

NTRODUCTION

Axesstel's CDMA2000 1x fixed wireless terminals allow users to "get connected" to voice and data services with unprecedented ease. Powered by QUALCOMM's MSM5105 processor, these terminals provide data service through USB and RS-232 interfaces at rates of up to 153 Kbps. With RJ-11 phone connections, the users can enjoy rich features ranging from basic voice service to caller ID, call waiting, 3 way calling, and analog fax. User-friendly design and 4 LED indicators make these terminals easy to set up and use.

Features

Convenience Features CDMA-2000 1x (backward compatible to IS-95 A/B) Data service capability (153.6 Kbps max) 4 multi-colored LED indicators (Power, Signal Strength, Call Connection, and Voice Mail) Multi-extension (2 RJ-11 ports) RS-232C and USB Data via Special Connector Dial-Tone and DTMF Generation Desktop or Wall-Mountable Call Waiting, Forwarding, Transfer Three-way Calling Caller ID (displayed on Call ID campatible analog phone) Voice Mail Optional Range-extending Patch Antenna Optional Analog Fax (IS-707-A.7, A.4 backward compatible)

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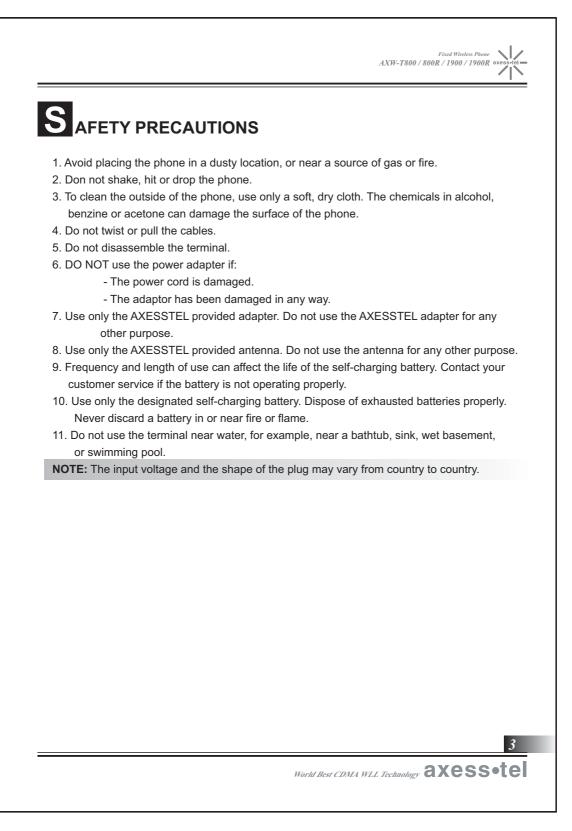
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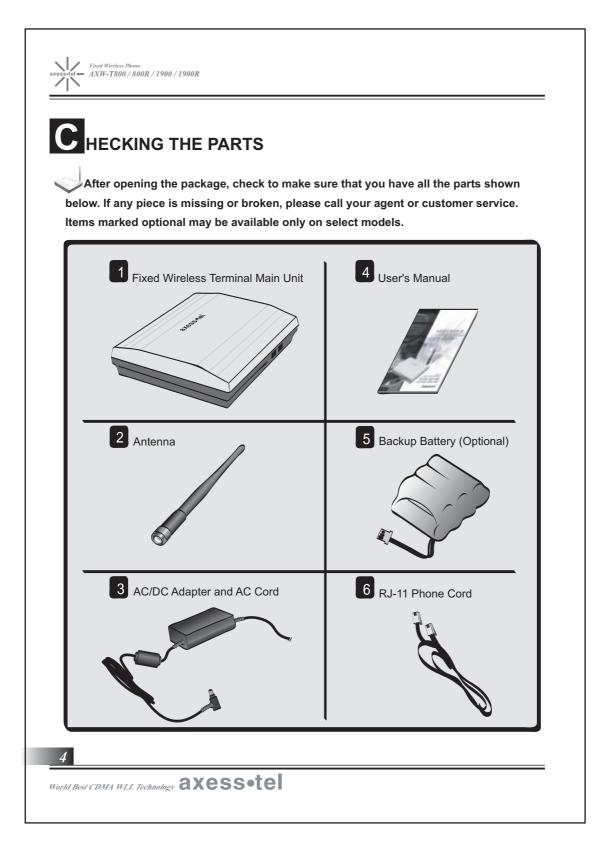
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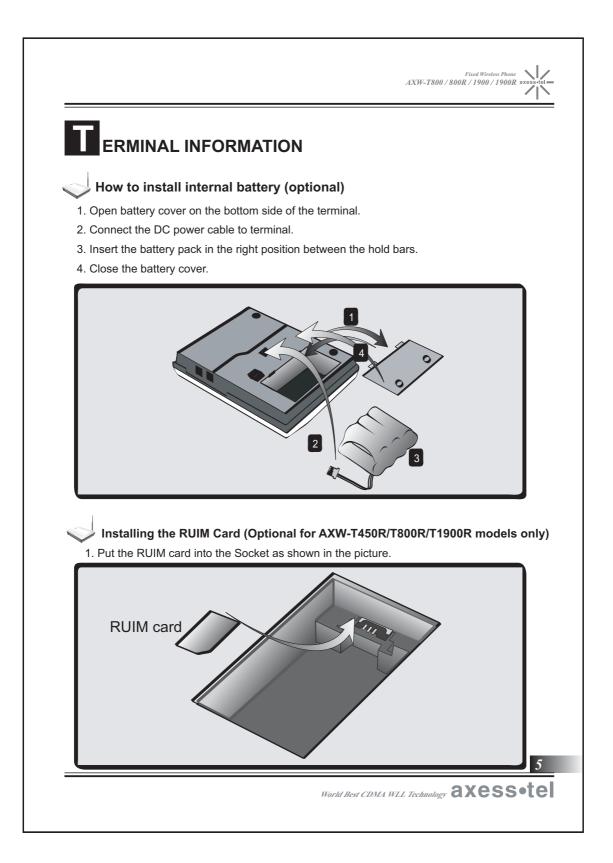
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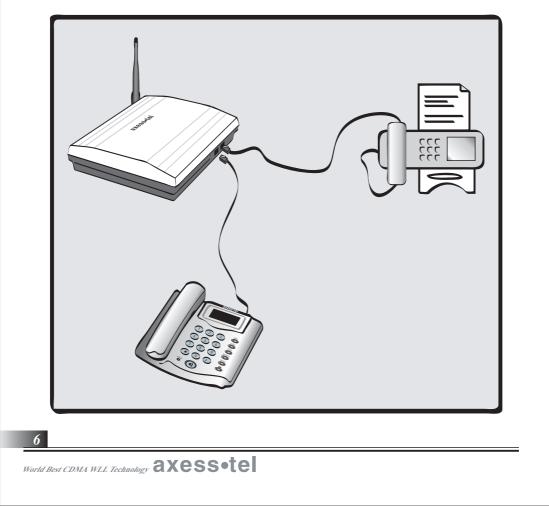


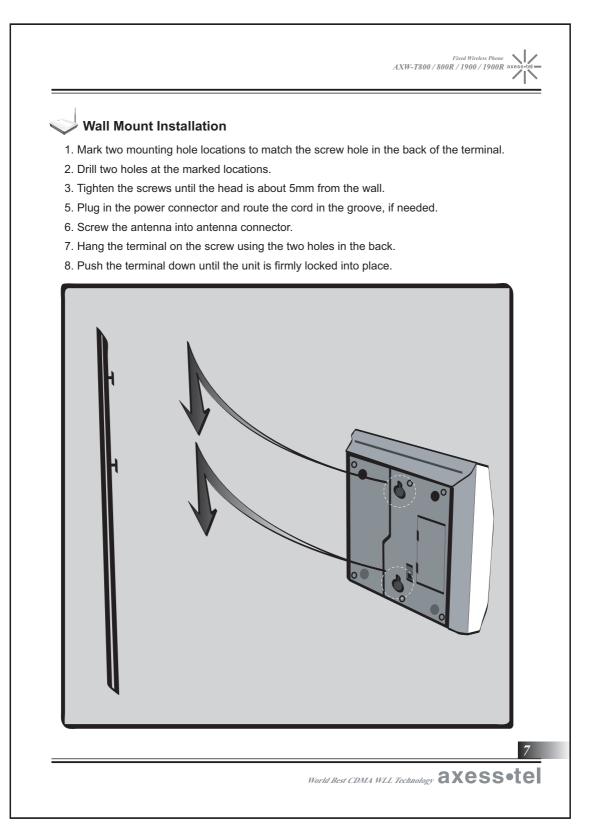
Desktop Installation

Fixed Wireless Phone AXW-T800 / 800R / 1900 / 1900R

This FWT ACW-T800/T1900 operates by receiving electricity from an electrical outlet or internal battery.

- 1. Connect the antenna on the back TNC connector of the terminal.
- 2. Connect a wire telephone to the terminal using an RJ-11 cord.
- **NOTE:** Use the telephone compatible to FCC part 68 only. Non-compliant phones may not work properly.
- 3. Plug the AC Adaptor jack into the DC 15V jack of the Terminal.
- 4. Plug the AC adaptor plug into an appropriate electrical outlet.
- 5. Connect an analog facsimile machine to one of the RJ-11 ports.





G ETTING TO KNOW THE TERMINAL

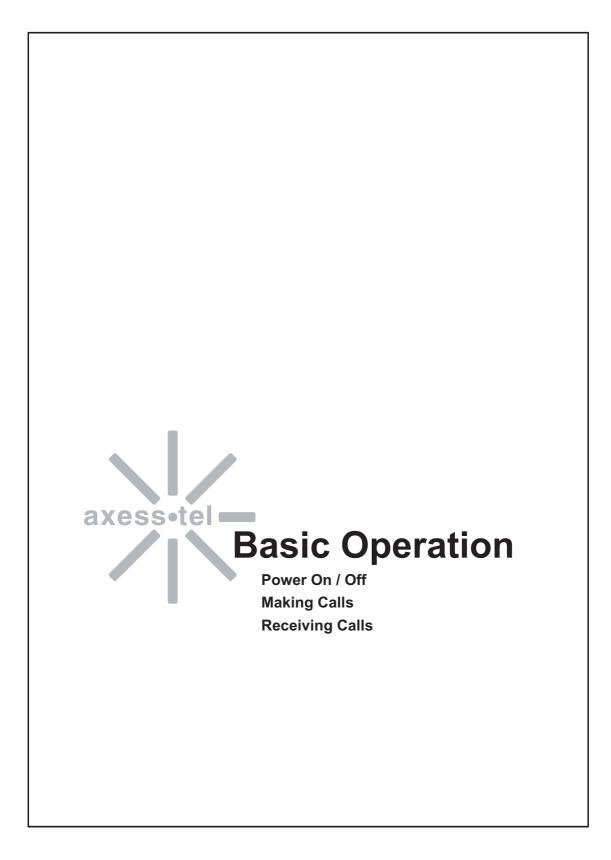
LED indications

LED	Color	Meaning
Power	Red	Power is being supplied by AC adapter
	Off	No power / Power is being supplied by battery.
Signal	Green	Excellant Service Condition
	Orange	Good Service Condition
	Red	Voice through the line is not clear but a call is available.
	Off	No Service Condition
Blinking		Incoming call
Battery		If there is external power, chrged complete.
	Green	Is not, full chrging.
	0	If there is external power, chrged .
	Orange	Is not, medium chrging.
Red		Low charged
	Off	No battery is installed.
		You have voice mail message. (If applicable)
		Normal operation without any voice mail message.

Sound indications

Туре	Condition	Meaning
Normal dial Tone	continuous	Terminal is in service area with adequate signal.
No Service Tone	1.5sec on 800 msec off	Terminal cannot make or receive calls. (No signal)
Outgoing call restriction tone	800 msec on 200 msec off	Terminal is configured to block outgoing call but it can receiving incoming calls.
Voice mail tone	beep-beep- beep	You have voice mail message.
Confirmation	bee-bee-beep	When using the menu with ** sequence, this sound alerts successful entry.
Error	howling beep	When using the menu with ** sequence, this sound alerts error entry.

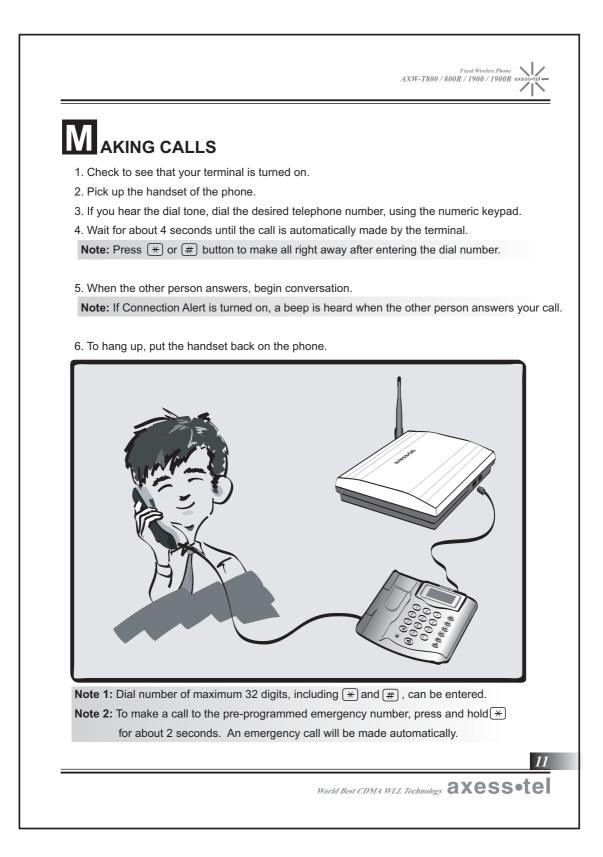
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	OWER ON / OFF
	nere is power switch on the bottom side of the terminal.
	ss the power switch more than 2 seconds to turn off the FWT.
	: When you turn on the terminal, it automatically searches for service signal. When successfully acquires service signal, it generates dial tone on the handset.
When	arting with RUIM (AXW-T450R/800R/1900R models only) the Pin Code of R-UIM Card is turned on, you may need to enter the Pin Code wher on the terminal.
1. Lift	he receiver of the analog telephone.
2. Usir	g the numeric keypad of the analog phone, enter Pin Code.
	 You may enter pin code up to 3 times. After 3 times, you will need to re-start the term Default pin code is provided by the service provider. Please contact your service pin case you do not remember the pin code.

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*		hen an incoming call is detected.
1. Pick up the	telephone handset to answer the call.	nen an meoning can is delected.
2. To disconne	ct after finished, replace the handset or	the phone
Note 2: When	sure that the attached telephone ringer an incoming call comes in, when you a	re holding the receiver, press any key
the n	umeric keypad of the phone to answer t	he call.

Advanced Feature

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Adjusting voice volume Setting alarm Setting 1 minute alert Setting connection alert Setting caller ID mode Setting autosend time Setting DTMF length Chang the lock code Restricting outgoing calls Restricting long distance calls Restricting international calls Terminal reset

DJUSTING VOICE VOLUME

You can control the volume level of the terminal.

- 1. Pick up the handset.
- 2. Press * * 11.
- 3. Press to raise \times or # to lower volume.

Note: Some telephones may have their own volume control. Use both the terminal and the telephone volume controls to optimize the sound level.

S ETTING ALARM

Alarm feature can be set to ring at a set time. The phone connected to the terminal

will ring.

To set up alarm time.

- 1. Pick up the handset.
- 2. Press ★ ★ 1 2 # .
- 3. Enter time (24 hour time). For 2:30PM, enter 1430#.

To disable alarm

1. Pick up the handset.

2. Press ** 12*.

ETTING 1 MINUTE ALERT

When this feature is enabled, a discrete tone is generated at each one minute interval on the receiver during conversation for both incoming and outgoing calls. This tone is to help the user keep track of the phone usage.

To change the setting:

1. Pick up the handset.

2. Press * * 13.

3. Press # to enable or press \times to disable.

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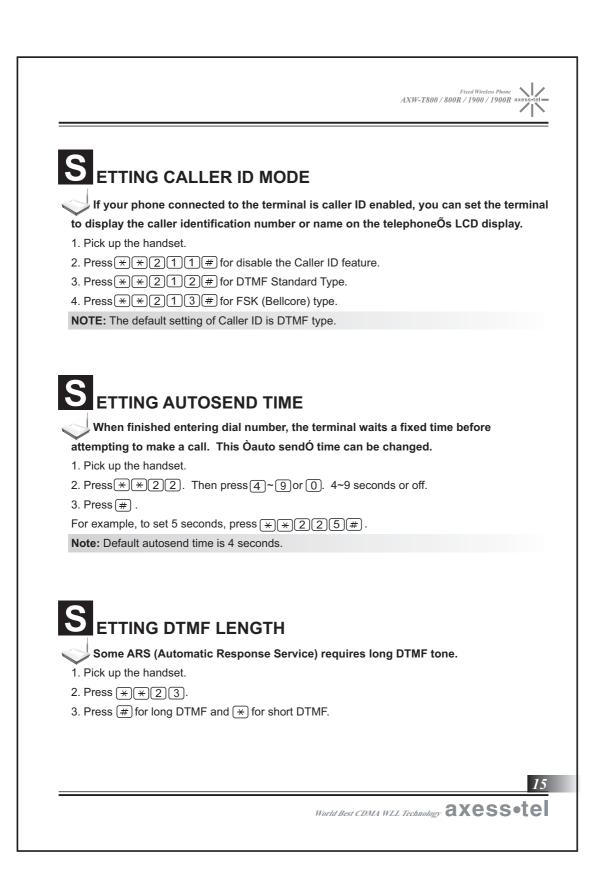
To change the setting:

1. Pick up the handset.

2. Press * * 13.

3. Press # to enable or press \times to disable.

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HANG THE LOCK CODE

The lock code prevents the terminal from being used by unauthorized person without your permission. The default lock code is \dot{O} O O O O O O.

To change the lock code:

- 1. Pick up the handset.
- 2. Press ** 31.
- 3. Enter old 4 digit lock code followed by #. For example 0000#. Beep sounds as confirmation. If not correct, error tone will sound and the terminal returns to standby mode.
- 4. Enter new 4 digit lock code followed by # . For example 1 2 3 4 #. Another beep sounds as confirmation.
- 5. Re-enter 4 digit lock code followed by #). For example 1 2 3 4 #). Another beep sounds as confirmation. If not correct, error tone will sound and the terminal returns to standby mode.

R ESTRICTING OUTGOING CALLS

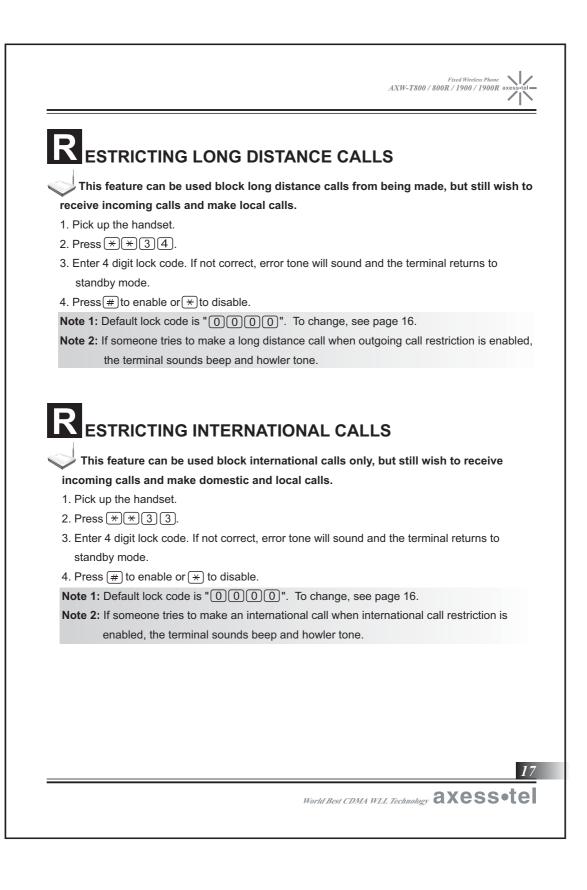
This feature can be used block outgoing calls from being made, but still wish to receive incoming calls at any time.

- 1. Pick up the handset.
- 2. Press * * 32.
- 3. Enter 4 digit lock code.
- 4. Press # to enable or * to disable.

Note 1: Default lock code is "0000". To change, see page 16.

Note 2: If someone tries to make a call when outgoing call restriction is enabled, the terminal sounds beep and howler tone.

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ERMINAL RESET

Resets the terminal back to the factory default state.

- 1. Pick up the handset.
- 2. Press ★ ★ 3 5 .
- Enter 4 digit lock code. If not correct, error tone will sound and the terminal returns to standby mode.
- 4. Press # to reset.

Note 1: Default lock code is " 0 0 0 0 ". To change, see page 16.

Note 2: This feature is automatically set after 3 seconds with a confirmation tone.

D ATA SERVICE

Serial Cable & USB Cable

Depending on whether you use a serial cable with 9-pin RS-232 connector or a USB cable, the terminal must be set to appropriate Port setting.

1. Pick up the handset.

2. Press (*) (4) (1) to select Serial cable.

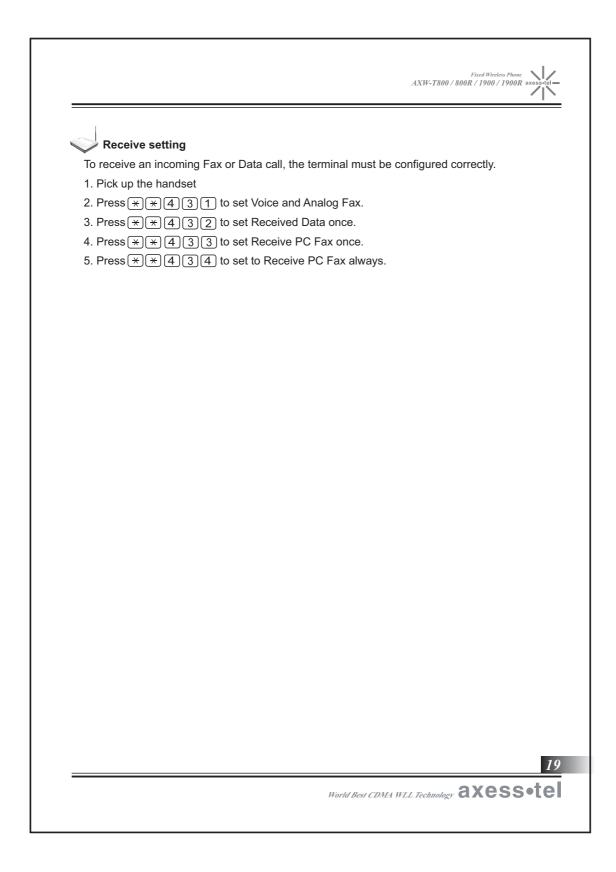
3. Press \times \times 412 to select USB cable.

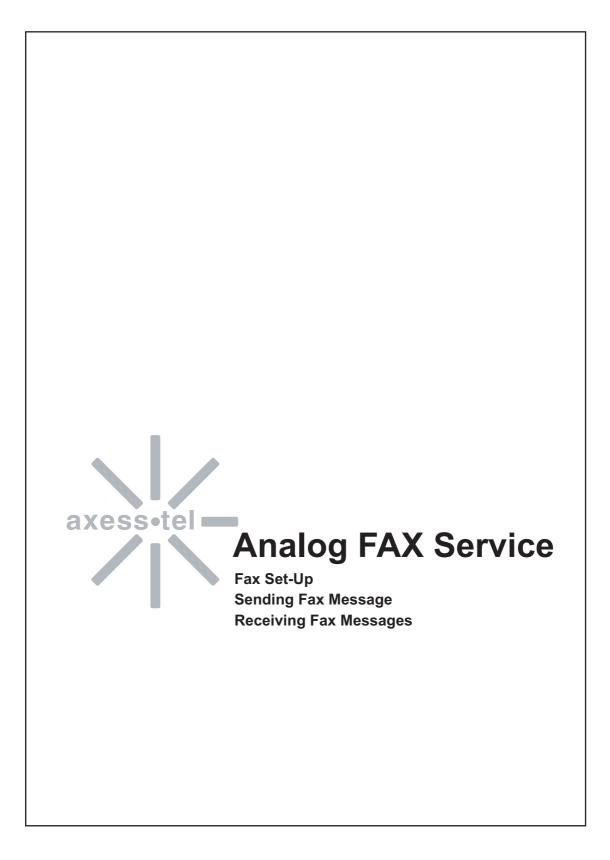
Data Port Speed

There are three speed options. Use appropriate speed setting for you use.

- 1. Pick up the handset
- 2. Press ****421 for high speed data service. (HDR 115.2Kbps)
- 4. Press * * 4 2 3 for PC FAX. (19.2 Kbps)

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AX SET-UP

* The optional Fax module is required to send or receive fax with analog Fax machine. Connect an analog Fax machine to the terminal with regular RJ-11 phone cord.

S ENDING FAX MESSAGE

You can send and receive fax messages using a fax machine connected to the terminal.

Manual dialing method

- 1. Load documents to the fax machine.
- 2. Pick up the handset or press On-Hook button of the fax machine.
- 3. Press \times \times 9 1 and wait for dial tone.
- 4. Dial destination fax number when you hear dial tone.

 \geqslant Use Pre-digit method to send fax without picking up the handset.

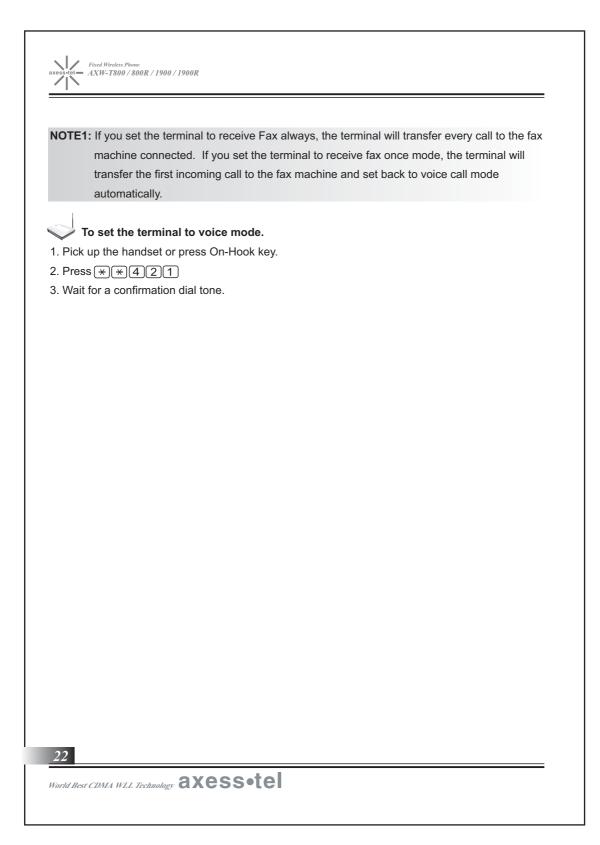
- 1. Load documents to the fax machine.
- 2. Pick up the handset or press On-Hook button of the fax machine.
- 3. Dial \times 99 \times and destination fax number in sequence.
- 4. The terminal makes the call automatically.

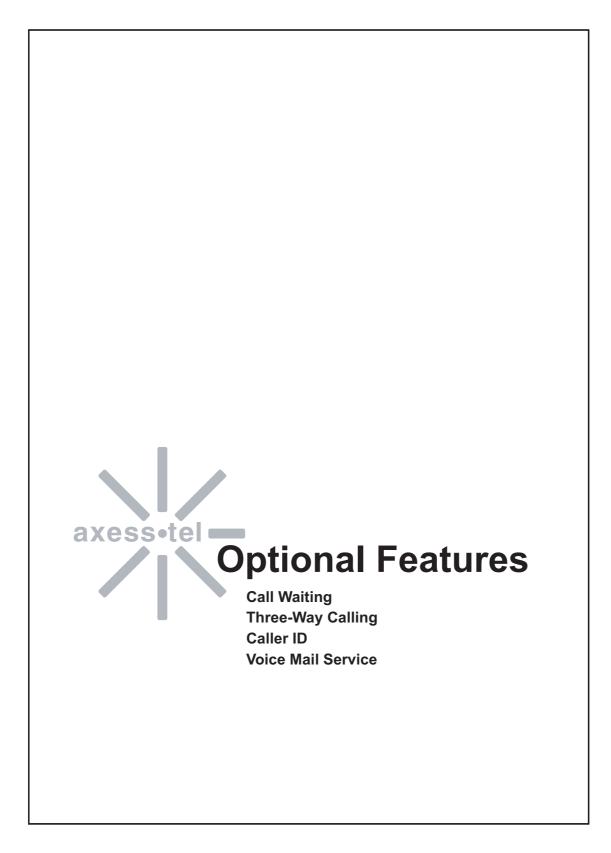
R ECEIVING FAX MESSAGE

You can set the terminal to receive Fax Once or Always.

- 1. Pick up the handset or press On-hook key of the fax machine.
- 2. Press * * 4 2 3 to set Receive PC Fax Once.
- 3. Press (*) (4) (2) (4) to set to Receive PC Fax Always.
- 4. Wait for a confirmation dial tone. The terminal is ready to receive fax messages.

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Call Waiting is a feature, which enables you to be alerted to a second incoming call while you are on the first call of your telephone. Contact your service provider to activate or deactivate Call Waiting.

- 1. You will hear a beep from the earpiece when a second call is incoming.
- 2. Press the hook shortly to answer to the second call.
- 3. Press the hook again to get back to the first call.

HREE-WAY CALLING

Three-Way Calling is a feature that enables you to set up a three-way conversation with two other users. Contact your service provider to activate or deactivate Three-way Calling. 1. Place a call.

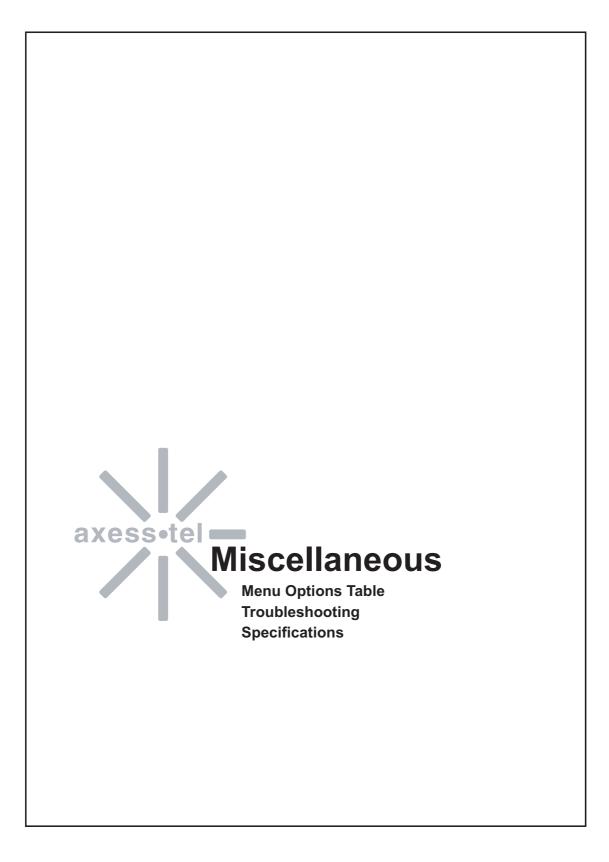
- 2. Press the hook shortly and place another call.
- 3. When the second call is answered, press the hook lightly to start a three-way call.

See Page 26: Setting Caller ID Mode

V OICE MAIL SERVICE

Voice Mail Service is a feature that allows the terminal to receive voice mail and forward it to your telephone when you press a certain sequence of keypad number. Contact your service provider to activate or deactivate Voice Mail Service.

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axess-tel AXW-T800/800R/1900/1900R

M ENU OPTIONS TABLE

MENU				DEMAKE	
Enter the me	enu item by pressing ** and	d the menu option.	EXAMPLE	REMAKE	
1. Sound	1. Voice Volume Control	*Louder #Lower	(*) (louder) (*) (lower) (lower)	a confirmatiom beep will sound 3 seconds	
	2. Setting Alarm	(¥), time(24hr),∰	**12#1136#(11:36 AM) **12#1410#(2:10PM)	Alarm(ringer) rings once each day for 1 min	
	3. Setting 1 Minute Alert	(¥)Off / ∰On	**13*)(off) **13#(on)	Alerts each minute during conversation	
	4. Setting Connection Alert		**14*(off) **14#(on)	Alerts when the call is connection	
	5. Voice privacy Alert	₩Off / #On	**15*(off) **15#(on)	Alerts for voice Privacy	
2. General	1. Caller ID	0. No Caller ID 1. DTMF Standard 2. FSK(Bellcore)	★★210 (no caller id) ★★211 (dtmf) ★★212 (fsk)		
	2. Auto send time	4~9 seconds, 0 OFF	<pre>**2134(4 seconds)</pre> **2130(off)	When off, must press (*) or (#)to make the call	
	3. DTMF Length		(*) (Short) (*) (£) (£) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*		
3. Security	1. Changing Lock Code	Old lock code, new lock code, (#), new lock code again, (#)	To change from "00000" to "123 4"**3100000(confirmation tone)		
	2. Restricting Outgoing Calls	lock code,	If lock code is 00000: **320000(**)(on) **320000(#)(off)		
	3. Restricting International Calls	lock code,	If lock code is 0000: **330000*(on) **330000#(off)		
	4. Restricting Long Distance Calls	lock code,	If lock code is 0000: ★★340000★(on) ★★340000 (off)		
	5. Terminal Reset	lock code, #	If lock code is 0000: ★★350000#	Resets auto send time, alarm lock code, call restrictions (outgoing, int'l, long), caller ID type, voice privacy alert, conr ection alert, and 1 minute ale	
4. Data Service	1. Port Setting	1. Serial 2. USB	★)★411 (Serial) ★)★412 (USB)		
	2. Speed Setting	1. HDR (115.2K) 2. Async (19.2K) 3. PC FAX (19.2K)	★★421 (115.2K) ★★422 (19.2Kpbs async data) ★★423 (19.2Kpbs pc fax)		
	3. Receive Mode	1. Voice only 2. Data one time 3. Fax one time 4. Fax always	****431 *****432 ****433 ****4334		

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Troubleshoot the conventional wired telephone

In the event you are unable to place or receive telephone calls, first be sure that the connection wire is properly connected to the RJ-11 phone port on the terminal and to the RJ-11 port of the telephone. If unsure whether or not the telephone is operational, connect a telephone, which is known to be operational to the terminal. If service is available with the operational telephone, replace or repair your telephone equipment. If service is still not available, then follow instructions under "Troubleshoot the Fixed Wireless Terminal".

Troubleshoot the Fixed Wireless Terminal

Check for the appropriate power indication on the LED. If no power, check the adaptor (or External Power Supply) connection between the electrical outlet and the terminal. Check for the appropriate Received Signal Strength Indication (RSSI), Power, and Message Indication through the designated LED, respectively.

S PECIFICATIONS

Frequency Range	ACW-T800	TX: 824~849MHz RX: 869~894MHz		
	ACW-T1900	TX: 1850~1910 MHz RX: 1930~1990 MHz		
Channel Bandwidth		CDMA 1.25 MHz		
Multi Connection		4 REN		
RJ-11 Phone/Analog Fax Port		2		
Power Supply (Adapter)		Input: AC 110~240V 50~60Hz		
		Output: DC 15V 1A		
Temperature of operation		-20 ~ +50 degrees C		
Relative humidity		5% ~ 95%		
Temperature of storage		-25 ~ +75 degrees C		
Dimension		200x170x48.5 (mm)		
Weight (without internal battery)		560g		

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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 Terminal 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 0.823 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: PH7AXWT800.

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.