CDMA2000 1X RTT Fixed Wireless Telephone

Quick Start Guide & User's Manual

MODEL : AP Series

REVISED HISTORY

DATE	CONTENTS OF CHANGES	REMARK
Feb 28, 2005	Initial Release	

REFERENCE & WARNING

Please read this manual before operating the phone, and keep it for the future reference.

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Model Number: AP Series
Version: Initial Release, Feb. 28, 2005

Follow the directions on this page to start using your phone now. For more information, refer to the rest of this user manual.

SAFETY INFORMATION

WARNING

- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- Do not use this product near swimming pools or other bodies of water.
- Before using your phone, check your output voltage.

IMPORTANT

Before installing or operating this product read this information.

OPTIMAL PHONE PERFORMANCE

- Do not operate your product when holding the antenna, or when someone is within four inches (ten centimeters) of the antenna. Holding the antenna affects call quality and may cause the telephone to operate at a higher power level than needed.
- For the best call quality, keep the antenna free from obstructions and point the antenna straight up.
- Do not use the unit with a damaged antenna. Have your antenna replaced by a qualified technician immediately. Use only a manufacturer-approved antenna. Non-approved antennas, modifications, or attachments could impair call quality, damage the phone.
- RF energy may affect improperly installed or inadequately shielded personal medical devices such as pace markers, hospital monitor. Consult the manufacturer of any personal medical devices to determine if they are adequately shielded from external RF energy. Turn your terminal OFF in health care facilities when any regulations posted in the areas instruct you to do so.

Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

▷Reorient or relocate the receiving antenna

▷ Increase the distance between the radio or television and the telephone.

▷ Connect the equipment into an outlet on a circuit different from that to which the terminal is connected.

▷ Consult you Authorized AIJI Dealer of an experienced radio/TV technician for help.

- Use only the battery, antenna and AC power supply provided by AIJI. Using any other type will invalidate the warranty.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may be dangerous and may invalidate the warranty.
- Do not use the unit in designated "No Cellular Phone Use" area.
- Avoid exposure to high temperature or humidity.

- Avoid wetting the unit with any liquids. If the unit gets wet, turn the power off immediately and remove the backup battery and AC power supply. If the unit is inoperable, then return to the service agent for service.
- Avoid shock or impact.
- We recommend you to charge the backup battery before initial use. Backup battery may be discharged during delivery.

CARE AND SERVICE

- Unplug the telephone from the wall outlet and remove antenna (or disconnect antenna cable) before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- If the unit fails for any reason, do not attempt to disassemble; contact the telephone service provider for assistance.
- If any of the following conditions exist; unplug the unit at the wall plug, remove battery, and call the service provider.

  ▷ The power supply cord is damaged or frayed.
  ▷ Liquid has been spilled into the unit.
  ▷ The unit has been exposed to rain or water.
  ▷ The unit has been dropped or damaged.
  ▷ The unit does not work normally by following the operating instructions.

CDMA2000 Fixed Wireless Telephone

Quick Start Guide

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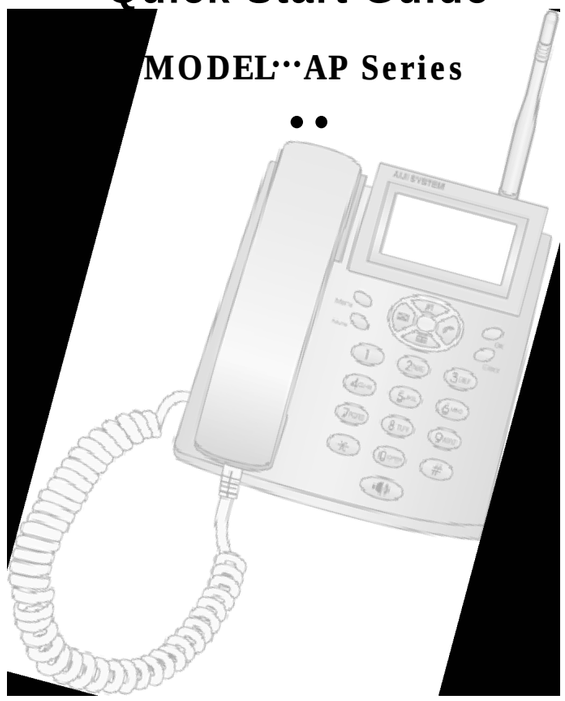

1. Getting to Know Your Phone

1.1 Key Definition

Key	Description
MENU	1. Activate MENU state (also MENU state in the call state)
	1. Activate SMS and Voice Mail state
MUTE	1. Set the [DND (Do Not Disturb)] function. It prohibits incoming calls when the phone is in the idle-state
	1. Send a dialed number when a call is placed and/or to redial and \ send the last number dialed
	1. Sound: 31 Ring tones/Alerts/Volume 2. Volume up (also function as a cursor in the edit state)
	1. Phone book 2. Volume down (also function as a cursor in the edit state)
OK	1. Store phone numbers and any settings you select in the menu within the phone's memory.
Clear	1. Delete the last digit/dial number (also exit without storing in the MENU state) 2. Deactivate a state - No store a value
	1. To make or receive a call using the speakerphone.

1.2 External Features

Features	Description
Antenna	Adjusting direction of antenna improves the voice and data quality
RF Connector	For connection to basic antenna or external antenna
DC Power Jack	For connection to power adapter
RS-232C port	For connection to PC for Internet
Power Switch	To turn on/off the phone

1.3 Icons

1.3.1 Standby Icons

Icon	Description	Icon	Description
	Signal strength in the service area.		Lock mode
	In use		Off-hook mode
	No Service		Alarm/Morning Call
	New message		Battery status
	Voice message		AC Power Mode

1.3.2 Sub Icons

Icon	Description	Icon	Description
	Message sent successfully		Mobile
	Message sending fail		Home
	Read Message		Office
	Locked Message		Other
	3-way Calling		Incoming Call
	Group		Outgoing Call
	Missed Call		

2. Basic Functions

Turn on your phone	1. Connect handset to the main set 2. Connect the antenna 3. Open the battery cover at the bottom of the main set and Insert backup battery. 4. Turn "ON" the battery switch. 5. Close the battery cover and connect the AC power supply.
Make a Call	1. Pick up the handset or press button. 2. Enter phone number
Answer a Call	When the phone rings, pick up the handset or press button
End a Call	Replace the handset or press button
Redial	1. Pick up the handset or press button. 2. Press button.
Speed dial (1- touch/2-touch)	1. Pick up the handset or press button. 2. For the location numbers of one digit, press and hold the corresponding digit key. For the other entry numbers, press the first digit key(s) briefly and hold down the last digit key.
Read new message	Press -> Inbox -> Select Card or Phone
Phone book search	Press button -> Enter the name

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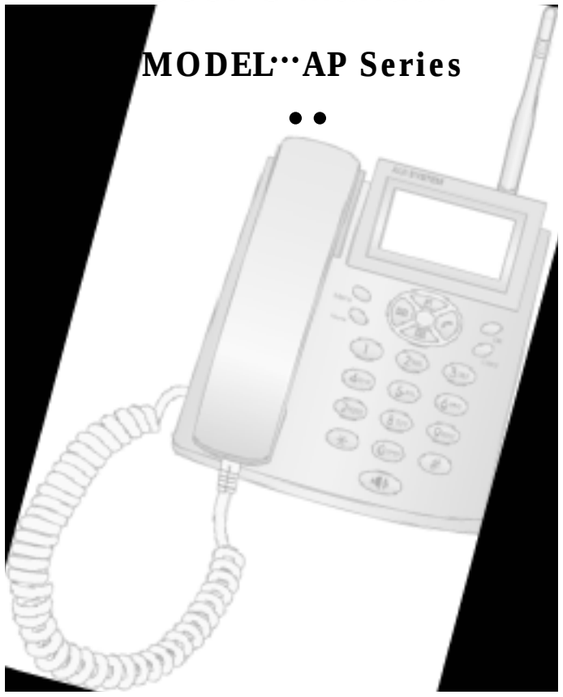
User's Manual

MODEL···AP Series



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Chapter 1. Introduction

1.1 Highlights and Features of AP series

Thanks for purchase of the AP Fixed Wireless Telephone. This telephone has been designed to operate on the latest CDMA 2000 1x RTT technology. This technology has greatly enhanced voice clarity and can provide various advanced features. Basically this telephone is designed for the desktop and the use in the office and a house. This can be easily installed in any place using the wall mount bracket (Optional Accessory).

The telephone provides:

- 4-line LCD display with status indicator.
  - 8-line LCD display to view text message easily.
- 128 x 64 Graphic LCD display.
- Window UI (Graphic User Interface): Pop-Up Animation Menu.
- Phone book
  - 200 memory locations to store names and telephone numbers in the phone.
  - Store name, 4 phone numbers (Mobile/Home/Office/Other), group and ring sound per location.
  - Group editing available.
- Brilliant 16-polyphonic midi sound
- A choice of 31 rings and melodies.
- Alarm (Morning Call): Various setting options (Once/Daily/Weekdays only (Mon ~ Fri)/Weekends)
- 50 text messages can be stored in the phone.

- 99 Voice Mail.
- Call History (Record&Time):
  Recent_30/Incoming_20/Outgoing_20/Missed_20
- Speed dialing (1- touch, 2-touch and 3-touch) with a 200 number memory.
- Call Forwarding/Call Waiting/Caller ID/Last Number Re-Dial
- Alert (No Service / Minute Minder / Connect Tone / Disconnect Tone)
- Emergency Call
- Hot Line
- Restrict Call
- Security
- Internet connection up to 153Kbps through RS-232C serial data port.
- Support the Authentication Key (A-Key)
- Various supplementary services such as Last Number Redial, Dial Tone and On Hook etc.
- Optional Functions: R-UIM, Speaker phone, LCD backlight, Button backlight

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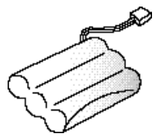
1.2 Check Components

• Your package contains the following items. The illustrations below may look different from your phone and accessories;

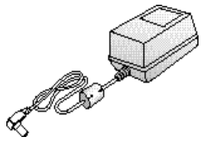
[Main Unit with handset]

[Dipole Antenna]

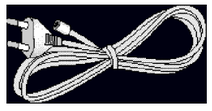


[Backup Battery]

[User's Manual]



[AC/DC power Adapter]



[Power Cord]

- In addition, you can obtain the following accessories for your phone from our local dealer in your country.

1) RS-232C Data Cable

2) Wall Mount Bracket

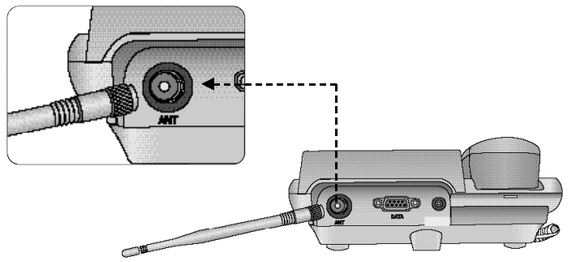
- Please make sure that these components are present before you begin the unit installation. And then compare the following figures and components. If components are missing or damage is found, contact the store where you purchased the unit immediately.

1.3 Installation

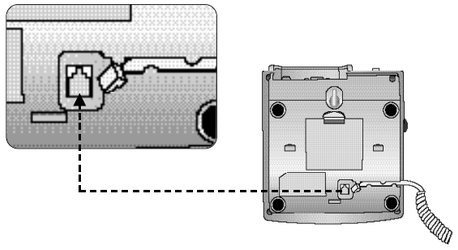
You should follow each step carefully as shown below in order to guarantee proper operation of CDMA Fixed Wireless Telephone.

1.3.1 Connect Components (See the figures in "Installation Steps")

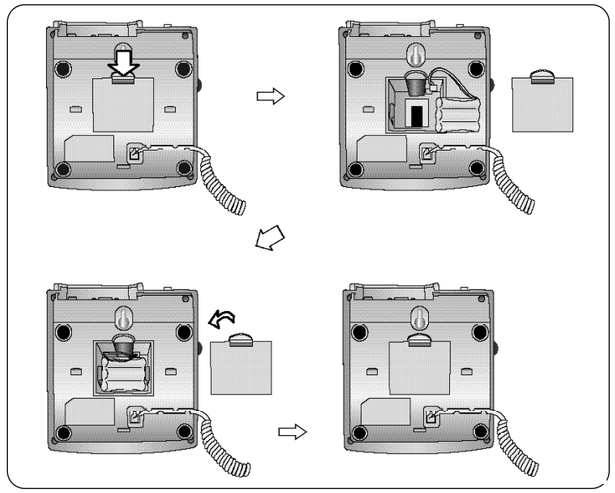
- Connect the antenna to the TNC antenna connector located at the top side of the terminal. If you placed the terminal on the flat surface, bend the antenna up right.



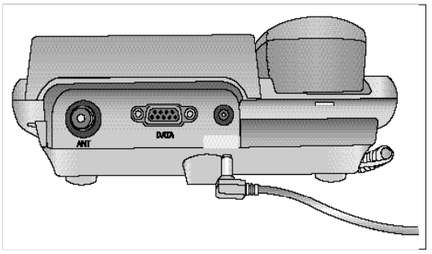
- Connect curl cord of handset assembly to the RJ-11C port located at the left side of the terminal.



- Open the battery case, securely connect the battery cord, place the backup battery pack and close the case.



- Check output voltage.
- Connect the AC/DC Adapter cable to the DC input port located at the topside of the terminal.



▷If it is good, beep tone is heard.
▷it is not good (Booting is fail or beep tone is not heard), you have to connect the adapter or backup battery, again.

- Please follow the below to get better voice quality;

1) Keep away from electrical appliances such as TV, computer, radio and so on.
2) Keep terminal in a high and central location with no obstructions, such as metal walls.
3) Raise the integral antenna of terminal to get maximum strength of receive signal as shown figure at the next page.

1.3.2 Installation Steps

Please follow the below procedure to install the unit properly.
1) Connect Base handset to the handset connector.
2) Connect the antenna to the TNC connector (Turn right).
3) Bend the antenna up right.

4) Open the battery cover at the bottom of the main unit.
5) Insert back-up battery in the bottom of the main unit. (Give care to polarity)
6) When you use terminal first, please turn "on" the battery switch.
7) Replace the Battery cover.
8) Connect the AC power supply.

Notice

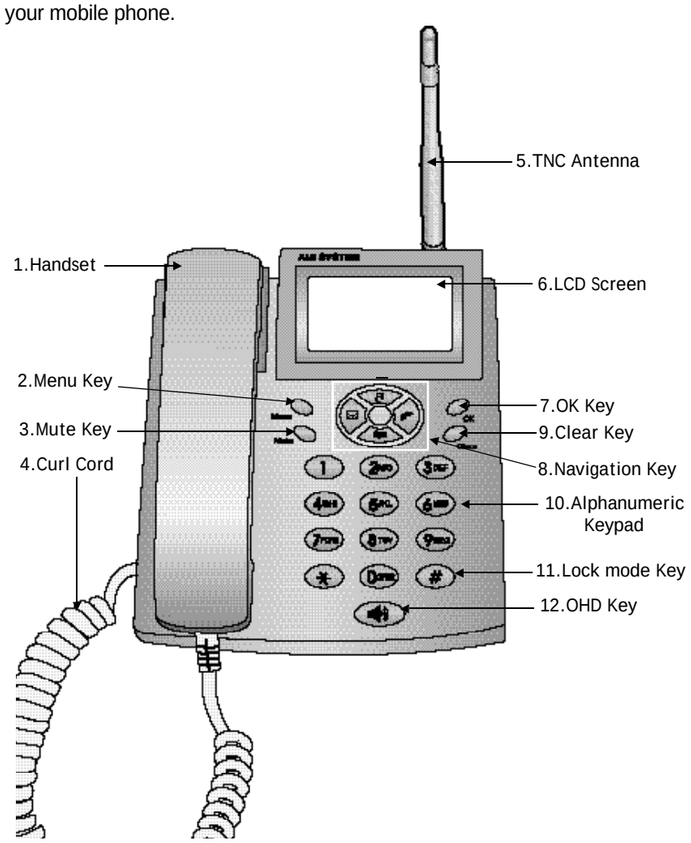
Before using the terminal,please check battery switch is on, after switching on it, use the phone.

1.3.3 Place the Terminal

- Place the terminal on the stable flat secure surface area (desk, table, etc.). Serious damage may result if the unit falls. Do not place the unit on, or within 1 meter of heaters or radiators. This unit is designed for desktop usage. Avoid direct exposure to the sunlights and damp area.
- Read the SAFETY INFORMATION located at the first part of this document before you place the terminal.

1.4 Phone Overview

The following shows key components of your mobile phone.



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1.4.1 Key Definition

Key	Description
MENU	1. Activate MENU state (also MENU state in the call state)
	1. Activate SMS and Voice Mail state
MUTE	1. Set the [DND (Do Not Disturb)] function. It prohibits incoming calls when the phone is in the idle-state
	1. Send a dialed number when a call is placed and/or to redial and \ send the last number dialed
	1. Sound: 31 Ring tones/Alerts/Volume 2. Volume up (also function as a cursor in the edit state)
	1. Phone book 2. Volume down (also function as a cursor in the edit state)
OK	1. Store phone numbers and any settings you select in the menu within the phone's memory.
Clear	1. Delete the last digit/dial number (also exit without storing in the MENU state) 2. Deactivate a state - No store a value 3. Press this key once in a menu, to go back one level.
	1. Off Hook mode 2. To make or receive a call using the speakerphone.

1.4.2 External Features

Features	Description
Antenna	Adjusting direction of antenna improves the voice and data quality
RF Connector	For connection to basic antenna or external antenna
DC Power Jack	For connection to power adapter
RS-232C port	For connection to PC for Internet
Power Switch	To turn on/off the phone

1.4.3 Viewing the Display Screen

The LCD shows icons on the top of the LCD screen. The icons indicate the setting status and operating status of the phone.

Icon	Description	Icon	Description
	Signal strength in the service area.		Lock mode
	In use		Off-hook mode
	No Service		Alarm/Morning Call
	New message		Battery status
	Voice message		AC Power Mode

1.4.4 Check the LCD Display

- After you follow the installation instruction 1.3.1 to 1.3.3, please check the LCD for normal operation.
- If you may not see status of service, please repeat the 5th instruction of 1.3.2. And conform Fixed Wireless Telephone to get the proper signal strength from service operator system.

※The adapter type(with power cord) may be different by country adaptation.

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Chapter 2. General Functions

2.1 Making a Call

When you make a call, follow these simple steps:

1) Make sure your phone is turned on.
2) Pick up the handset or press button.
3) Listen for dial tone. If the service is not available, you hear a no service tone.
4) Enter the phone number, with area code (if needed).
5) Wait for the Auto Time-out or press
   - If the phone is locked, take the following step.
   MENU → 6. Security Enter Password → 1 Lock Phone Select ⊙ **Unlock**
   - Call Failed indicates that the call did not go through. Please check Antenna Icon and call again a few minutes later.
6) The call is connected and you can start conversation.
7) To end the call, replace the handset or press button.

Tip 1: To redial your latest outgoing call, press to dial.

Tip 2: Your phone offers many different ways to make calls, including Speed Dialing ("Using One / Two / Three Speed Dialing" on page 30) and using Call History ("Viewing Call History (Incoming, Outgoing and Missed)" on page 37).

Tip 3: **This phone has been restricted** If this message displays on your screen, then outgoing calls are in restricted mode. You can only dial phone numbers saved in Emergency.

- If you want to turn off this function, take the following step.

MENU → 6. Security → Enter Password → 3 Restrict
→ 2 Outgoing Call → Select ▣No

Tip 4: When speed dialing is enabled, type in the phone book entry number and hold the last digit until the call is made.

2.2 Correcting Dialing Mistakes

If you make mistakes while dialing a number, press Clear once to erase the last digit entered or hold down Clear or at least two seconds to delete all digits.

2.3 Receiving Calls

1) Make sure your phone is on. If your phone is off, incoming calls go to voicemail.
2) When phone rings, pick up the handset (or press (Optional function)).
3) Start conversation.
4) To disconnect the call, replace the handset (or press (Optional function)).

2.4 Lock Mode (Quick)

Use to prevent others from using your phone.

1) In standby mode, to activate the Lock Mode quickly, press the # for 3 seconds. Lock mode Setting! will be displayed.

The lock code (password) is commonly the last 4 digits of your phone number.

Note To cancel the Lock Mode, Press MENU → 6. Security Enter Password 1 Lock Phone Select Unlock

2.5 Call Waiting / Call Forwarding

This menu contains network services, which allow you to forward incoming calls when you can't answer a call, to receive a second call. Please contact your service provider to check their availability and details.

2.5.1 Call Waiting

Your WLL service may offer a call waiting function. While a call is in progress, you may hear two beeps indicating another incoming call. When call waiting is enabled, you may put three active calls on hold while you answer the other incoming call.

1) Press to receive a waiting call.
2) Press again to switch between calls.

2.5.2 Call Forwarding

This feature enables incoming calls to be rerouted to a number that you specify. For example, you may wish to forward your business calls to your mobile phone while you are not in the office.

2.6 Mute

The mute function prevents the other party from hearing your voice, but allows you to hear the other party.

1) Press MUTE during a call.
2) To cancel Mute, press MUTE again.

2.7 Redialing Calls

1) Press to redial the last number in call history (Recent Calls).
   - You can also redial any of the last 60 numbers you have dialed, received and missed. The last 30 numbers are stored in the call history (Recent Calls) list. (See the Call History List on page 37.)

2.8 Adjusting the Volume

The volume keys on the top side of the phone can be used to adjust the earpiece, ringer, and keypad beep volumes. The upper key ( ) is used to increase and the lower key ( ) is used to decrease the volume.

- You may adjust the earpiece volume during a call.

2.9 Signal Strength

The call quality depends on the signal strength in your area. The current signal strength is displayed on the screen as the number of bars next to the signal strength icon: The more bars, the better the signal strength. If the signal quality is poor, move to an open area. If you are in a building, the reception may be better near a window. For maximum reception, make sure that the antenna is fully extended.

2.10 Caller ID Display

Caller ID lets you know who is calling by displaying the number of the person calling when your phone rings. If the caller's name and number are already stored in your phone book, the corresponding name appears with the number.

Tip 1: The LCD of the phone displays information such as:

- Date and Time
- Caller ID (caller's information [name and/or number])
- Number of missed calls
- Number of new messages
- No service status and Power Save Mode.

The phone will display most recent information.

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2.11 Speed Dialing

Speed dialing is a convenient feature, which allows you to make phone calls quickly and easily. Your phone recalls the phone number from your personal directory, displays it briefly and then dials it.

1) From off-hook stage, press the memory number (1 through 200) corresponding to the appropriate entry, and hold for a few seconds.

Tip 1: You should check with your service provider to ensure they offer this feature.

2.12 Phone Book Features

You can store up to 200 entries in your phone book with easy access to your most frequently dialed phone numbers and make a call by pressing entry number in off-hook state.

2.12.1 Personal Phone Book Memory

The phone has 200 personal phone book entry numbers where you can store up 4 phone numbers with 16 digits for each phone number

2.12.1.1 Saving Numbers in Your Personal Phone Book

1) Input the phone number that you want to save (up to 16 digits).
2) Press MENU → Select '1.Save' → Press OK
3) Select your desired label types Mobile, Home, Office, Other using the upper key ( ) and the lower key ( ).
4) Enter a name for the phone number (up to 16 characters)Press OK .
   If you do not want to enter a name, go to the next step.
5) You may select the desired ID ring type and group
   No Group, Family, Friend, Office, Other.

6) Press . A confirmation prompt "Saved" displays on the phone.

2.12.1.2 Retrieving Numbers

1) Press , the sub-menu appears.
2) Enter the character(s) that you want to search for (such as the few letters of the name.) → Press
3) You will see a list of matches. → Select the one using the upper key ( ) and the lower key ( ).
4) Press to see specifics in that memory location, or press to place the call.

2.12.2 Making a call from Your Phone Book

You can place a call from any memory location either by using speed dialing or by entering the phone number and pressing in off-hook state.

2.12.2.1 One-Touch Speed Dialing

This feature enables you to store your 9 (nine) most frequently used numbers in your phone book in memory locations (1 through 9).

1) For entries 1 through 9, you can use one-touch dialing by pressing and holding the corresponding key to the memory location to be dialed.
OR
1) Press a digit, then press .

2.12.2.2 Two-Touch Speed Dialing

This feature enables you to dial numbers in your phone book through two keys (for entries 10 to 99.)

1) Press the first digit.
2) Press and hold the key of the second digit.
OR
1) Press the first and second digit, then press .

2.12.2.3 Three-Touch Speed Dialing

This feature enables you to dial numbers in your phone book through three keys (for entries 100 to 200.)

1) Press the first and second digits.
2) Press and hold the key of the third digit.
OR
1) Press the first, second and third digits, then press .

2.12.2.4 Dialing from a Call History

1) From a call history list, press the scroll keys to go to the number you want to call.
2) Press .

Chapter 3. Menu Features

3.1 General Guidelines to MENU Access and Settings

1) Press . '1. Call History' menu will appear on the display screen.
2) Press to go other menu features.
3) Press the corresponding number to the menu item that you want to select. Then the sub-menu list will appear on the screen.
4) Press the appropriate key to select the sub-menu you want to access.
5) Select preferred settings, using the . Press to go one step backward while accessing menu or selecting settings.

3.2 List of Menu State

Main Menu	Sub-Menu	Setting Value
Call History	1.Recent Calls	1. Display the latest 30 calls incoming, outgoing and missed calls. - No. and caller's name or phone number are listed 2. Check talk time - Select one among listed calls and press [OK]
	2.Incoming Calls	1. Latest 20 incoming calls are listed - No., Caller's Name or Phone Number and Call Time are listed 2. Check talk time - Select one among listed calls and press [OK].
	3.Outgoing Calls	1. Latest 20 outgoing calls are listed - No., Caller's Name or Phone Number and Call Time are listed 2. Check talk time - Select one among listed calls and press [OK].
	4.Missed Calls	1. Latest 20 missed calls are listed - No., Caller's Name or Phone Number and Call Time are listed 2. Check incoming time - Select one among listed calls and press [OK].
	5.Call Timer	Last call / Incoming calls / Outgoing calls / Total calls
	6.Call Memo	During a call, used to save a phone number the other party tells you during a call without writing it down. The phone number is saved in Call Memo up to 10.

Main Menu	Sub-Menu	Setting Value
Call History	7.Clear History	1. Clear the call history in a sub-menu - Recent Calls / Incoming Calls / Outgoing Calls / Missed Calls 2. All History - Clear all calls listed in Recent Calls, Incoming Calls, Outgoing Calls / Missed Calls and Missed Calls
Phone book	1.Find Entry	1. By Name - When the box appears, enter the name and press [OK] - You can just enter the first few letters of the name, then press [OK]. Your phone shows the closest matching name. 2. By Location - Entry Number 001 ~ 200 in the phone 3. By Number - When the box appears, enter the phone number and press [OK] - You can just enter the few digits of the full number, then press [OK]. Your phone shows the closest matching phone number. 4. By Group - No Group / Family / Friend / Office / No Group / No Group - You can change Group name of 'No Group 1' and 'No Group 2'
	2.New Entry	Name (16chr) / Location (001~200) / Mobile (16chr) / Home (16chr) / Office (16chr) / Group(16chr) / Ring

Main Menu	Sub-Menu	Setting Value
Phone book	3.Edit Group	1. No Group 2. Family 3. Friend 4. Office 5. Other 6. No Group 7. No Group
	4.Memory Status	Phone 001/200 Card 01/200(*Max)
	5.Phone Info	1. My Phone # 2. S/W Version
Message	1.Inbox	1. Card 00/20 2. Phone 00/50 3. Voice Message 00 ~ * Message Listed 01~50 with Caller ID or Phone No. - Select by Up/Down Key or Numeric Key - [OK]: View message. Date and time of received message, caller's phone number or name and message are displayed. - [Clear]: Move to message list - [Menu]: Delete / Delete All / Lock
	2.Write Message	1. Send to - Write phone number. - Send a message to 10 persons at the same time. 2. Write Message - Write a message up to 160 characters

CDMA2000 1X RTT WLL Model : AP Series

Main Menu	Sub-Menu	Setting Value
Message	2.Write Message	3. Call Back # - Display own number - Write a phone number you want to receive a call to.
	3.Outbox	20 messages are listed
	4.Delete Message	1. Inbox 2. Outbox 3. All
	5.Message Settings	1. Display Message - Notify: Notify when the message is arrived. - Direct View: Display message including message information. 2. Auto Save - Prompt: Save or not - Auto Save: The latest 50 messages are automatically saved. - Do not Save: Delete message 3. Auto Delete - On/Off 4. Font Size - Font 8_16 / Font 8_8 5. Delivery Acknowledgement - On / Off
Sound	1.RingTones	31 ring tones and melodies
	2.Alerts /Tones	1. No Service - On / Off

Main Menu	Sub-Menu	Setting Value
Sound	2.Alerts /Tones	2. Minute Minder - Off / 1 Minute 3. Connect Tone - Off / Tone 1 ~ Tone 4 4. Disconnect - Off / Tone 1 ~ Tone 4
	3.Volume	1. Earpiece Volume: 1 ~ 4 Level 2. Ring Volume: 1 ~ 4 Level 3. Keypad Volume: 0 ~ 4 Level
Phone Setting	1.Hot Line	Yes / No You can make a phone call with picking up the handset in a few second you set
	2.Alarm Clock	Alarm 1 ~ Alarm3: Time / On or Off / Repeat (Once / Daily / Weekdays only / Weekens) / Ring
	3.Language	Support English and one more language
	4.Font Select	Font 1 / Font 2 / Font 3
	5.LCD Contrast	Level 1 ~ Level 30
Security	1.Lock Phone	Lock / Unlock
	2.Change Code	4 digit
	3.Restrict	1. Incoming Call (Yes / No) 2. Outgoing Call (Yes / No) 3. Messages (Yes / No) 4. Phone Book (Yes / No)

Main Menu	Sub-Menu	Setting Value
	4.Reset Phone	1. Reset Settings (Yes / No) 2. Reset All (Yes / No)
	5.PIN	Please Insert RUIM Card
Data Service	1.Data Rate	19200bps/115200bps/230400bps
	2.Incoming Mode	Voice only / Modem only / FAX only

3.3 Call History

3.3.1 Recent Calls

This menu allows you to view the 30 most recent outgoing, incoming and missed phone calls.

- Press MENU → 1. Call History → 1. Recent Calls
- You may place a call by pressing .

3.3.2 Incoming Calls

This menu allows you to view the last 20 calls received if you are subscribed to the Caller Line Identification service.

- Press MENU → 1. Call History → 2. Incoming Calls
- You may place a call by pressing .

3.3.3 Outgoing Calls

This menu allows you to view the last 20 calls dialed.

- Press MENU → 1. Call History → 3. Outgoing Calls
- You may place a call by pressing .

3.3.4 Missed Calls

This menu allows you to view the last 20 incoming calls that you failed to answer if you are subscribed to the Caller Line Identification service.

- Press MENU → 1. Call History → 4. Missed Calls
- You may place a call by pressing .

Tip 1 : Once you exceed the (total) 30-numbers or 20-numbers storage limit, the oldest call history record is overwritten.

Tip 2 : Speed dialing a number in the Call History List is available.

- Select the number you want to call. Press to place a call.

Tip 3 : To see the details of the call, select the number you want to see. → Press OK.

*No Name	→	Stored Name Display
*01491335593	→	Phone number
*05:23P Feb 01	→	The time of call connection
*00:01:11	→	Call time used.

Tip 4 : To save the call from the list to a phone book, press MENU → Select **'1.Save'** → Press OK.
(If you need further information please refer to 2.12.1.1 Saving Numbers in Your Personal Phone Book on page 29)

Tip 5 : To delete the call from the list, select the call you want to delete.
→ Press OK → Press MENU → Select ▣Yes

3.3.5 Call Timer

This menu allows you to view call time you use.

3.3.6 Call Memo

Used to save a phone number the other party tells you during a call, without writing it down. The phone number saved in [Menu] → 1. Call History → 6 Call Memo

3.3.7 Clear History

This menu enables you to erase all lists or part of Call History
○/Recent Calls /○Incoming Calls /○Outgoing Calls /○Missed Calls /○All History

3.4 Phone Book

You can store frequently used phone numbers and the corresponding names in the memory of your phone and R-UIM. Although, they are physically separate, used as if they were a single entity, called Phone Book. Phone Book makes it easy for you to make a call without having to remember or entering the phone number.
You can store up to 800numbers. (200 persons x 4 numbers)

3.4.1 Find Entry

This option allows you to search phone number you have stored in the Phone Book by name, location (entry), number and group.

- Press MENU → 2. Phone Book → 1 Find Entry

Note You can access this menu by pressing the key in standby mode.

3.4.2 New Entry

This menu allows you to store a number with a name in your Phone Book. You can save all the person's numbers, such as office number, mobile number and home number, into one entry. In the phone's memory, you can save 200 entries and each entry can contain up to 4 numbers.

3.4.2.1 Creating a New Entry in the Phone's Memory

- Press MENU → 2. Phone Book → 2 New Entry

1) Enter Name (16 characters) → Press OK → Enter mobile phone number (16chr) → Press OK → Enter home phone number → Press OK → Enter office phone number → Press OK → Enter other phone number → Press OK .
2) You may select group and the desired ID ring type using MENU and key.

Note 1 Group : ○No Group/○Family/○Friend/○Office/○Other/○No Group

Note 2 Ring type : 31 ring tones and melodies

3) To save new entry, press OK and then select the primary number among the numbers you enter

3.4.2.2 Storing Phone Numbers at Call History

To store a phone number at the end of your call:

- Press MENU → 1. Call History → 1 Recent Calls → Save / Delete

3.4.3 Edit Group

This menu allows you to edit the settings (Phone numbers, ring type and group) for the caller group.

- Press MENU → 2. Phone Book → 3 Edit Group

1) Select the group you want to edit → Press MENU → Display name of group → If correct, press OK . If not, press Clear to go back group selection status.
2) Select the entry you want to edit and press OK → Press MENU → Select [1. Edit / 2. Delete / 3. Cancel] with key.

3.4.4 Memory Status

This menu shows you how many Phone Book entries are empty.

- Press MENU → 2. Phone Book → 4 Memory Status.

Memory Statu
Pho 004/200 → The number of memory in the phone
Card 000/200 → The number of memory in RUIM card

3.4.5 Phone Information

This option allows you to view your own phone number and software version of your phone.

- Press MENU → 2. Phone Book → 5 Phone Info

<< Phone Info >>
1 My Phone #
2 S/W Version

3.5 Message

Text message and voice message become available as soon as the power is on. You can also send text and voice messages.
When the phone receives a new message, an alert sounds and a text notification displays along with the name and the phone number of the caller, if available. The New Message icon (✉) remains on the screen until the new messages have been read or the new voice messages have been listened.
You can access this menu by pressing the key in standby mode. In addition, you can make a call to the call back number by pressing the key during message check.
The phone can store up to 50 text messages at Inbox with 160 characters per message.

3.5.1 Inbox

Your phone can store up to 50 messages in the Inbox. If the memory is

full, a warning message displays and the phone deletes the old messages to receive new ones.

Note 1 If your phone support R-UIM, you can store more messages into your phone. The number of messages is depended on the capability of R-UIM card.

Note 2 Store capacity of voice message depends on your carrier's service capability. Please check how many voice messages can be stored before using.

- Press MENU → 3. Message → 1 Inbox or Press → 1 Inbox

< Inbox >	
1 Card	00/00
2 Phone	01/03
3 Voice Msg	

Ex) 01/03: '01' means the number of new messages.
'03' means the number of total messages stored.

- If you want it to view the details of stored message, select one of messages listed and press OK .

3.5.2 Write Message

You can create short text messages and send it to other (mobile) phones.

1) Enter a destination number by using the numeric keys up to 10 multiple destinations.
   Press MENU key allows you to search your Phone Book for a number.
2) When you are finished entering the destinations, press the OK key.
3) Write the message.
4) When you have finished, press OK .
5) Call back number is displayed. You can edit call back number using Clear key and numeric keys.

3.5.2.1 How to write a Text

At many times when you using your phone, you will need to enter text; such as when storing a name in Phone Book, sending Text Message. You can enter alphanumeric characters into your phone using your phone's keys.

1) Press MENU key to change the input method, abc / 123 / Symbol
2) Press * to change input method, ab / AB.

3.5.3 Outbox

This message box is used to store the messages that you have already sent or you failed to send. Up to 20 sent messages can be stored in the Outbox. Users may view lists and contents of sent messages or failed messages in this menu.

- Press MENU → 3. Message → 3 Outbox or Press → 3 Outbox
- If you want it to view the details of stored message, select one of messages listed and press OK

3.5.4 Delete Messages

Using this menu, you can delete all of the messages in each message box; 1 Inbox and 2 Outbox. You can also delete all of the messages at one time by selecting 3 All. Locked messages are not erased.

- Press MENU → 3. Message → 4 Delete Msg or Press → 4 Delete Msg

3.5.5 Message Settings

Using this menu, you can set up various options for using the messaging features.

- Press MENU → 3. Message → 5 Msg Settings or Press → 5 Msg Settings

3.5.5.1 Display Message

This menu allows you to select the display type for a new message.

○Notify: Notify when the message is arrived.

○Direct View: Display received message including message information.

3.5.5.2 Auto Save

This menu allows you to select save method for transmitted messages in the Outbox.

○Prompt: The phone asks whether or not you want to save the message.

○Auto Save: The phone automatically saves the message.

○Do not Save: The phone does not save the message.

3.5.5.3 Auto Delete

With this feature on, old messages are automatically deleted when you exceed storage limit.

3.5.5.4 Font Size

This option allows you to select font size for your convenience when you read and write message.

○Font 8_16: 4-line display

○Font 8_8: 8-line display

3.5.5.5 Delivery Acknowledgement

This option allows you to be certain the message transmission has gone through.

3.5.5.6 Store Message

This option is used for phone using R-UIM.

R-UIM phone : ○Card Only / ○Phone Only / ○Card->Phone

No R-UIM phone : "Insert uim card please"

3.6 Sound

You can use the sounds menu to customize various sound settings, such as the:

- Ringer type, volume and tone.
- Alert and tones
- Volume for earpiece, ring and keypad.

3.6.1 Ring Tones

This menu allows you to set unique ring and melody tones. When you make a new entry in a Phone Book menu, you can select one of these ring tones.

- Press MENU → 4. Sound →1 Ring Tones or Press → 1 Ring Tones
- You may select 31 ring tones.

3.6.2 Alerts/Tones

Your phone gives audible alerts (beeps) at specified times to inform you that certain things have happened. Any of the four Alert options could be turned on or off.

- Press MENU → 4. Sound → 2 Alerts/Tones or Press → 2 Alerts/Tones

3.6.2.1 No Service

When this option is set to on, the phone sounds an alert when you are not in or leave a service area.

- Off / On

3.6.2.2 Minute Minder

When this option is set to on, the phone sounds an alert before the end of every minute during a call.

- Off / 1 Minute

3.6.2.3 Connect Tone

When this option is set to on, the phone sounds a connect tone when your call is connected to the system.

- Off / Tone 1 ~ Tone 4

3.6.2.4 Disconnect

When this option is set to on, the phone sounds a disconnect tone when a call is disconnected.

- Off / Tone 1 ~ Tone 4

3.6.3 Volume

This menu allows you to adjust the ring volume.

- Press MENU → 4. Sound → 3 Volume or Press → 3 Volume
- Earpiece Volume: Level 1 ~ Level 4
- Ring Volume: Level 1 ~ Level 4
- Keypad Volume: Level 0 ~ Level 4

3.7 Phone Setting

Many different features of your phone can be customized to suit your preferences.

3.7.1 Hot Line

- Press MENU → 5. Phone Setting → 1 Hot Line → Yes / No
- You can set number and delay time.
  Examples) "911", "100", or your home telephone number

3.7.2 Alarm Clock

This option allows you to set an alarm to ring at a specific time.

- Press MENU → 5. Phone Setting → 2 Alarm Clock OK

To set an alarm:

1) Select an alarm, Alarm 1 through Alarm 3, and press the key.
2) Enter the time for the alarm to ring by using the numeric keys and press key.
3) Select On by pressing the or key and press key.
4) Select an alarm type by pressing the or key and press key.
   - Alarm type: Once / Daily / Weekdays only / Weekends
5) Select an alarm melody by pressing MENU. You may select 5 types alarm bells.

3.7.3 Language

This phone support English and one another language.

- Press MENU → 5. Phone Setting → 3 Language

3.7.4 Font Select

This menu allows you to select one among three font options (English and 4-line display only).

- Press MENU → 5. Phone Setting → 4 Font Select
- Font 1 / Font 2 / Font 3

3.7.5 LCD Contrast

This menu allows you to adjust the brightness of the LCD screen to see them better in different lighting conditions.
To adjust the contrast:

1) Press MENU →5. Phone Setting → 5 LCD Contrast → Press the OK key.
2) Adjust the contrast value by pressing or key.

3.8 Security

Your phone provides you with many security options, including a user-programmable lock code and call restriction features.
To access the Security menu, you must enter the lock code. The lock code is preset to "0000" at the factory.

3.8.1 Lock Phone

With this feature on, keeps your phone from unauthorized use. Once the phone is locked, it is in restricted mode, until the lock code is entered. This will allow you to receive phone calls and still make emergency calls.

- Press MENU → 6. Security → 1 Lock Phone
- Lock / Unlock

--3.8.2 Change Code

This menu allows you to enter a new four-digit lock code number.

- Press MENU → 6. Security → 2 Change Code

3.8.3 Restrict

This menu allows you to restrict the following items.

- Incoming Call / Outgoing Call / Messages / Phone Book
- Press MENU → 6. Security → 3 Restrict

3.8.4 Reset Phone

This feature has two options.

- Press MENU → 6. Security → 4 Reset Phone

3.8.4.1 Reset Settings.

This option allows you to reset preference settings.

3.8.4.2 Reset All

This option allows you to reset all settings and savings.

3.8.5 PIN (RUIM support model only)

- PIN Check

When this feature is enabled, you must enter the PIN assigned to your R-UIM each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval. But emergency calls are available by pressing the key without the PIN code.

Note: After enabling or disabling the PIN Check feature, you must enter your PIN.

- Change PIN

  This feature allows you to change the PIN of the R-UIM to a new one, provided that the PIN Check feature is enabled. You must enter the current PIN before you can specify a new one.

- R-UIM Lock

  When this feature is enabled, your phone only works with the current R-UIM. To use a different card, you need to enter the R-UIM lock code. Once you have entered the lock code, you are asked to confirm it by entering it again.
  To unlock the R-UIM, you must enter the R-UIM lock code.

3.9 Data Service

Your phone provides Data and PC Fax service. It is capable of transmitting and receiving Data through a wireless path by being connected to a laptop or desktop PC.
The following services are available.

- Packet Data Service
  - FTP, Internet, Intranet, LAN, E-Mail etc.
- PC Fax Service
  - Wireless Fax transmit/receive using the Winfax or Hotfax.

Note: In case of using USB to serial cable to connet the data service,you may not connect with Internet service without DC adaptor.

Appendix A. Specification

Frequency Range	AP-100/110	Tx : 824~849MHz Rx : 869~894MHz
	AP-200/210	Tx : 1850~1910MHz Rx : 1930~1990MHz
External Dimension	168(W)X189(L)X56(H)mm	
Weight	750g (With Back-up battery)	
Adaptor	Input : AC 100~240V, 50/60Hz Output : DC 5/12V, 1A * You must check your output voltage!	
Battery	Normal : 3.6V , 1,500 mAh	
Standby Time	72hours (-83dBm/slot#2)	
Talk Time	180Min (10dBm, Half Rate)	

Specifications are subject to change without Notice.

Safety Information

1 . SAFETY INFORMATION FOR FIXED WIRELESS TERMINALS

.POTE NTIALLY EXPLOSIVE ATMOSPHERES

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

.

INTERFERENCE TO MEDICAL DIVICES

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

RF signals may affect improperly installed or inadequately shielded electronic system in motor vehicles.

.EXPOSURE TO RF ENERGY

Use only the supplied or an approved replacement antenna.

Do not touch the antenna unnecessarily when the phone is in use.

Do not move the antenna close to, or touching any exposed part of the body when making a call.

SAR INFORMATION

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

Your wireless modem is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model when tested for use at the when worn on the body, as described in this user guide, is **1.15 W/Kg** . (Body-worn measurements differ among models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on **FCC ID: S3FAP-100** .

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

SAFETY INFORMATION FOR RF EXPOSURE

Body worn operation

This device was tested for typical body-worn operations with the back of the phone kept 25 mm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 25 mm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

FCC Compliance Information

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received.
Including interference that may cause undesired operation.

U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION

RADIO FREQUENCY INTERFERENCE STATEMENT

INFORMATION TO THE USER

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful Interference in a residential installation This equipment generates, uses, and can radiate radio frequency energy and, if Not installed and used in accordance with the instructions, may cause harmful Interference to radio communications. However, there is no guarantee that interference will not occur in a particular Installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

“Licensed by QUALCOMM Incorporated under one or more of following Patents :

4,901,307	5,490,165	5,056,109	5,504,779	5,101,501	5,778,338
5,506,865	5,109,390	5,511,073	5,228,054	5,535,239	5,710,784
5,267,261	5,544,196	5,267,262	5,568,483	5,337,338	5,659,569
5,600,754	5,414,796	5,657,420	5,416,797 ”		

CDMA2000 1X RTT Fixed Wireless Telephone

Quick Start Guide & User’s Manual

Made in KOREA

AIJI SYSTEM CO., LTD.