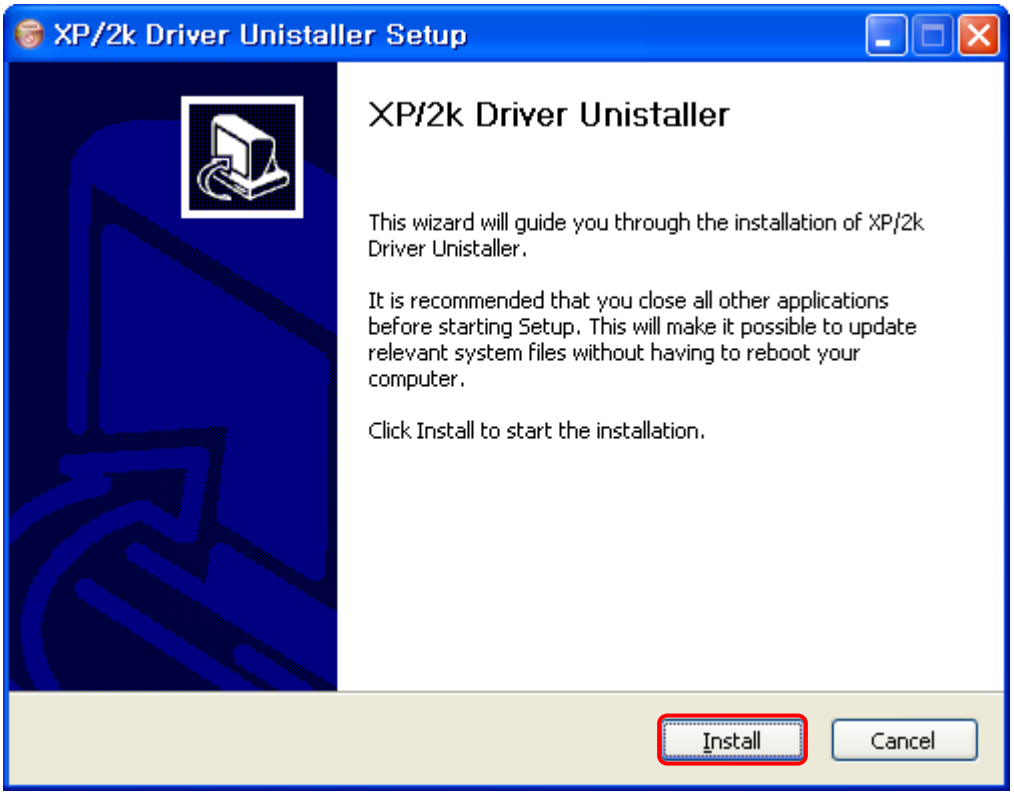
[Start □ Control Panel □ System □ Hardware Tab □ Devise Manager]

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.



3.3.3 USB Driver Uninstall

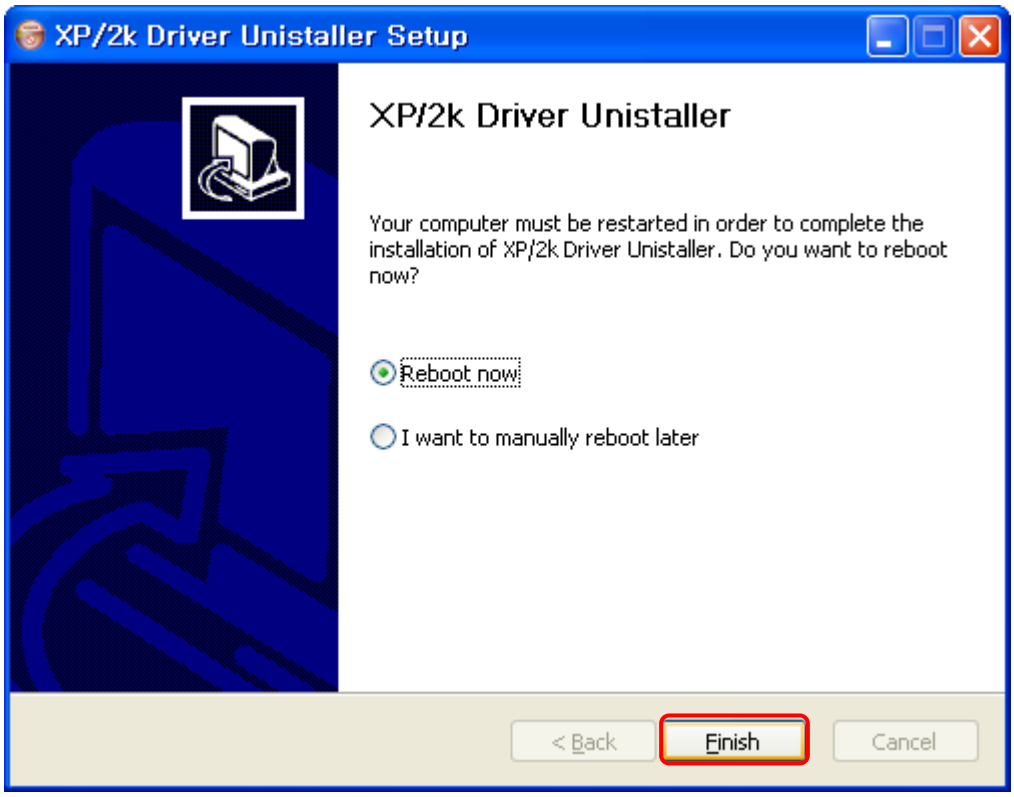
1. Disconnect the modem from USB port before uninstalling the driver.
2. By clicking on Uninstall Driver under the driver folder in CD, this will start as shown below.



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 Vista)

□ The same will apply to Windows Vista 64bit.

3.4.1 USB Driver Installation (Automatic)

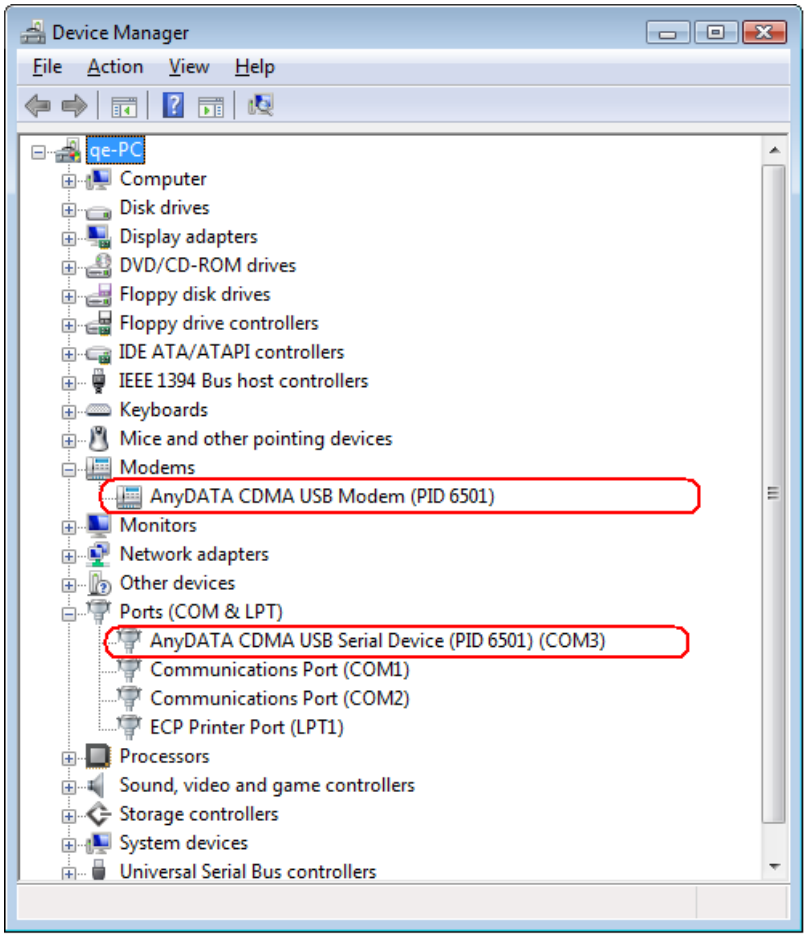
1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click ”Install Modem Driver” on the menu.

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 and Maintenance □ Devise 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.

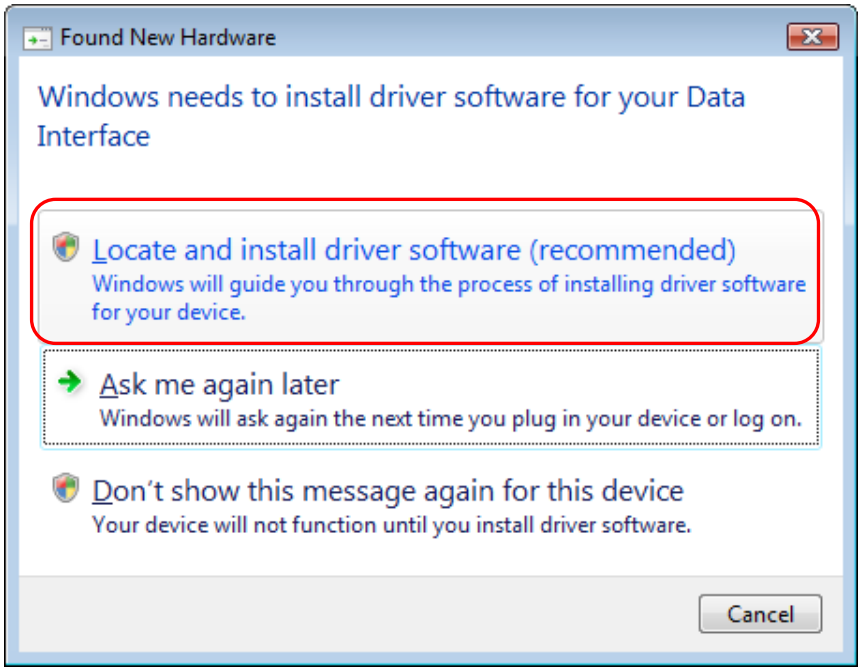


3.4.2 USB Driver Installation (Manual)

1. Connect the USB Modem to the computer.

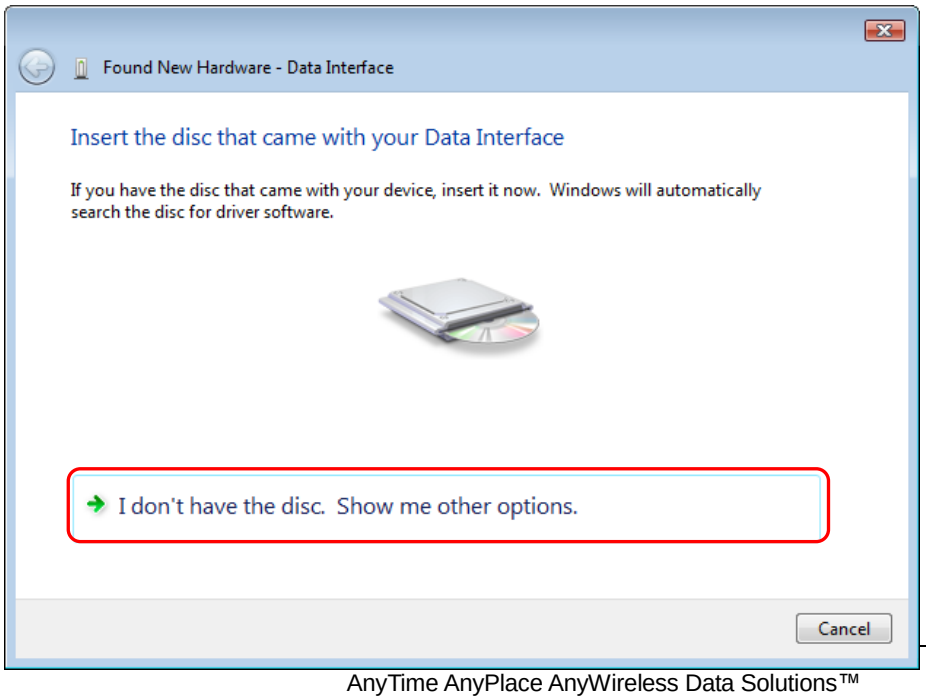
 The manual driver installation shall be required twice.

2. Click “Locate and install driver software (recommended)” when shown in below.

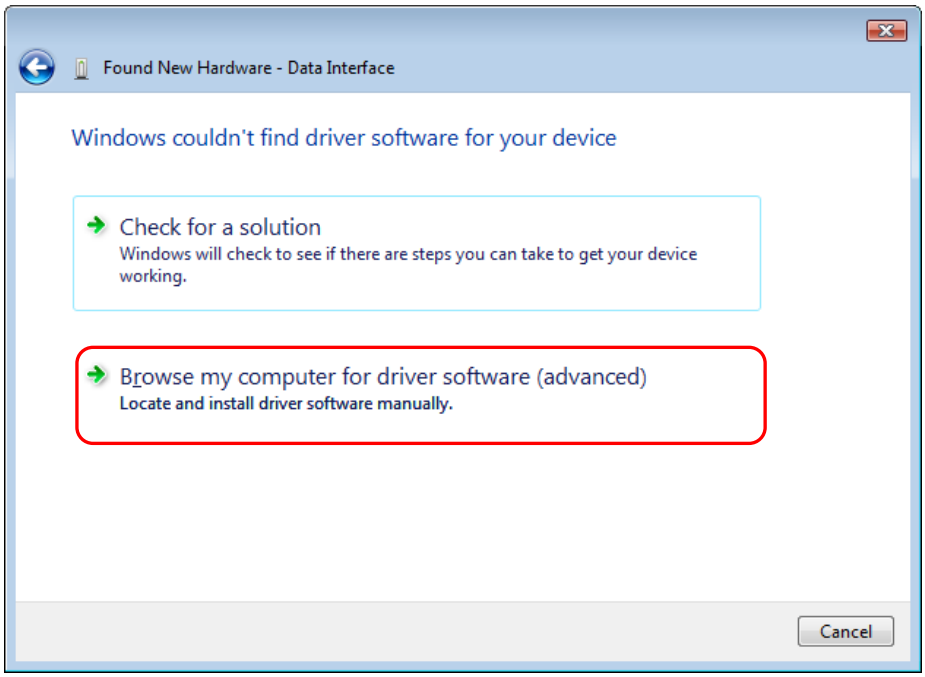


3. Click “Continue” when “User Account Control” is shown.

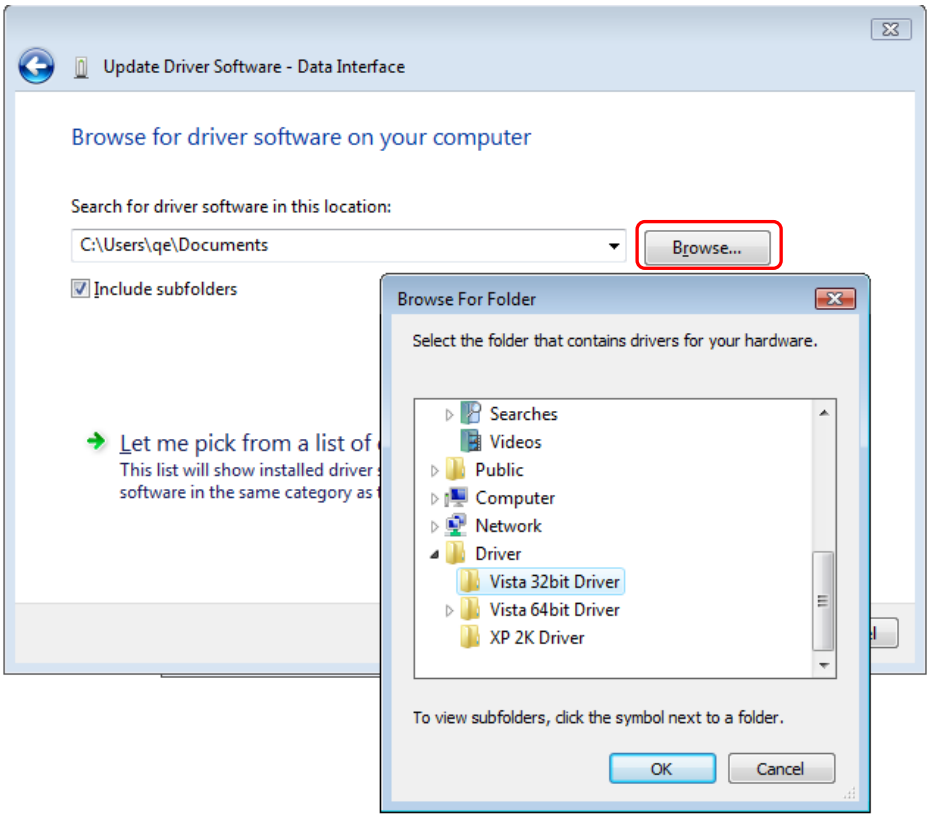
4. Click “I don’t have the disc. Show me other options.” as shown below.



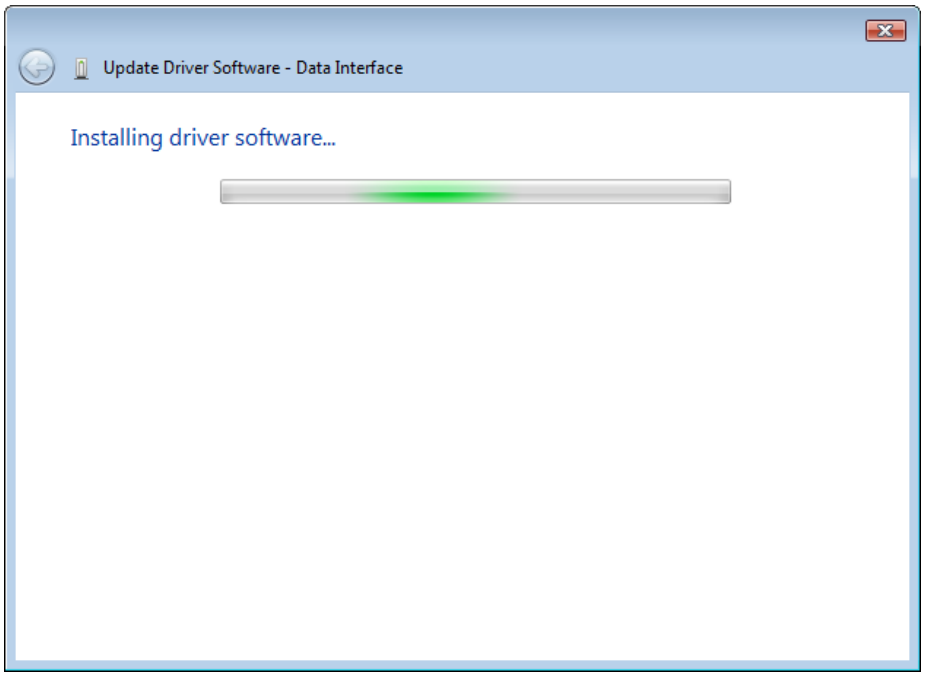
5 Click “Brower my computer for driver software (advanced)”.



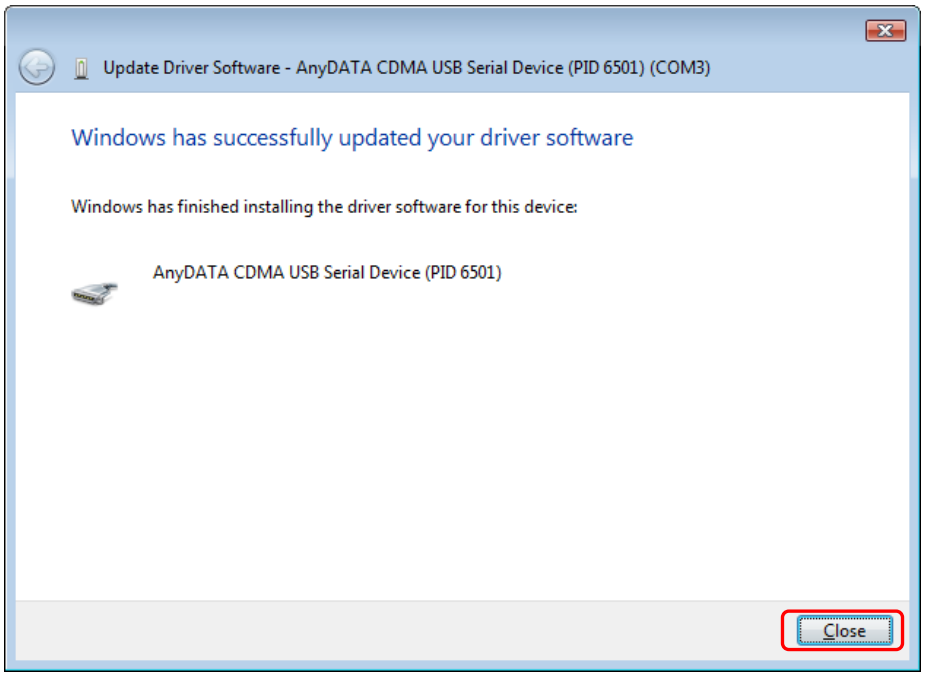
6. Click “Browse” and click “Next” as shown below.



7. “Installing driver software” will be shown as below.

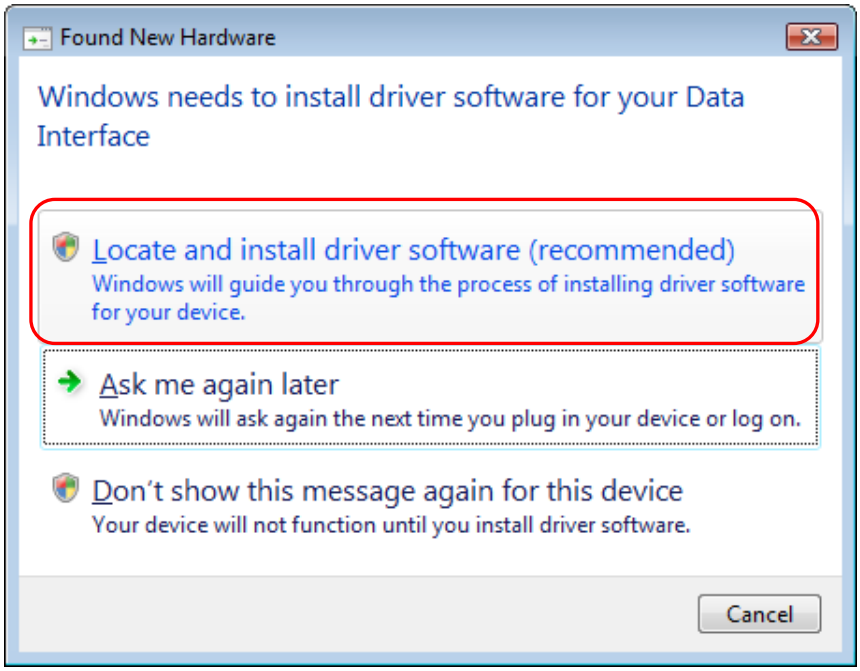


8. Click “close” if driver will be installed successfully as shown below.



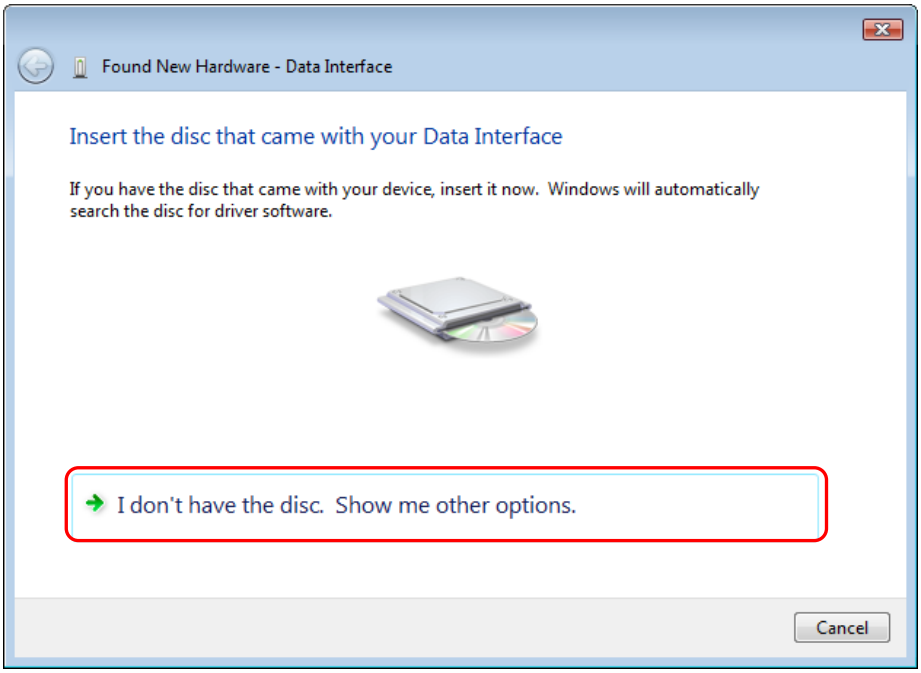
□ After the Windows shown above, the driver installation is required one more time.

9. Click “Locate and install driver software (recommended)” when shown below.

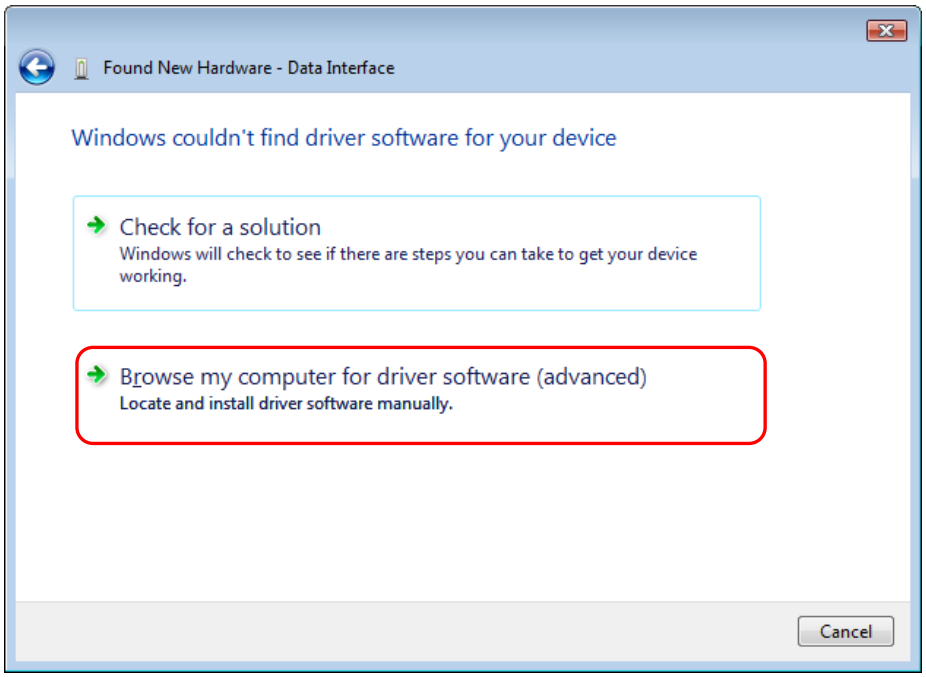


10. Click “Continue” when “User Account Control” is shown.

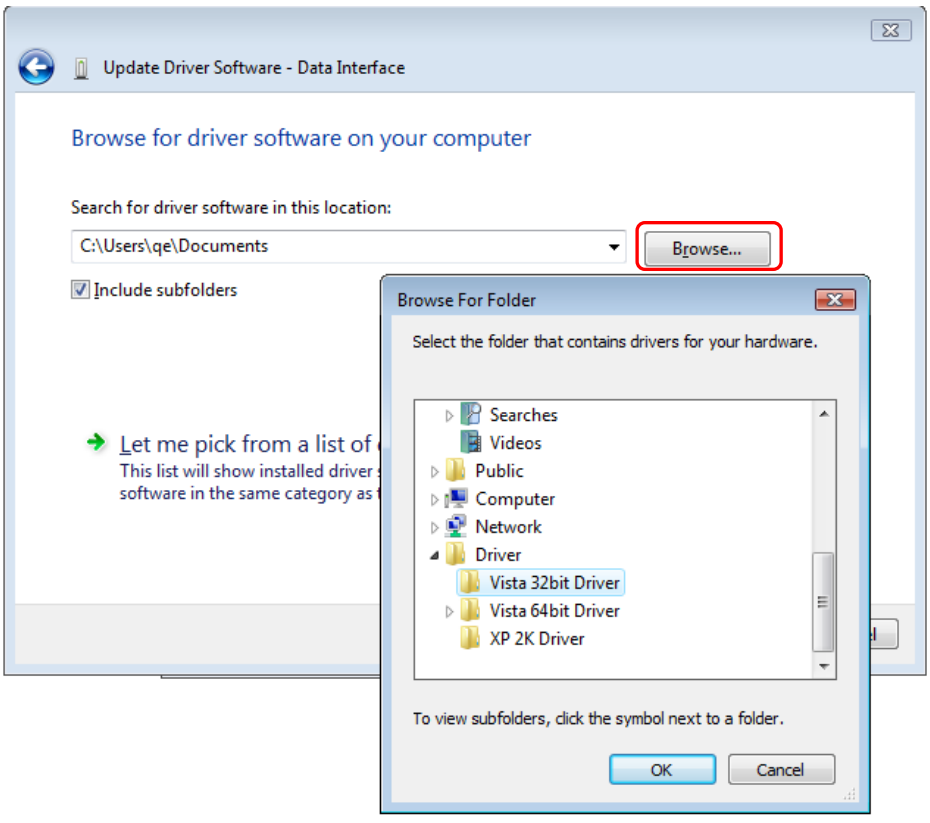
11. Click “I don’t have the disc. Show me other options.”



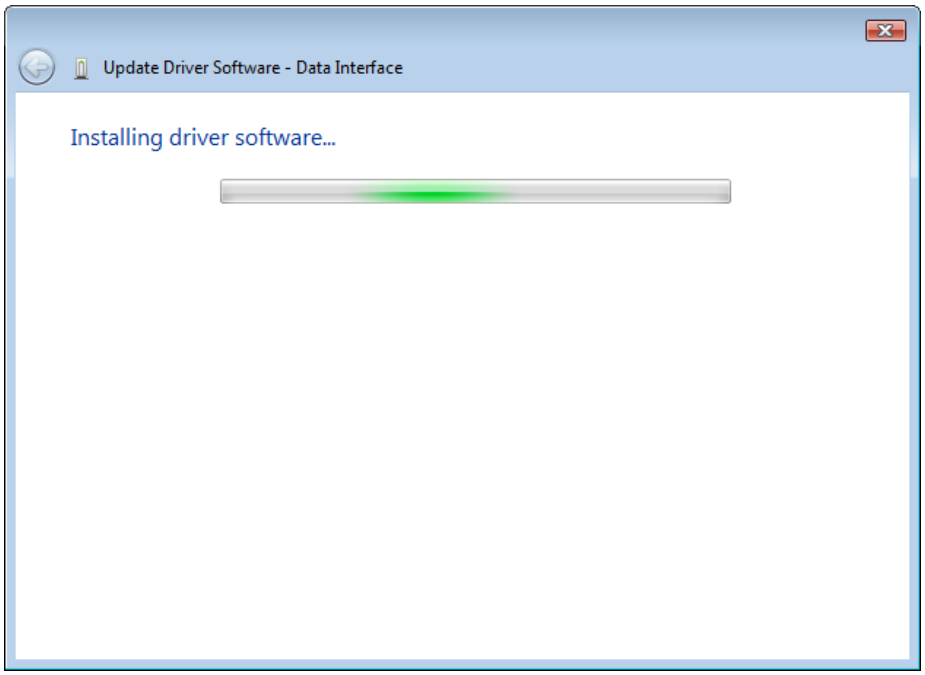
12 Click “Brower my computer for driver software (advanced)”.



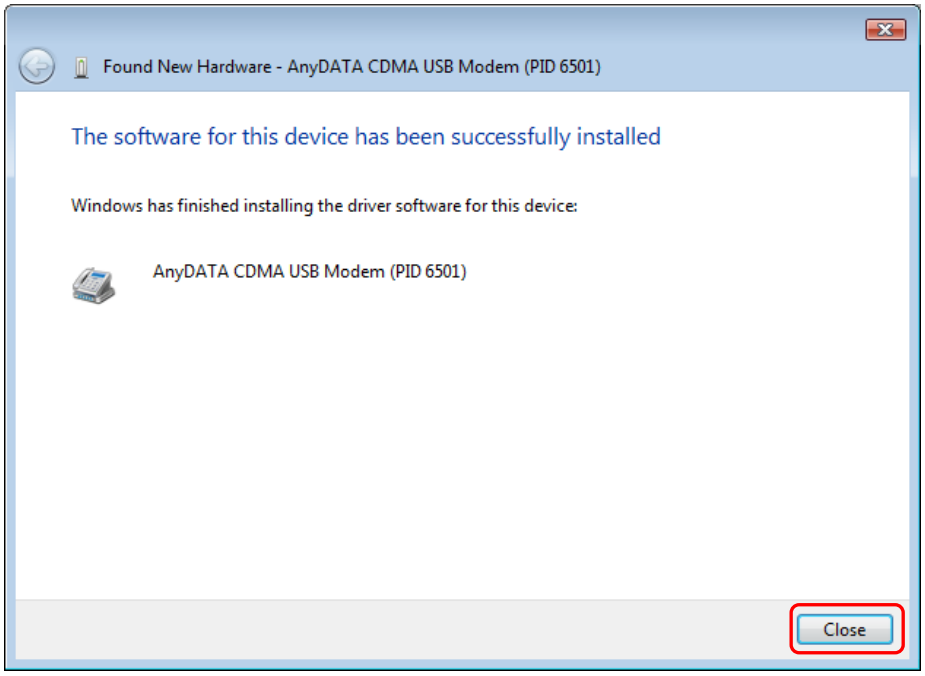
13. Click “Browse” and click “Next” as shown below.



14. “Installing driver software” will be shown as below.



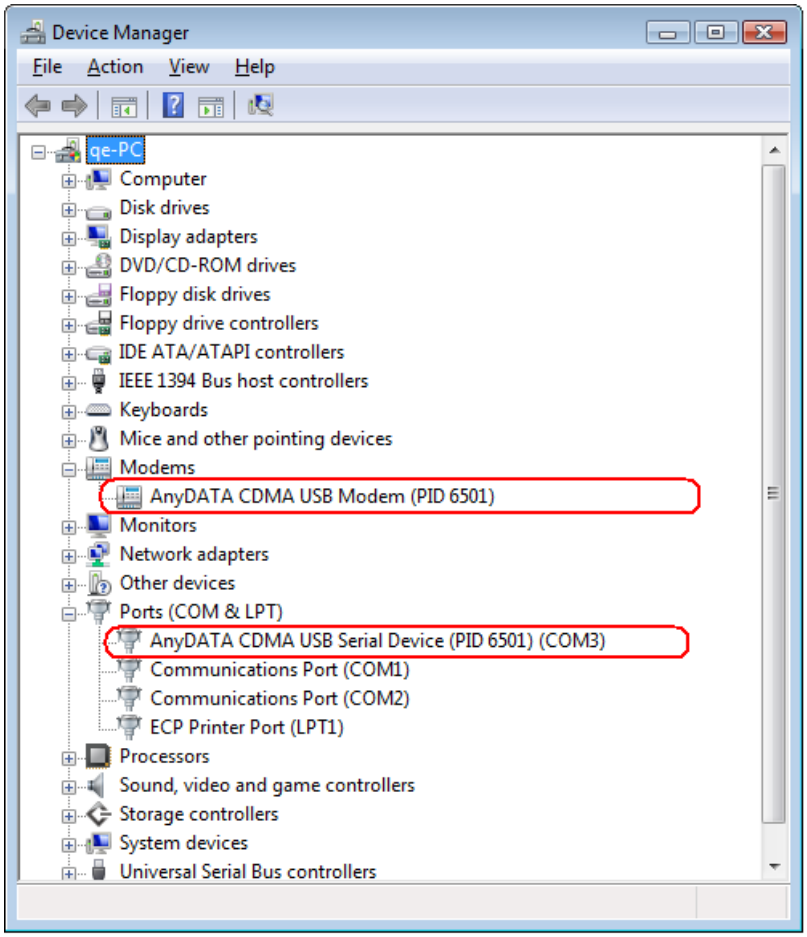
15. Click “close” when the driver will be installed successfully as shown below.



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 □ Devise Manager]

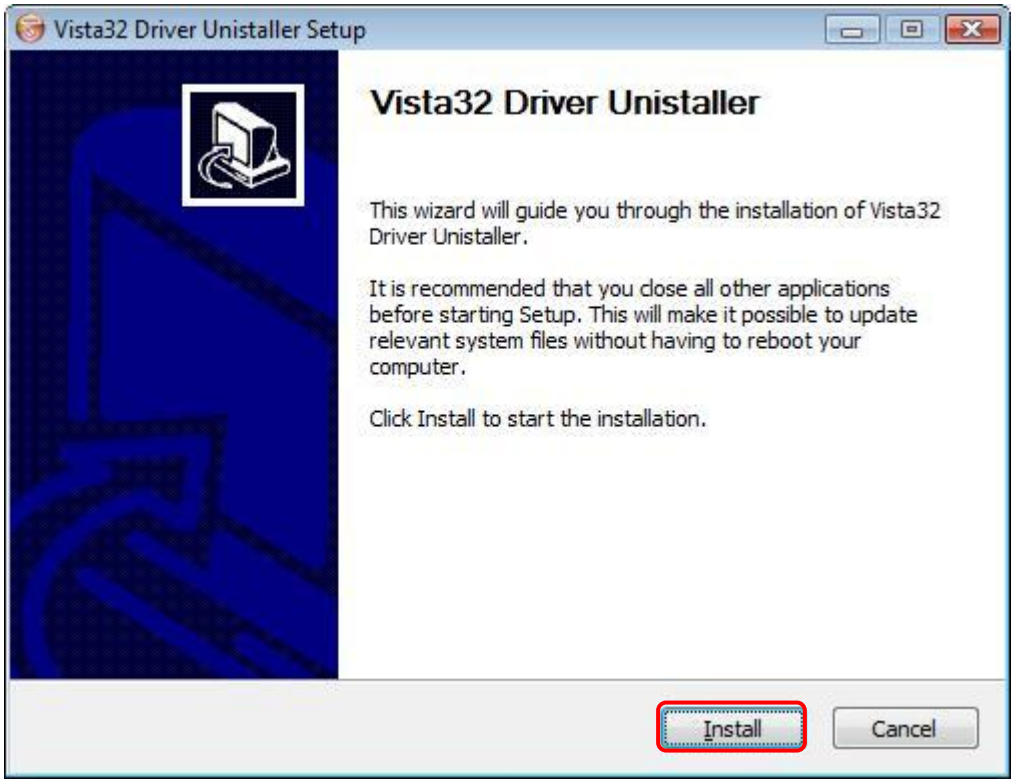
As shown in below with red boxed that shows "AnyDATA CDMA USB Modem" and "AnyDATA CDMA USB Serial Device", the driver has been successfully installed.



3.4.3 USB Driver Uninstall

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

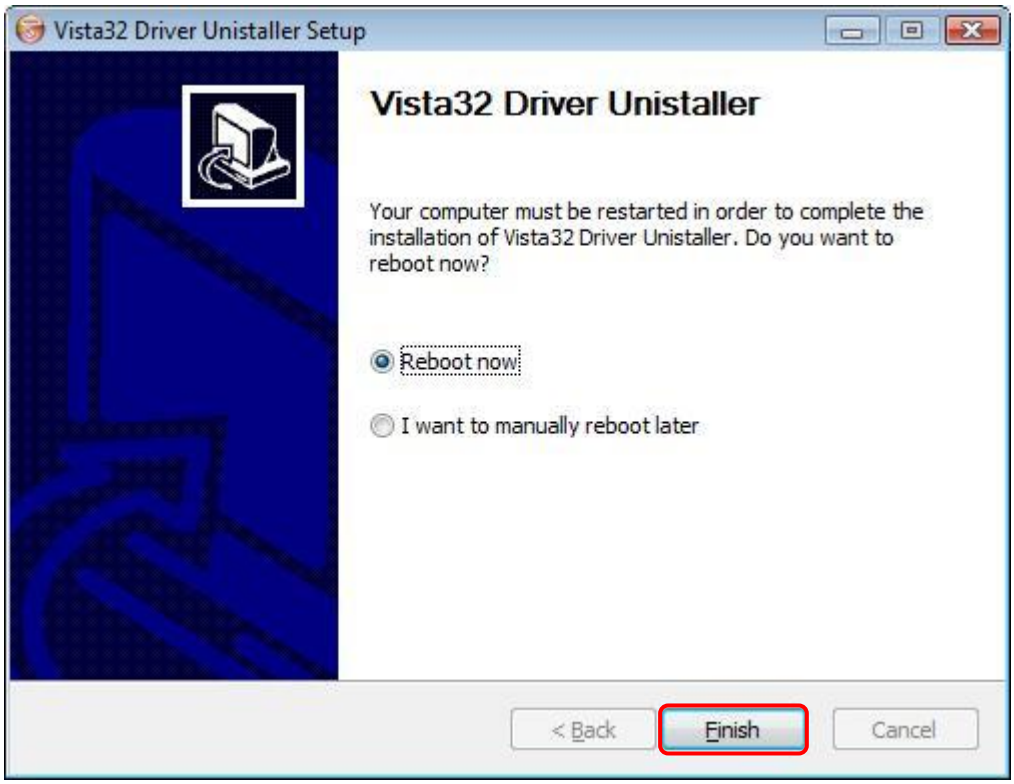
2. By clicking on Uninstall Driver under the driver folder in CD, this will start as shown below.



3. Select “Install” to uninstall the driver.

   To stop removing the driver, select “Cancel”.

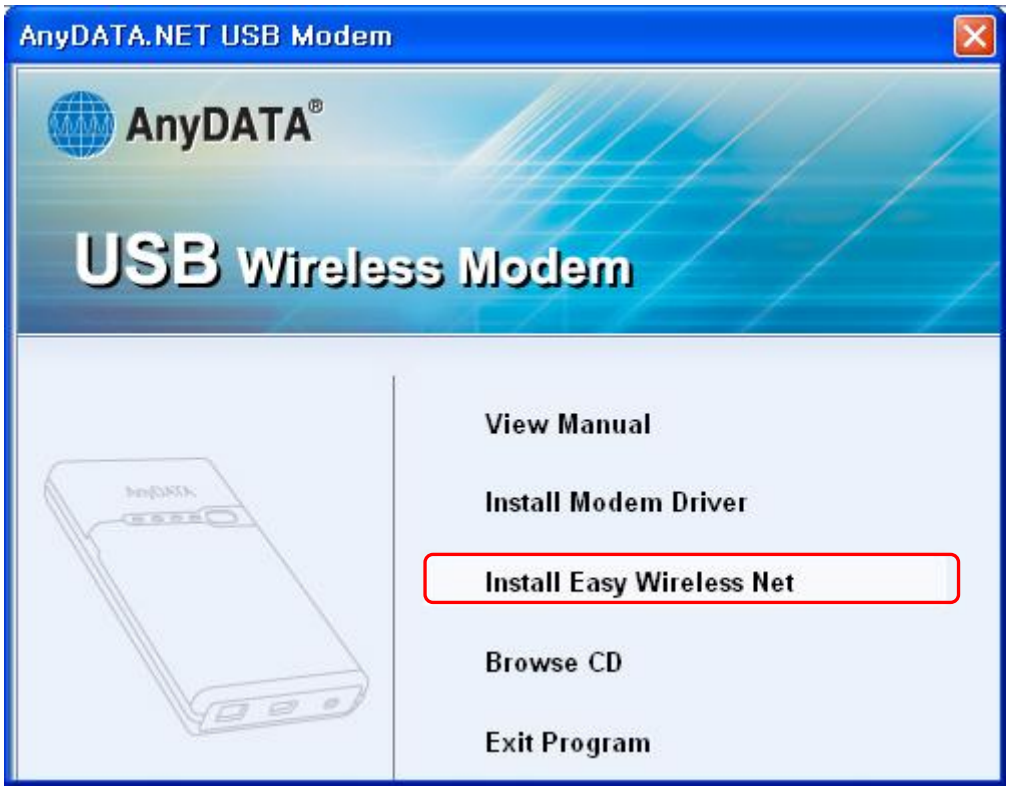
4. As shown below, click “Finish” then the driver will be uninstalled.



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

3.5 Installing Easy Wireless Net Software

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 Easy Wireless Net” on the menu.



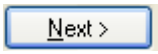
□ For Windows Vista operating system, the “User Account Control” windows will be displayed when you click on Install Easy Wireless Net shown above. Click “Continue” to move next step.

2. Select the desire language as shown below.

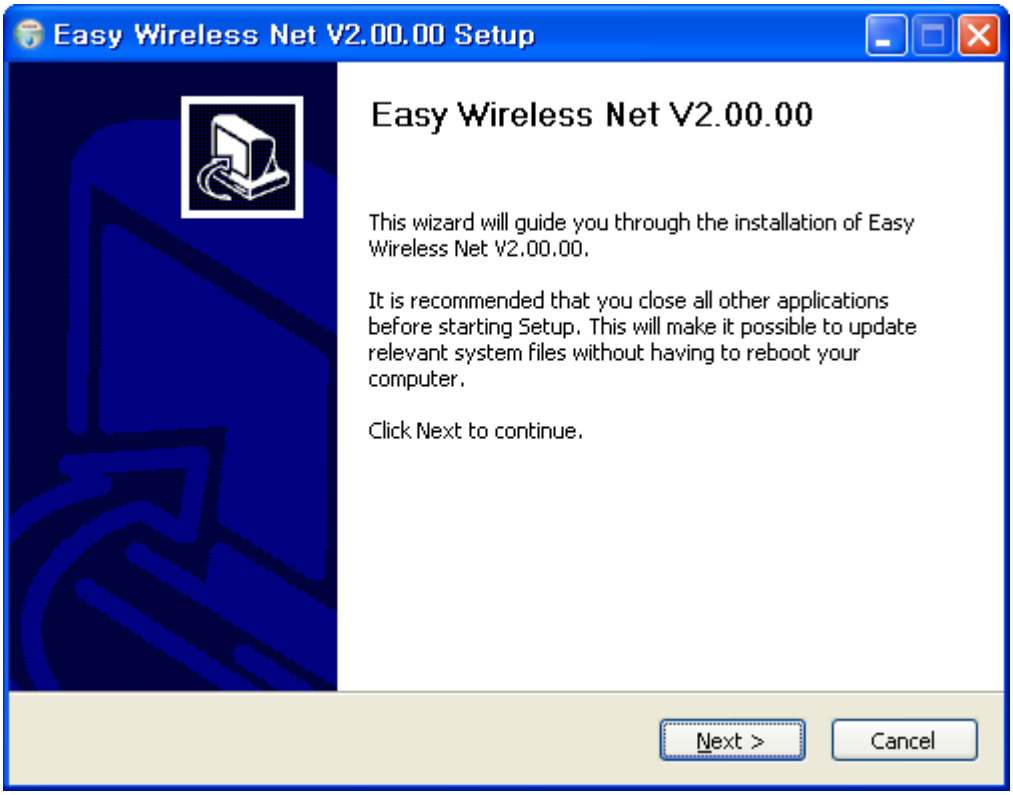
3. Press OK button to proceed. By pressing Cancel button,

the installation of Easy Wireless Net Program will stop.

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

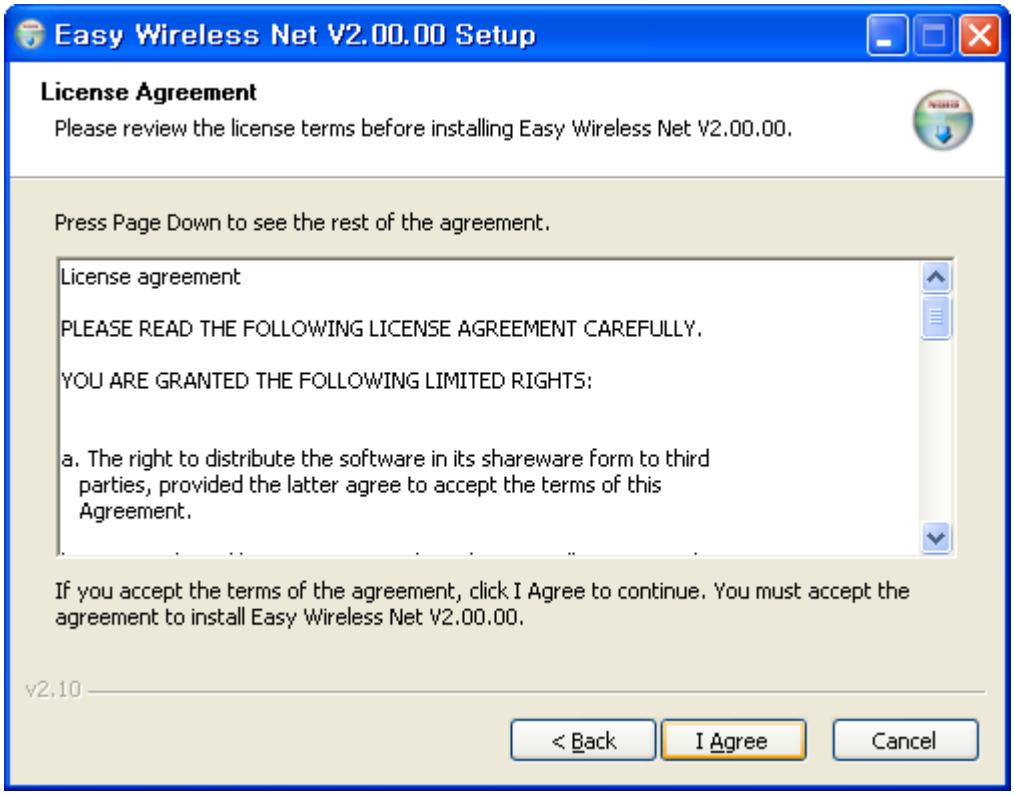
5. Press 

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.

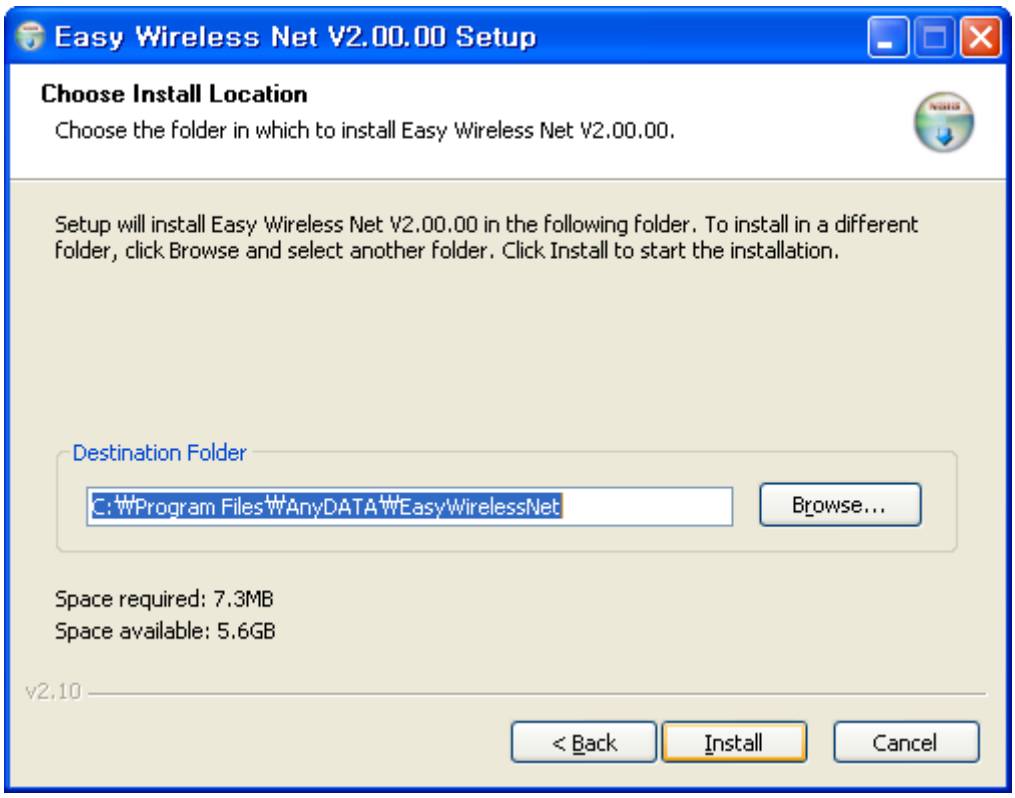


8. Next window displays asking proper path for installing the program.

   Default path is “C:\Program Files\AnyDATA\Easy Wireless Net”.

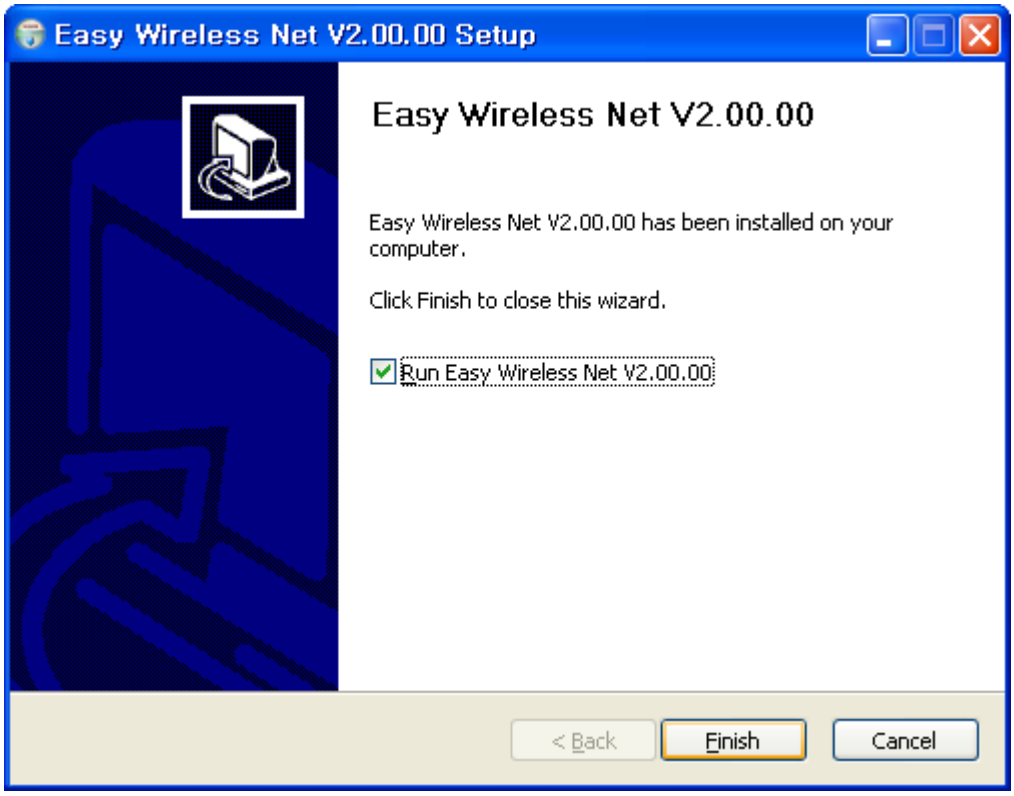
   □ For Windows Vista 64bit, the default path is “C:\Program Files (x86)\AnyDATA\Easy Wireless Net”.

9. Press Install button to install the program.



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

11. Press Finish button for ending the program installation.



This is installed 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

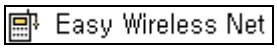
4.1 Running the program

There are 2 (two) ways to run the installed Easy Wireless Net program.

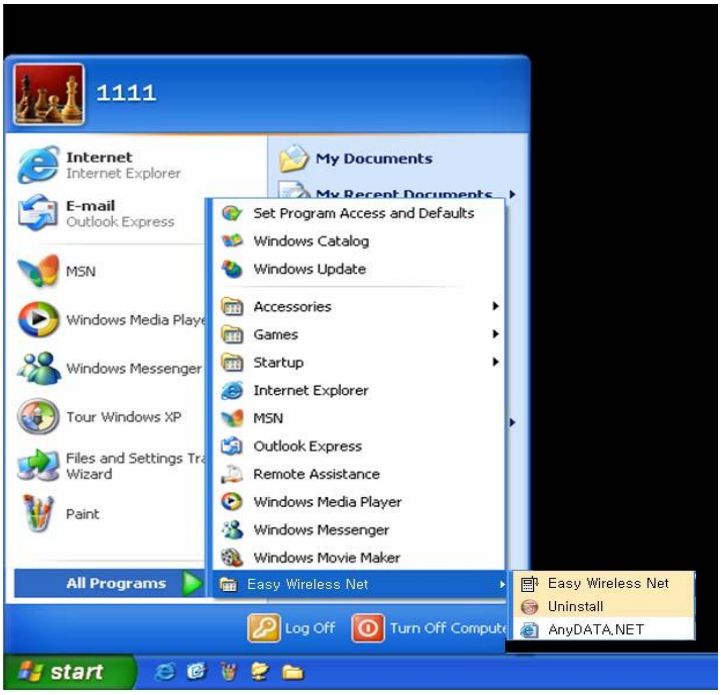
1) Double-click shortcut icon

on the desktop.

2) Navigate and run Easy Wireless Net program by clicking, start, program and Easy Wireless Net.

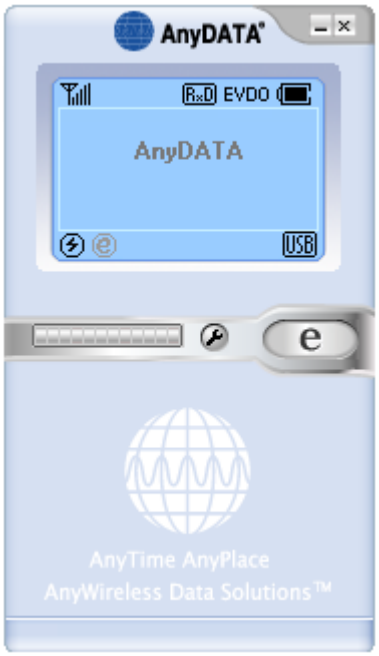
[Start □ All Program □ Easy Wireless Net □ 

]



4.2 Exiting the program

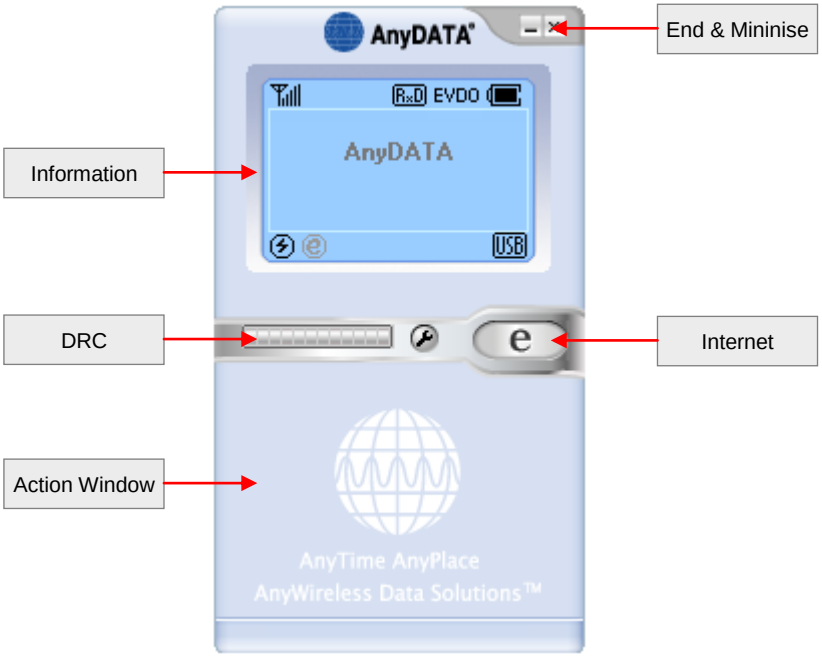
From the Easy Wireless Net program, by pressing button will quit the program.



<Note> If DUN is running, the program will end after the completion of these commands.

4.3 Screen Display of Easy Wireless Net

4.3.1 Executed Screen

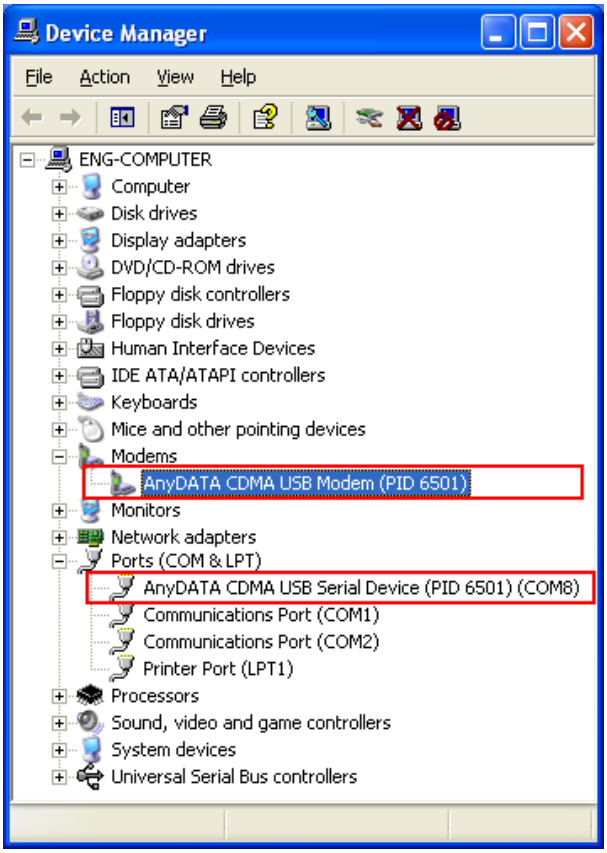


4.3.2 Description of each icon

Display	Function
	RSSI Signal Strength Indicator
	No signal
	Rx Diversity available.
EVDO	EVDO mode available
	Battery Indicator
	Battery Fully charged
	Low Battery or Battery nil
USB	USB connected
USB	Charging USB
	External Power
	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

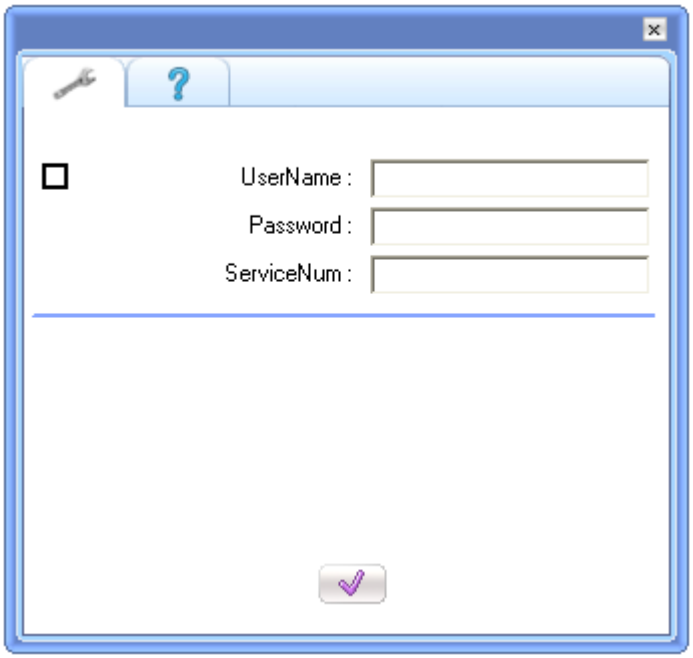
4.3.3 Setting Environment

There are two sections for setting environment. One is data from operator for connecting to the Internet, and another is to set the proper port for modem information communications.



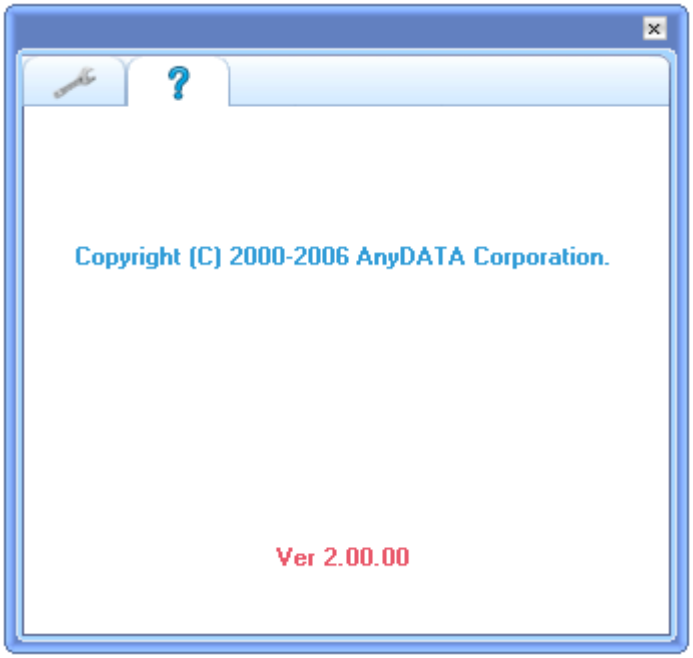
[Basic] Tab

The basic configuration for connect to the network using EV-DO 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.



[About] Tab

Display the software version for Easy Wireless Net program.



4.4 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.

4.5 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?

4.6 DRC information View

Data Rate Control Information bar indicator.

0 kbit < < 300 kbit

300 kbit < < 900 kbit

900 kbit < < 1.8 Mbit

1.8 Mbit < < 2.4 Mbit

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 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: Can I leave the external power adopter in the electric socket even after the battery is fully charged?

A: Yes, it is recommended to use the external power adaptor even if the battery is fully charged..

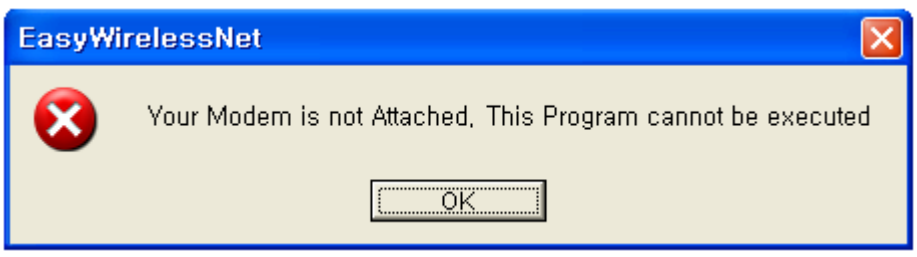
Q: No matter how long I pressed the power button, the power does not get turned off.

A: Please check whether the external power is connected or not. If external power adopter is connected then the power will not be tuned off.

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: 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 POWER key for at least 5 seconds.

Q: The USB modem did not response any thing and I tried to turn-off the modem by pressing power key but unsuccessful.

A: Please open then rear cover (RUIM compartment cover) on the back of USB modem and press RESET key then the modem will be reset.