AnyDATA.NET USB Modem (User Manual)









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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-E100A), 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 and 1Xrtt
- High speed wireless data up to 2.4Mbps downlink and 153kpbs uplink
- Receive/Send SMS during DATA operation
- Internal antenna supporting diversity
- 4 multi-color LEDs
- Support USB 2.0 interface with PC
- Battery included, 1500mAh
- Support RUIM card





1.2 Technical Specification

	- CDMA EVDO
	- CDMA 1xRTT
Technical Standard	- TCP/IP and PPP
roomioai otaridai a	- IS-637A
	- IS-707-A
	- IS-837, IS-856, IS-866, IS-890-
RF Technology	- Antenna Diversity
- Ki Technology	- Internal Antenna
	- Sensitivity : Lower than –104dBm
Electrical	- Transmit Power : 320mW(25dBm) max.
	- 4 Multi-color LED indicators
Input Power	- External Power : DC 4,5V to 5V
iliput rowei	- Battery : 4.2V Li-lon, 1500mAh
	- Mini-B type USB
Interface	- DC Power Jack
	- External Antenna Port
Command	- Traffic Mode: 800mA max. at 5V
Current	- Idle Mode : 110mA
Consumption	- Sleep Mode : 9mA
Antenna	- Two WIFA antenna
Data Speed	- Download : 2.4Mbps max.
Data Speed	- Upload : 153kbps
• .	- Windows 2000/XP
System	- USB Port
Requirement	- Above 64MB RAM
	-Rx :462.5 ~ 467.470MHz
Frequency	-Tx :452.5 ~ 457.475MHz
	400 (1)450 (14)444 (11) 21
Size	- 100mm(L)*56mm(W)*14mm(H) without battery
Size	- 100mm(L)*56mm(W)*25mm(H) with battery
	- 61g without battery
Weight	- 124g with battery
	- CDMA2000 High rate packet data air interface
	- CDMA 1xRTT, IS-95A/B
Software Spec	- IS-637A
Command oppo	- IS-707-A
	- IS-837, IS-856, IS-866, IS-890-
Environmental	- Operating Temperature : -20 ~ 50
	operating remporators to





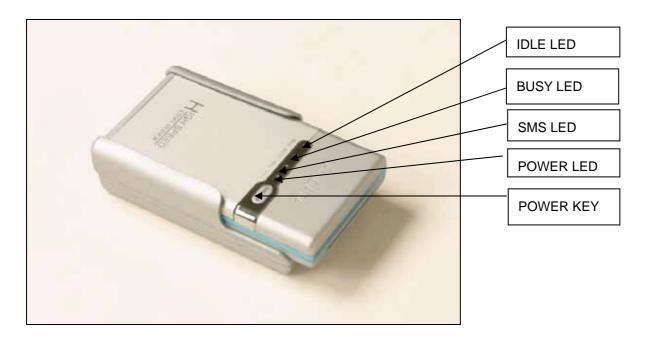
2. Getting Started

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) Have a proper user name and password from the local CDMA operator.
- 3) ANYDATA.NET USB MODEM must have been certified from the operator.

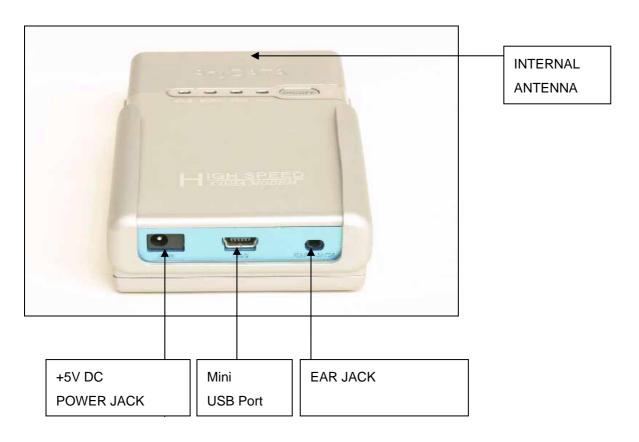
<CAUTION> PLEASE CONNECT THE BATTERY AND EXTERNAL POWER SUPPLY TO INSURE MAXIMUM PERFORMANCE OF THE MODEM. IF USING THE MODEM WHILE ON-THE-ROAD, PLEASE KEEP BATTERY INTACTED WITH THE MODEM. AND MAKE SURE THE BATTEY IS FULLY CHARGED BEFORE THE USAGE. WHEN THE BATTEY CAPACITY IS LOW, MAKE SURE TO CHARGE IT BEFORE CONTINUING TO USE.

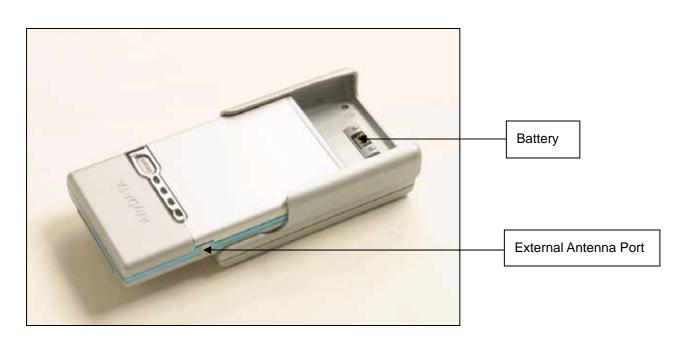
2.1 USB Modem Components





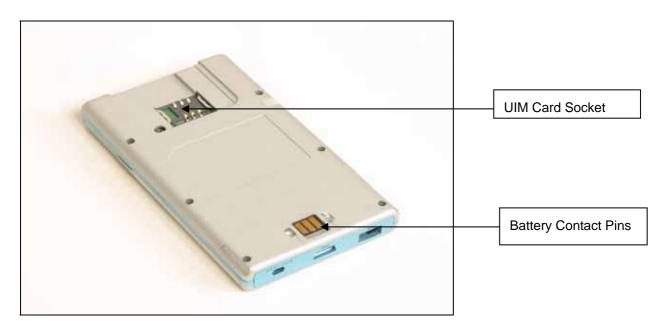












<Caution>

When dismounting the battery, push the bottom of modem upward to slide easily out from the battery cradle.

2.1.1 LED indicator Information

1) POWER:

- Blue : Use battery power only

- Blink : Low battery warning

- Red : Use external DC and not installed battery.

- Violet: Use external DC and installed battery

- Blink: In charging state

- Off: In power off state

2) IDLE (Service/Mode):

- Blue : Service in 1xEVDO mode

- Blink : Searching serving network in 1xEVDO mode

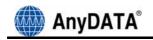
- Cyan : Service in hybrid mode

- Blink : Searching serving network in hybrid mode

- Green : Service in 1x mode

- Blink : Searching serving network in 1x mode

- Off: Forced offline mode





3) BUSY (Traffic)

- Blue : Data call connected - Data throughput exceed to 1200Kbps in 1xEVDO mode 70Kbps in 1x mode

Cyan : Data call connected - Data throughput between
 600Kbps to 1,200Kbps in 1xEVDO mode 30Kbps to 70Kbps in 1x mode

- Green : General call connected, Or data call connected - Data throughput under 600Kbps in 1xEVDO mode 30Kbps in 1x mode

- Blink: Incoming or outgoing call initiated and still attempt to connect

- Off: Not in connected state

4) SMS

- Yellow : Exists message in inbox

- Blink : New message arrived in inbox

- Off: Empty inbox

2.1.2 Other Components

1) Internal Antenna

Two antenna for diversity reception are already installed in the case

- 2) +5V DC Power Jack
 - +5V main power supply to USB modem and is used for charging
- 3) Mini USB Port

Connected to desktop or notebook computer

- 4) Ear Jack (Not Supported)
- 5) Battery Contact Switch
- 6) External Antenna Port

Used to improve signal reception and transmission

- 7) UIM Card Socket
- 8) Battery Contact Pins





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 3 for optimal performances)

< Recommended parameters >

Windows Update: Keep your computer up to date

3.3 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 Cancel button,

the installation of Easy Wireless Net Program will stop.







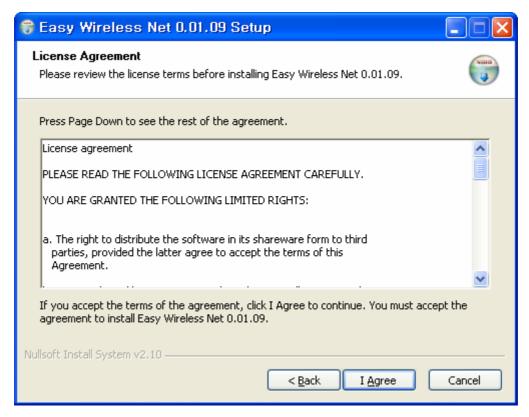
- 4) Welcoming message for using Easy Wireless Net Program window will appear.
- 5) Press button to proceed.



- 6) Next window is related to License Agreement. Please read carefully.
- 7) Press "I Agree" button to advance to the next step.





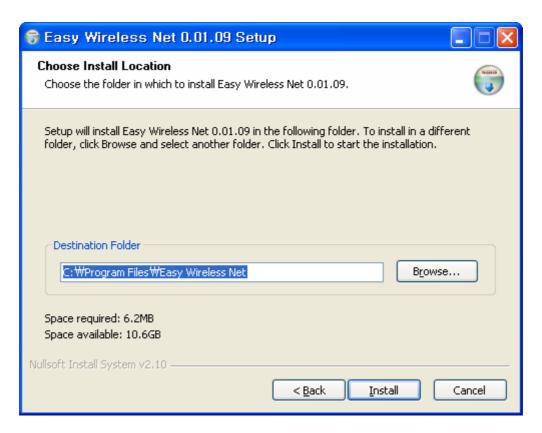


- 8) Next window displays asking proper path for installing the program.

 Default path is "C:\Program Files\Easy Wireless Net".
- 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 installing 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.

3.4 Connecting to ANYDATA.NET USB MODEM and Driver Installation and Uninstallation.

3.4.1 Proper connection and Driver Installation

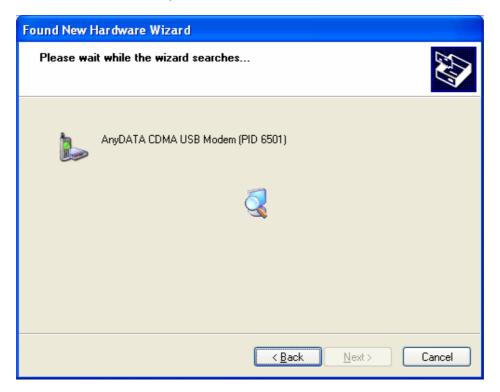
- 1) Connect the modem and PC's USB port with supplied USB cable.
- 2) Installing "AnyDATA USB Modem Driver" window will appear. Select "Install from a list or specific location (Advanced)".
- 3) Press button to proceed.







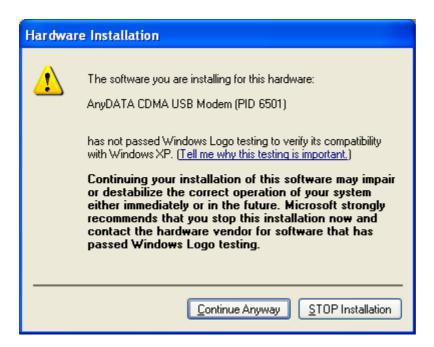
- 4) A window that displays a proper path of Driver will appear.
- 5) Select from the CD's path "[YourCDRomDirve]:\Driver\" folder for appropriate OS.
- 6) Press button to proceed.
- 7) A window that searches "AnyDATA CDMA USB Modem Device."



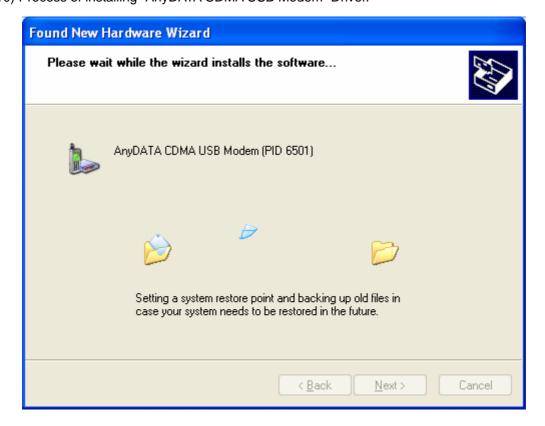




- 8) If found "AnyDATA CDMA USB Modem" it will asks for the installation.
- 9) Press Continue Anyway button to move to the next step.



10) Process of installing "AnyDATA CDMA USB Modem" Driver.







11) If the installation of "AnyDATA CDMA USB Modem" has been completed, following window will appear.



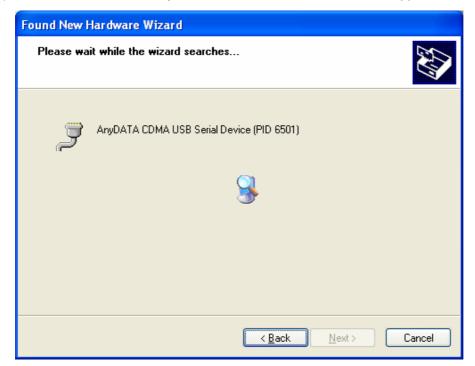
- 12) Next, it will install "AnyDATA CDMA USB Serial Device" Driver.
- 13) Select "Install from a list or specific location (Advanced)".
- 14) Press button to proceed.





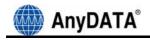


- 15) Select the proper path from the CD window will appear.
- 16) Select from the CD's path "CDRomDirve:\Driver\" folder for appropriate OS.
- 17) Press button to move to next step.
- 18) Window that searches "AnyDATA CDMA USB Serial Device" will appear.



- 19) When "AnyDATA CDMA USB Serial Device" has been found, it asks for the installation.
- 20) Press Continue Anyway button to proceed.







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

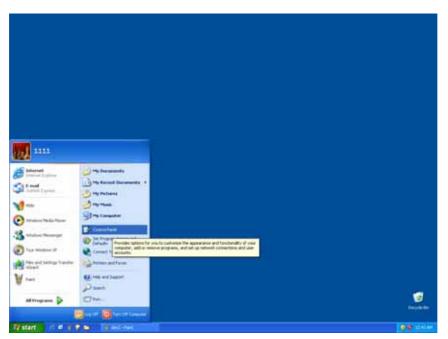


This will complete the driver installation.

3.4.2 Checking the proper installation of the Driver

If the Driver has been installed properly, it is possible to check the proper operation from Control Panel.

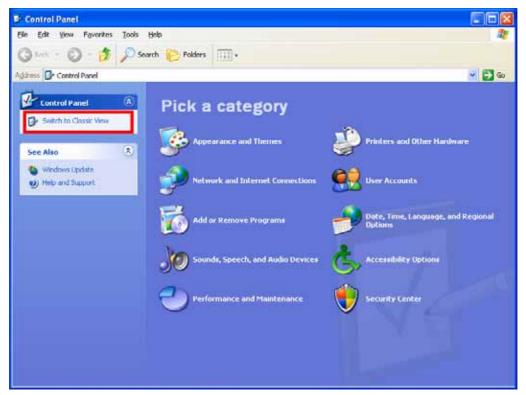
1) Start Control Panel.



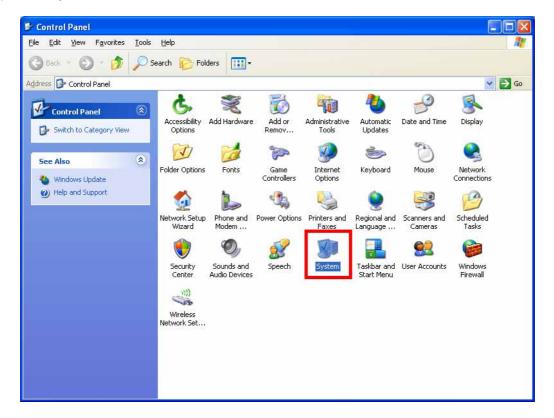




2) Select "Switch to Classic View."



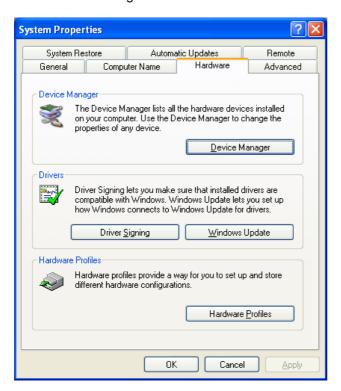
3) Select System.



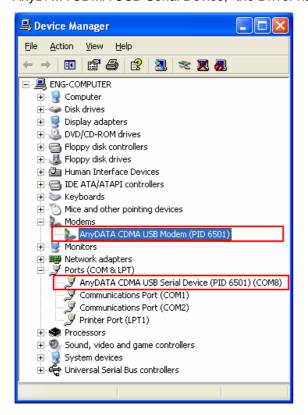




4) Select "Device Manager" from Hardware Tab.



5) 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.



Note:

Please pay attention and write down the COM number in "AnyDATA CDMA USB Serial Device (PID 6501) "(COM8)". In this case it was COM8, but it might be different for other installations.

This COM port number will be used in the "Easy Wireless Net" program for selecting proper port.





3.4.3 Uninstallation

When disconnecting USB cable from ANYDATA.NET USB MODEM and the USB port, the diver will be automatically uninstilled.







4. Using Easy Wireless Net Program

4.1 Running the program

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

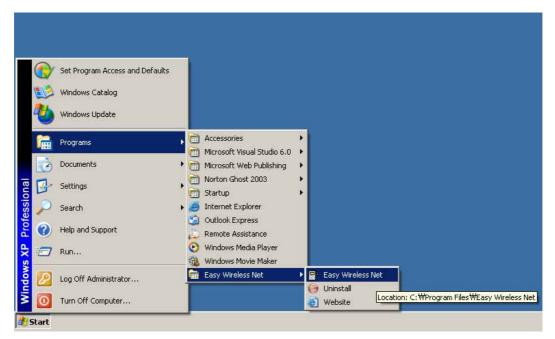


As shown below, either pressing shortcut icon





this program.







4.2 Exiting the program

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

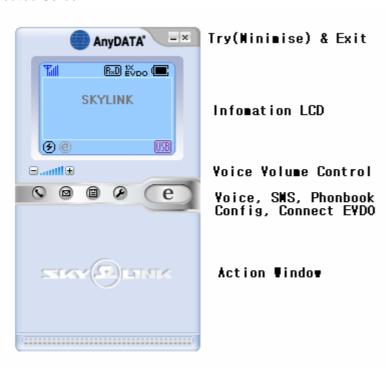


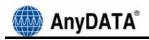
Note:

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

4.3 Screen Display of Easy Wireless Net

4.3.1 Executed Screen







4.3.2 Window for information and input







4.3.3 Description of each icon

Display	Function
T al	RSSI Signal Strength Indicator
<u> </u>	Calling Possible
×	Calling not Possible
⊠	New message arrived.
•	Voice Mail arrived.
®	Voice Mail and New Message arrived.
(R×D)	Rx Diversity Mode.
1X EVDO	Supports Hybrid mode
1X	Only 1X mode available
EVDO	Only EVDO mode available
Œ	Battery Indicator
	Battery Fully charged
7	Using external power source
USB	USB connected
U5B	Charging through USB
USB	Charge completed by USB
R	Roaming
3	Connected to the Modem
Ø	Either the cable is disconnected to the modem or improper port connection.
@	Internet connected
Ø	Internet disconnected
(e)	connected to the Internet button.
C	Disconnecting to the Internet
Ø	Setup Easy Wireless Net
0	Voice call menu.
0	SMS menu
ੰ	Phonebook Menu
	Sending message.
	Make a call
>	Call will be disconnected.
C	Displayed number will be erased.





4.3.4 Setting Environment

[About] Tab

Display the software version.



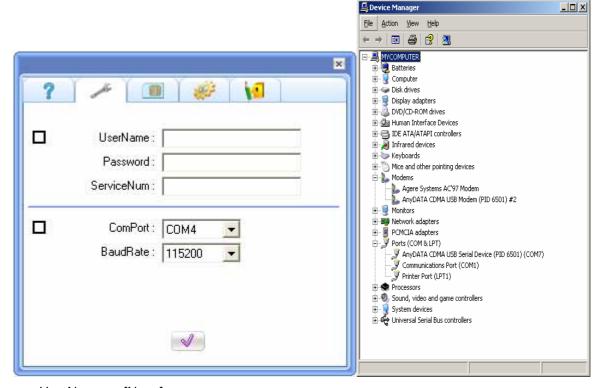




[Basic] Tab

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



UserName : [None]
Password : [None]

ServiceNum: (SKYLINK Internet Number)

ComPort: Port Select Option (Auto Scan) - [See the Device Manager]

BaudRate: 115200



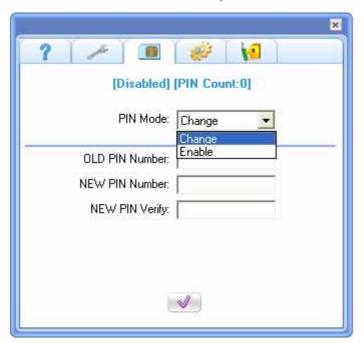


[RUIM Card] Tab

When changing information of the RUIM Card.

When changing information, must know PIN information.

Three times are incorrect and when, it does not use.



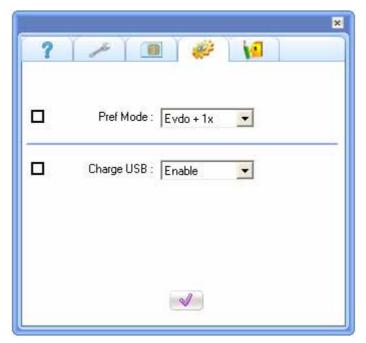




[Advance] Tab

This part is to change the important parameter for EV-DO modem.

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



Pref Mode:

Place to select a mode from 1x, EVDO and 1xEVDO.

[Note] Basically the modem supports all modes if the network supports them. However, if RUIM Card is not supported and any one of the mode is not supported by the network, then it is not possible to get connected in selected mode.

Charge USB

Enable: It is possible to charge the battery with USB cable.

By selecting this option, the battery will be charged by USB cable that has been connected to PC/Notebook.

Disable: Do not use USB charging feature.

By selecting this option, the battery will not be charged by USB cable.

The modem will use power from the battery.

<Caution>

Please never dismount or change the battery when USB charging status is set at Disable and the USB modem power is On.

This might damages the modem or disconnection might occur.

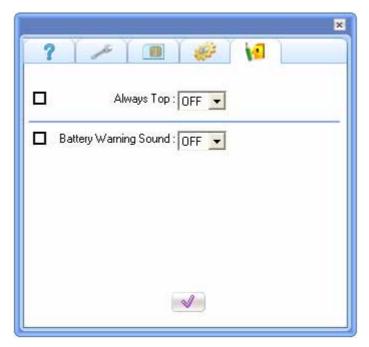
If battery is not charging, please check environment settings in dialer program for USB charging mode.





[User] Tab

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



Always Top:

Program it does to appear always top.

Battery Waning Sound:

Battery warning it uses.





4.3.5 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.



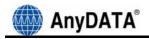
If the modem is trying to connect or connected to the Internet, this (a) icon will appear as shown above. If it cannot connect to the Internet, then (a) icon will appear.

4.3.6 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?





4.3.7 Sending and Receiving calls

Press Subutton.



Press calling number then press button to try to make a call.

By pressing button, the call will be disconnected.

When pressing button, all displayed number will be erased.

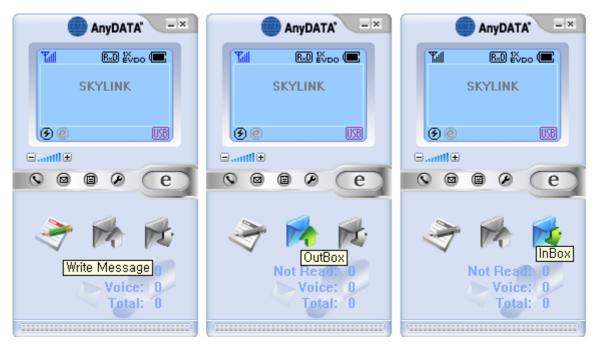
4.3.8 Sending and Receiving SMS

Press Dutton.









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.

4.3.8.1 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.



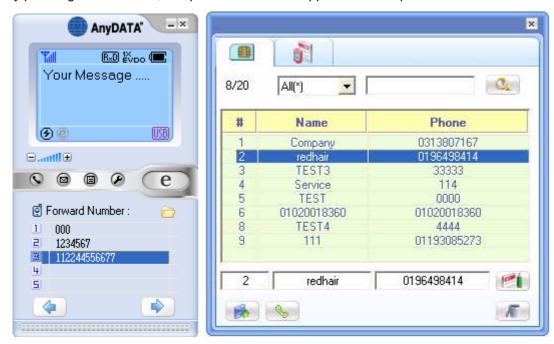
Note: By pressing special characters that is highlighted, that character will be written on the message window.

3) Input a phone number/numbers for sending SMS. It is possible to add upto 5 numbers.







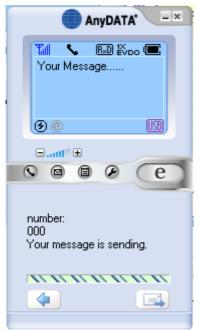


- 4) After inserting phone numbers, press button to move to the next step.
- 5) After selecting the number, press button to send the message.

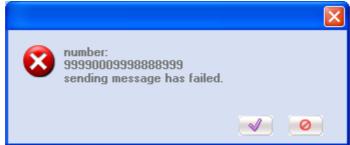








Sending Message has Failed.



4.3.8.2 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.



Note: Description of icons.

4.3.8.3 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.
M	Sent message.

Note: Description of icons.

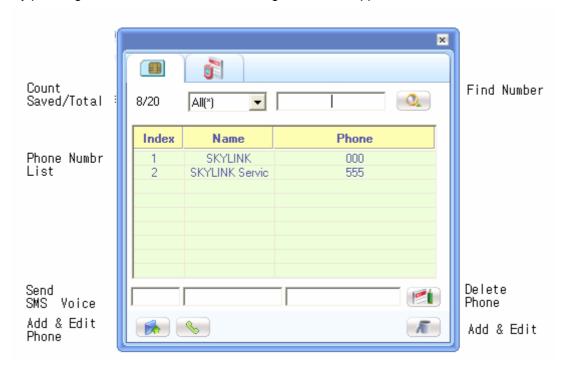




4.3.9 Phonebook

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.



[8/20] Maximum number of Phone numbers can be stored and currently saved phone numbers.



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

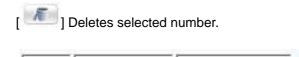
Index: Finds a phone number based on the index.

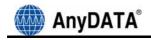
Name: Finds all names that contain any one of the letter to be searched.

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

[Sends SMS message to the selected phone number.

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

A: Yes, it is safe to leave adopter in the electric socket even after the battery is fully charged if you are using genuine battery and adopter from the manufacturer.

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

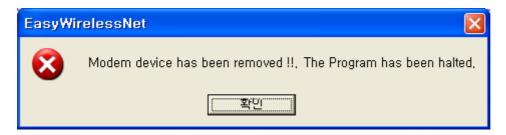






A: This means that USB modem and the compute are not connected properly. Please double check whether USB modem is connected properly to the computer.

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: 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: I tried to turn-on the modem by pressing ON/OFF button but unsuccessful.

A: Please dismount the battery and disconnect the USB cable, then remount the battery and connect the USB cable. If the power is still not on, please contact A/S center for further information.

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:





- - 2. Jet Engine 4.0:



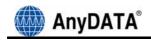


6. Quick Guide

6.1 Display Indicators.

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

RSSI Signal Strength Indicator Calling Possible Calling not Possible New message arrived. Voice Mail arrived. Voice Mail and New Message arrived. Rx Diversity Mode. Supports Hybrid mode Conly 1X mode available Conly EVDO mode available Using external power source Using external power source USB Charge completed by USB Roaming Connected to the Modem Itherate cable is disconnected to the modem or improper port connection. Internet connected Charging to the Internet Connected to the I	Display	Function
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Voice Mail arrived. Voice Mail and New Message arrived. Rx Diversity Mode. Noolly 1X mode available Only EVDO mode available Battery Indicator Battery Fully charged Using external power source Charging through USB 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 Setup Easy Wireless Net Voice call menu. SMS menu	×	Calling not Possible
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Rx Diversity Mode. Supports Hybrid mode Only 1X mode available FVDO Only EVDO mode available Battery Indicator Battery Fully charged Using external power source USB connected Charging through USB Charge completed by USB 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. Setup Easy Wireless Net Voice call menu. SMS menu	4	Voice Mail arrived.
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or improper port connection. Internet connected Internet disconnected connected to the Internet button. Disconnecting to the Internet Setup Easy Wireless Net Voice call menu. SMS menu	3	Connected to the Modem
Internet disconnected connected to the Internet button. Disconnecting to the Internet Setup Easy Wireless Net Voice call menu. SMS menu	Ø	
Connected to the Internet button. Disconnecting to the Internet Setup Easy Wireless Net Voice call menu. SMS menu	e	Internet connected
Disconnecting to the Internet Setup Easy Wireless Net Voice call menu. SMS menu	Ø	Internet disconnected
Setup Easy Wireless Net Voice call menu. SMS menu	(e)	connected to the Internet button.
Voice call menu. SMS menu	(e)	Disconnecting to the Internet
SMS menu	Ø	Setup Easy Wireless Net
	0	Voice call menu.
Phonebook Menu		SMS menu
	(E)	Phonebook Menu





	Sending message.
	Make a call
***	Call will be disconnected.
C	Displayed number will be erased.

Thank you.