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# CDMA Fixed wireless telephone

# User Guide



**Model: ZLT S500**

**Read this manual carefully before operating the instrument.**

Ver 1.1

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## Introduction

Congratulations on your purchase of the ZLT S500 **CDMA2000-1X** Cellular Wireless Phone (Hereinafter referred to as Phone). The Phone has been designed to operate with the latest digital communication technology, Code Division Multiple Access (CDMA). The CDMA technology has many advanced features and provides an excellent voice quality

The Phone has advanced features as follows:

- Large, easy to read, Three line, backlit LCD with status icons
- Choice of 15 ring sounds, Power On/Off
- Two Way SMS and caller ID
- Large ergonomically designed Keyboard
- Long Battery stand-by and talk time
- Menu driven interface for easy operation and configuration
- Last Number Redial
- Adjustable ring and voice volume
- AC Power Supply
- Indoor Antenna
- Speaker Phone
- CDMA technology allows privacy of the call
- Any key answer, auto redialing, one touch and speed dialing with 200 memory locations
- Optional accessories available for greater convenience and enhanced functionality
- Easy Service and Repair
- Subscriber Call Charge Meter

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## **IMPORTANT INFORMATION**

This user guide provides information on the use and operation of your phone. Kindly read all the information contained in this user guide carefully prior to using the phone. This will help you in getting the best performance and shall prevent any unintended damage to the phone. Check the contents of the box as per the packing list and report any discrepancies immediately to the store from where phone has been purchased.

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## Do's & Don'ts

- Do not clean the phone while in operation. Before attempting to clean the Phone, turn the Phone off, disconnect the external power adapter and take out the battery or disconnect the external power supply if used. Before moving the Phone, disconnect the external power adapter or power supply in use. Use a Damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- Do not hold the antenna. This may affect call quality and cause telephone to operate at unintended power levels.
- Keep the antenna free from obstructions and position the antenna straight up. This will ensure best call quality.
- Do not use a damaged antenna. Have this replaced through a qualified technician. Use only antenna approved by the manufacturer. Unapproved antenna may impair the call quality as well as cause damage to the phone.
- **Only use the battery and the power adapter or the Power Supply provided with the Instrument. The instrument might get damaged if any other accessories are used. This will also void the warranty.**
- It is highly recommended to charge the battery before initial use. The battery might have been discharged during storage and delivery.
- Do not use with car battery. It may lead to electric shock or breakdown.
- Do not throw battery. Batteries are not to be disposed off by putting them in fire. It may explode or catch fire.
- Do not attempt to change the security codes or components. User is responsible for any consequences arising out of such attempt.
- Avoid Shock or Impact. Rough handling can cause damage to the body as well as internal circuits.
- Do not paint.
- During lightening, do not touch power plug or phone line. This can cause electric shock or death. Do not touch the external antenna.
- Your phone is to work with 90-300 V AC. Check the voltage before connecting.
- Do not plug many power cords in the outlet.

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- Do not touch the plug with wet hands. Always grasp and pull the plug, not the cord. Do not put heavy things on the power cord or bend it too much.
- Do not take out the backup battery without the guide of qualified service personnel.
- If the unit is not working for any reason, do not attempt to repair the Instrument. The Instrument should be serviced by qualified service personnel only.
- Place the Instrument and the power supply in a properly ventilated place. Do not place the Instrument near high temperature objects, under direct sunlight, near source of water, near fire or near inflammable and explosive materials.
- Do not place any articles over the instrument.
- Place the Instrument in a dry place and do not expose to moisture.
- Place the Instrument away from other electronic devices like TV and Radio to avoid interference.
- For a better reception, do not place the Instrument in a building with iron or metal roof. Hospitals or health care facilities may be using equipment sensitive to Radio Frequencies. Please ensure that your phone is turned off while in the vicinity of such facilities.
- Do not use the unit in designated “No Cellular Phone Use” area

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## Views



Phone: (1)The Base Instrument, (2)Handset,  
(3)Handset Cord, (4) Indoor Antenna

Note: The legends on picture shown may not be same as per the actual model.

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## Phone Functions and Features

Your phone provides following functions and features

### High Quality Voice Services

- Making calls, receiving calls, auto answering and recording.
- Vocoder 13K QCLELP, 8K EVRC
- Handsfree Operation

### Short Message Service (SMS)

- SMS in English: supports write, read, send, receive, delete, reply and forward.

### Phone Features

- **Language Support:** English ; Indonesia
- **Phone Book:** Supports 200 entries
- **Recent call records:** lists numbers of last 20 outgoing calls, 10 last incoming calls and 10 last missed calls.
- **Phone setup:** includes backlighting, ring tones and tones volume, speech volume, key press volume
- **Various alerts:** recharging prompt, low voltage, SMS prompt, key press, and minute alert during the call.
- **Ring tones:** Minimum 15 chord sound
- Incoming Call Display
- Various **Call Forward** (Unconditional Call Forward, No response forward, Busy forward) and call waiting.
- Mute

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## Phone Description

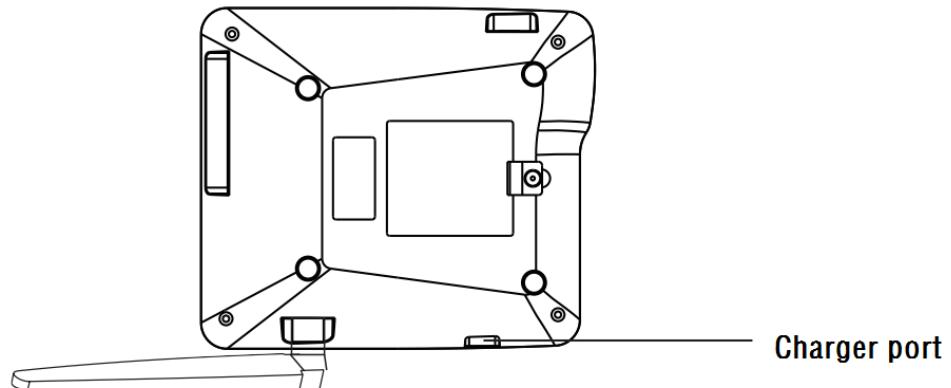


### TOP VIEW OF THE PHONE

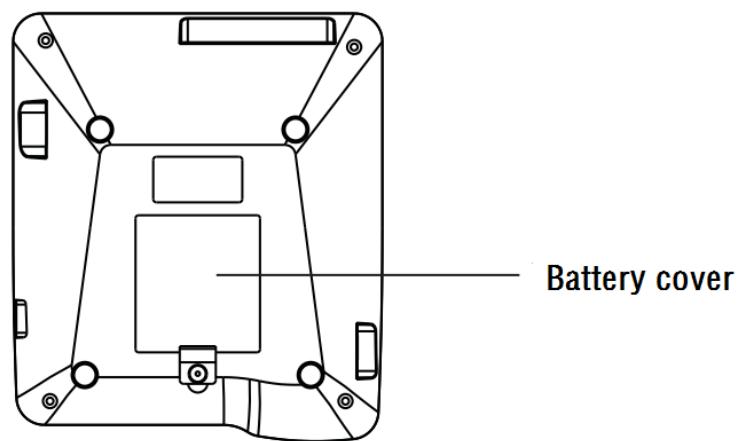
1) UP/DOWN Keys	2) IN-USE Indicator
3) RIGHT(BOOK) Key	4) OK/SELECT Key
5) SMS Key	6) CANCEL Key
7) END Key	8) HANDSFREE Key
9) RD/SEND Key	10) POWER ON/OFF Key
11) ALPHANUMERIC Keys	12) LEFT(MENU) Key
13) Hook Switch	14) Handset Retaining Clip
15) LCD Display	

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**Back Panel View**



1) Charger port



**BOTTOM VIEW OF THE PHONE**

1) Internal Battery Cover

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### LCD Display

Icon	Describe
	Digital Mode Indicator The icon will be displayed when the phone is in digital mode.
	Received Signal Strength Indicator (RSSI)
	Call Connected Indicator,It will be displayed when the phone is calling.
	It will be displayed when the phone is in roaming area.
	Message Indicator
	This icon will be displayed when the phone is set to voice call mode. In this mode the phone can receive the incoming calls and make outgoing calls.
	The icon will be displayed when power adapter is connected to the phone. It will disappear when power adapter (power supply) is removed or not working properly.

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## Installation

The following steps should be followed carefully in order to guarantee proper operation of the phone.

Step1: Check the components as per the packing list.

Step2: Placing the Phone

- Place the phone on a stable flat and secure surface (Table, Desk etc). Do not place the phone near heaters or radiators. Avoid direct exposure to sunlight or wet and damp areas.
- Read the Do's and Don'ts at the beginning of the user guide.

Step 3: Connecting the components

- Position the antenna upright.
- Connect coiled cord to handset jack on one side and the base instrument jack (located on the left) on the other side
- Open the battery case, connect the battery cord and place the battery pack and close the case.
- Connect the Adapter to the DC Input port located at the back of the phone. Connect the AC cord to the power adapter on one side and the Three Pin AC socket on the other side. Switch on the AC Power Supply. The indicator green light on the power adapter should light up.

### **Please observe the following for a better reception**

- Keep the indoor antenna upright to get the best RSSI.
- Keep phone where it is not obstructed
- Keep away from electrical appliances such as TV, Computer, Radio etc.

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## **BASIC OPERATIONS**

### **Menu Function**

User can press [Left] (No. 13 in Figure page 10) key to access the phone menu in idle state, use [UP] / [DOWN] (No. 1 in Figure page 10) key or number key [1-9] to select corresponding item, then press [CONFIRM/SELECT] key to enter. User can press [UP] / [DOWN] key to change the value, and select any one value by [ok] key.

In idle state user will enter the phone book – “Contact” directly by pressing [Right] (No. 3 in Figure page 10) key, enter message menu directly by pressing [SMS] key. To exit menu, press [END] key (direct to idle state) or [CANCEL] key (step by step to idle state). The whole menu structure is shown in below:

### **Menu Structure**

Level 1 Menu	Level 2 Menu	Level 3 Menu	Level 4 Menu
<hr/>			
Contacts (Phone book)	View Contacts		
	New Entry		
	Find Name		
	Groups	No Group	
		Family	
		Friends	
		Colleagues	
		Business	
		Classmates	
		Other	
	Delete All	UIM Contacts	
		Phone Contacts	
<hr/>			
Messages	New Message		
	Inbox		
	Outbox		
	Draftbox		
	Sentbox		
	Delete Msgs	Inbox	
		Outbox	

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		Delete All	
	Memory status		
<hr/>			
Call History	Incoming Calls		
	Outgoing Calls		
	Missed Calls		
	Delete Lists		
<hr/>			
Tools	Alarm clock		
	Calculator		
	World Clock		
	Stop Watch		
	Game		
	Calender		
<hr/>			
Settings	Sounds	Ringer	In Contacts
			Not in Contacts
		Volume	Ringer
			Key Beep
			Handset
			Handsfree
		Alert	Minute Beep
			Call Connect
			Power On/off
	Display		
<hr/>			

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	Backlight	7 second
		15 second
		30 second
		Always off
	Contrast	
	Hyphen	
	Language	
	Hyphen	
Security		
Network Service	Call Forward	FWD If Busy
		FWD If No Answer
		FWD Unreachable
		FWD Unconditional
	Call Waiting	
Phone Info.	Phone Number	
	SW Version	
One key Dial		

## Making a Call

### Making a Local Call

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(Lift the hand set or press the **HANDFREE SPK** Key)

Telephone number -> **RD/SEND(left software key)** Key

### **Making a STD Call**

(Lift the hand set or press the **HANDFREE** Key)

Area code -> telephone number -> **RD/SEND** Key

You can clear the last digit by pressing **CANCEL** Key.

If the call is over, hang up or hook on the receiver, and then press **END** Key to return to the idle state.

### **Making IDD**

(Lift the hand set or press the **HANDFREE SPK** Key)

+ -> Country code -> Area code -> telephone number -> **RD/SEND** Key.

Before you make an International distance call, press **0** Key twice and your screen displays the prefix symbol “ + ” of an International call.

### **Redialing the last number**

Press **RD/SEND** Key

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## Subscriber Call Charge Indication

### Checking the Information during the call

The IFWT will show elapsed time and charging unit on the screen during the call. Charging unit function should be provided by network, otherwise it always will show 0.

## Answering the Call

When the phone rings, LCD will display the incoming number. Pick up the receiver or press **SPK** Key to answer the call.

If you pick up the hand set before the phone rings, press **SPK** Key to answer the call.

**Note:** To display the incoming number requires the network to support.

### Ending the Call

Put down the handset when you answer the call by picking up the handset.

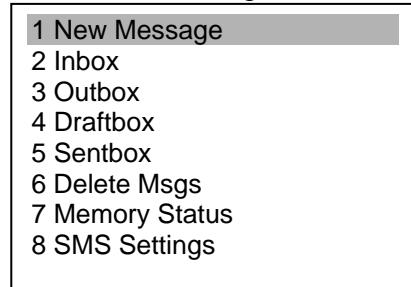
Press **SPK** Key when you answer the call by pressing **HANDFREE** Key.

Press **END** Key to return to the original state after ending call.

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## Sending SMS

When the phone is in idle-state, press **SMS** key, then press **[down]** key to select “1 Message”, the screen is displayed as follows:



On selecting “1 New Message”, user can first edit message contents, then select “**Next**” to enter the phone number.

To send the message, select “**Send**”.

## Reading SMS

When the phone is in idle-state, press **SMS** key, then press **[down]** key to select “3 Inbox”, the screen is displayed as follows:

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- 1 New Message
- 2 Inbox**
- 3 Outbox
- 4 Draftbox
- 5 Sentbox
- 6 Delete Msgs
- 7 Memory Status
- 8 SMS Settings

On selecting “2 Inbox”, user can read messages received by the phone.

#### Keyboard lock

Keyboard lock function can effectively prevent others from using your fixed words without your permission.

Specific operations: enter the menu - phone settings - security settings options, select one of the keyboard lock options, select the lock option, the phone into the keyboard lock state, the state can only use emergency call function and receive calls.

Unlock: select unlock key and enter security settings password to unlock.

(Note: Security settings password, you can change the password options to your own password in the security menu, the default password is 1234)

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## DATA SERVICES (Optional)

### Definition

The Phone provides Data Service and Facsimile Service by connecting to a PC (or Notebook).

Before you start installation, please check the minimum configuration required of your PC.

**Hardware:** CPU Pentium 300MHz, 64MB RAM, 2GB hard disk, 1 RS-232 serial port, 1 USB (ver1.1) port.

**Software:** Windows 98, Windows ME, Windows 2000, Windows NT or Windows XP.

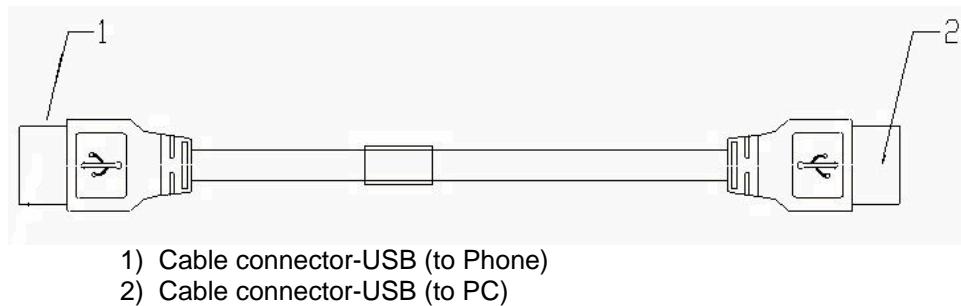
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## Hardware Connection

### USB Communication Cable

**To access internet data service from this phone, you should purchase the USB communication cables and software driver, which is described below and connect it to a PC.**

You should install the USB driver software on your PC.



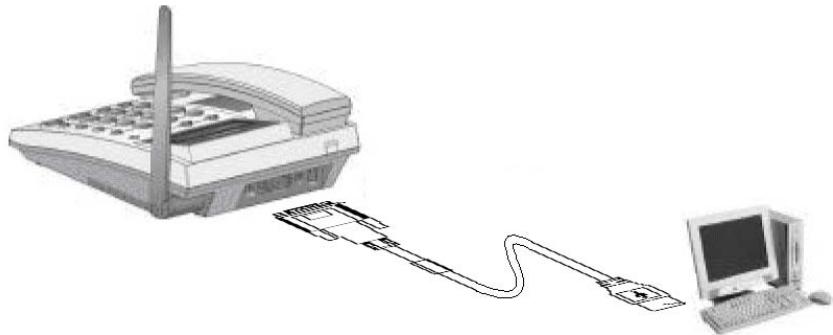
### Connecting the Phone to a PC through a Serial Communication Cable

As shown above, connect one end of the serial communication cable to a PC, insert the other end to the serial port (Data) of the Phone, and fasten the captive screws in place to ensure a reliable connection.

**Caution:**

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To avoid damage to the phone while making connections, make sure to turn off the Phone before making connection.



Phone and PC Connection using serial cable

## Computer Configuration

Modem Driver USB Installation

Run the `winusb_2.0.18 ModemDriver \ setup.exe`, and the software will automatically install.

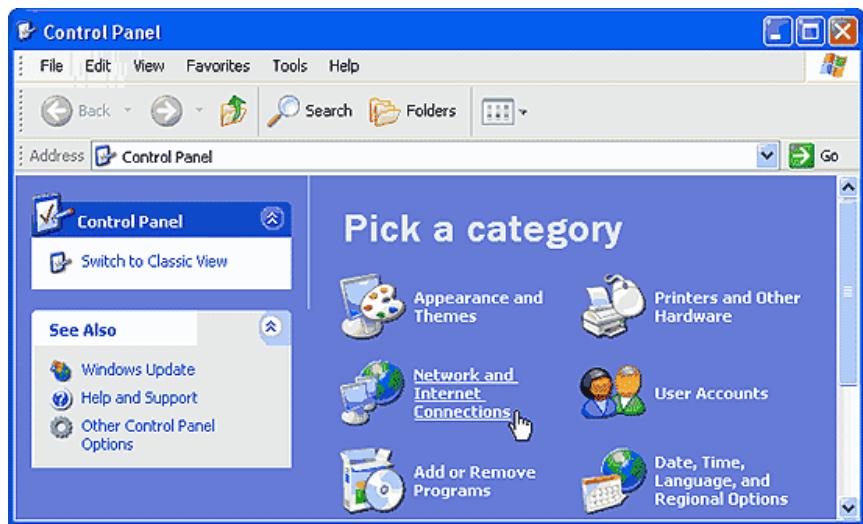
### Setting the computer

#### Creat Internet connection

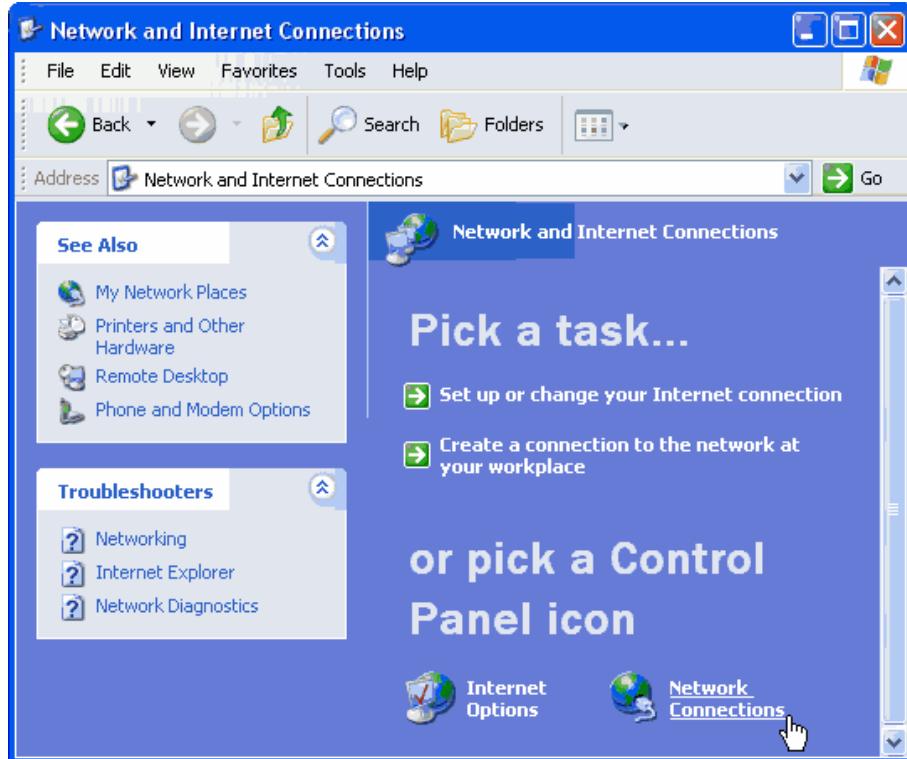
Step1: Click Start -> Control Panel



Step2: Double click the Network and Internet Connections icon



...and then click the Network Connections icon



Step3: From the Network Tasks list, select Create a new connection.



Step4: Click on Next

## New Connection Wizard



### Welcome to the New Connection Wizard

This wizard helps you:

- Connect to the Internet.
- Connect to a private network, such as your workplace network.

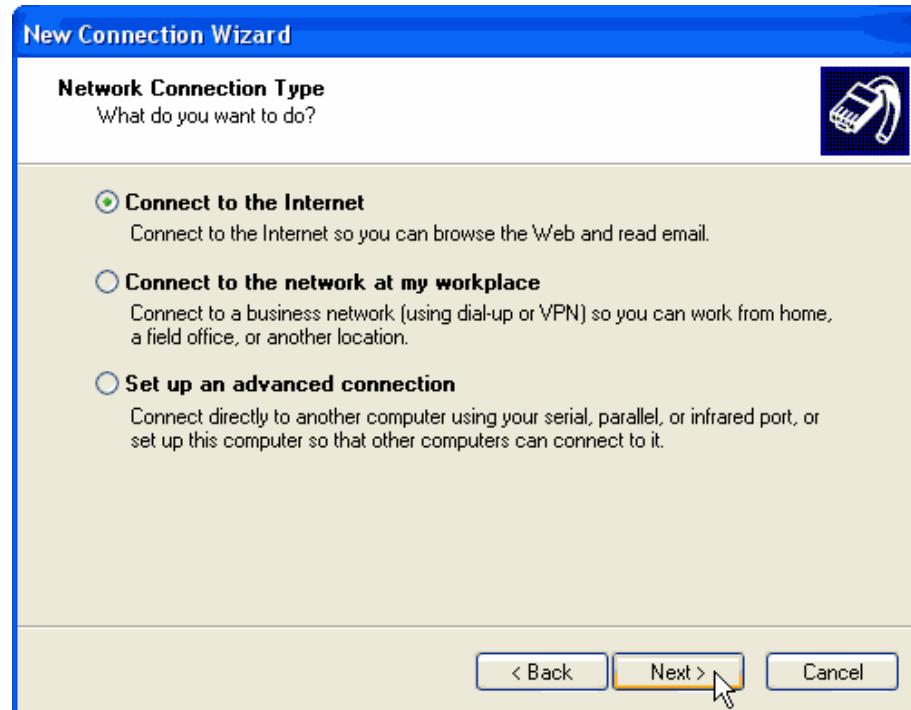
To continue, click Next.

< Back

Next >

Cancel

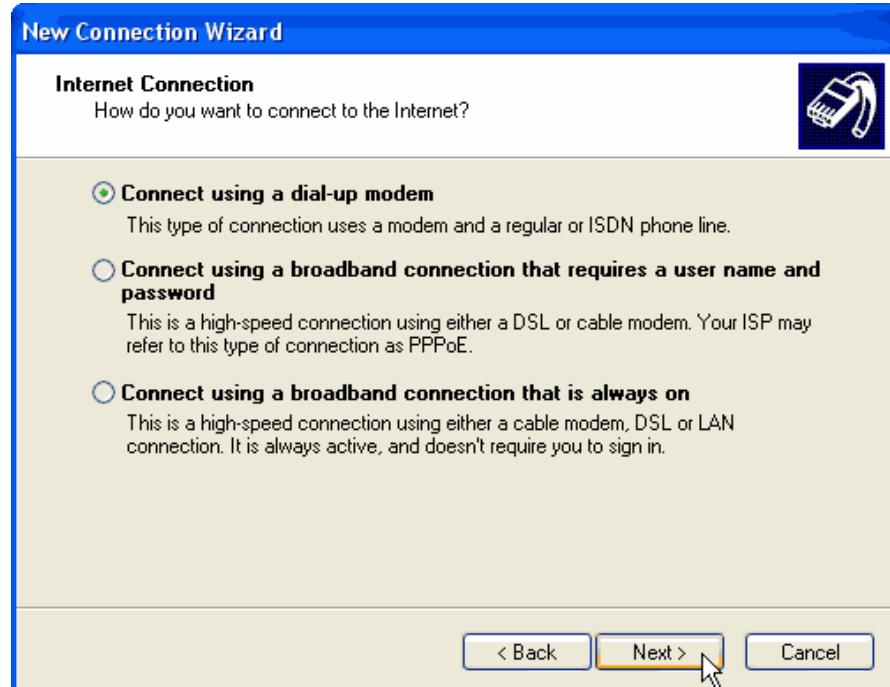
Step5: Make sure that the option Connect to the internet is active and press Next



Step6: At this point, select Set up my connection manually



Step7: The Connect using a dial-up modem option must be marked.  
Click on Next.



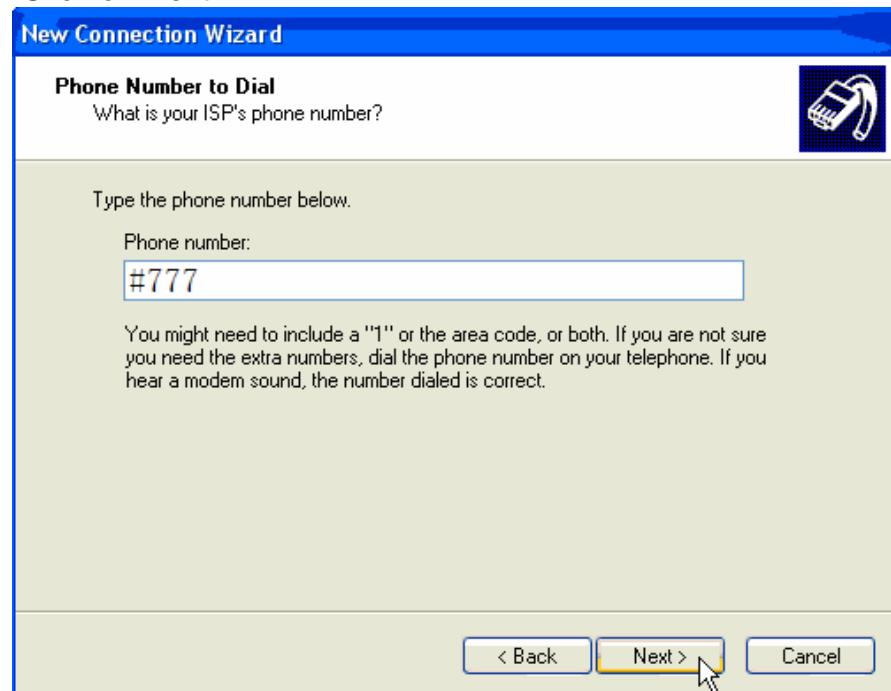
Step8: Type in a name that you wish your connection to be referred as and then press Next.



Step9: In the Telephone number field, fill in the number that has been provided to you, according to the connection account type you have with Dialog Telecom:

Phone number: #777

Click on Next.



Step10: Type in your username and password in the exact same way they have been provided by Dialog Telecom:(Enter user name and password to connect to the network. The dialling number, user name, password should have been provided by the network service provider. You are now ready to surf the Internet, send and receive Email, make Telnet, FTP, WWW etc.)

Username:card

Password:card



Step11: If you wish to create a shortcut to your desktop, check the:  
Add a shortcut to this connection to my desktop  
Press Finish to complete the procedure.



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## Appendix A: Text Input Method Guide

Press [#] key to switch between different text input method: “ABC” for Uppercase letter input, “abc” for lowercase letter input and “123” for number input.

Press [\*] key to input punctuation.

Press [0] key to represent blank in English text input state.

Press [0]~[9] key for the letter printed on them. For example, key [2] also represent letter “A”, “B”, “C”. in the lowercase English text input state, press key [2] one time will display letter “a”, press two time continually for letter “b”, press three time for letter “c”.

Press [0] button twice to gain “+” for international access code.

## Appendix B: Product Specification

Item	Description
Dimensions(WxDxH)	173mm×214mm×80mm
Weight(including internal battery)	Less than 0.8 kg
Mounting mode	Horizontal or wall mounting
Input voltage	DC: 5V
Internal battery	No
Maximum transmit power	200mW
Typical stand-by power consumption	21mW
Ambient temperature	-10°C-55°C
Storage temperature	-20°C-70°C
Relative humidity	5%-95%

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## Appendix C: Charger Specification

Item	Description
Input Voltage	AC 90-300V
Input Frequency	50/60 Hz
Output Voltage	5V DC, 1000mA

## Appendix D: Packing List

- The Base Instrument -1EA-
- The Handset -1EA-
- The Handset Cord -1EA-
- Internal Battery -1EA-
- Power Adapter -1EA-
- User Guide -1EA-
- USB data Cable -1EA-

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**FCC Statement**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the 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.

**SAR Information Statement**

Your CDMA Fixed wireless telephone 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

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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 phone when worn on the body is 0.42 W/Kg (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone 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: 2ARTB-ZLTS500 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 substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

<b>Model: ZLT S500</b>	<b>CDMA Fixed wireless telephone</b>
<b>Frequency: 800M</b>	