



PBX GSM Interface

WIRECELL[®]

Fixed Wireless GSM Terminal

Operation Manual





Features

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- Based on GSM, dual band 900 MHz / 1800 MHz.
- System with Power on Self Test controlled by microprocessor circuit.
- Supports external DISPLAY.
- Prompting charge function.
- Call metering compatible with polarity reversal signal and 16 KHz signal.
- 200 pcs incoming call.
- 1000 pcs outgoing calls.
- LCD
- Supports Caller ID.
- Supports DTMF dialing.
- External antenna to receive better signal.
- Adjustable receiving volume in the handset.
- Supports emergency call 112 without SIM card.
- Supports 3-way conference call.
- Supports Call waiting/diverting (depending on the network support).
- Call restrict.
- Compatible with external back-up battery.

Note : *The further changes in future will not notice specially, please refer to the material object*



Precautions

1. Avoid installing the equipment in a dusty location, or near the source of gas or fire.
2. Do not use the equipment near water source, for example, a bathtub, sink, wet basement or swimming pool etc.
3. Please turn off all the power sources before taking out the SIM card.
4. The antenna Installation:
 - a) To get better signal, please do not place the external antenna on a big metal plate.
 - b) To avoid the damage due to lightening, do not keep the external antenna at a high place or house top at outdoors.
5. External battery DC12V-18V 4.5 Ah to 7.0 Ah is highly recommended to use with the FCT for back up, power supply 100 V – 300 V. Please use only the approved power supply and battery, or else the adaptor and the FCT may get damaged. We will not guarantee to keep the FCT and the adaptor in good repair. External display's power supply is DC 12V-18V.
6. When using the accumulator to supply the power, if all the indicators go out, it means the battery voltage is low, please get the accumulator charged immediately.
7. Do not use more force while connecting the antenna connector to FCT. It will break the antenna connection to FCT.
8. The indicator of the adaptor has two phenomena:
 - a) Green indicator : as long as plugging the adaptor into the commercial electricity, the green indicator lights up.
 - b) Red indicator : while charging after plugging the accumulator, the red indicator lights up; after accomplishing the charge, the red indicator changes to green.



Installation

The GSM Fixed Wireless Terminal should be placed in a cool dry place with good ventilation. Avoid placing FCT in the direct sunlight or wet area.

How to install the GSM Fixed Wireless Cellular Terminal :

1. Install the external antenna properly.
2. Open the SIM card case cover, insert the SIM card properly, then replace the cover.
3. Connect the adapter to FCT at the back of FCT and other end to external battery for charging.
4. Use other two line cords to connect the billing machine to the B-PHONE and B-LINE jack at the back of FCT.
5. Use one line cord to connect the telephone to the PHONE jack of the FCT.
6. If you need to use external display, please use one line cord to connect display to the display jack of FCT.
7. Switch on the POWER witch of GSM FCT.
8. GSM signal will be available. Now the FCT is ready for use.

Note : The further changes in future will not notice specially, please refer to the material object



Making Calls

1. Pick up the handset or press Hands Free (HF) button (if it is available).
2. Dial the desired number after hearing the dialing tone.
3. After finishing the conversation, place the handset on the cradle or press HF button (if it is available) to disconnects
4. Under FCT billing mode, you will hear “di..du..di..du” indicating sound to prompt user to charge after one calling. This sound will last for 30 seconds, user can dial again during this period, also PCO can do fast exit with pressing OK button or OFF-HOOK.
5. In standby state, external display show the date and time; during conversation, external display show the talking time, pulse and charge.

Answering Calls

1. When the phone rings, pick up the handset or press Hands Free (HF) button (if it is available) to answer the call.
2. After finishing the conversation, place the handset on the cradle or press HF button (if it is available) to disconnects.



Caller ID Service

The telephone connected to FCT should be compatible with a DTMF Caller ID service, and you have subscribed for this service in the local telecom company, the calling information will be displayed on the LCD screen of the phone.

Call Log

1. In standby state, the unchecked missed calls will be shown on LCD, please press OK button to check and ESC to exit.
2. In standby state, press ▲/IN button to check the incoming call log, then press ▲/IN or ▼/OUT button to check received and missed calls.
3. In standby state, press ▼/OUT button to check the outgoing call log, then press ▲/IN or ▼/OUT button to check all the outgoing call log.
4. In the outgoing and incoming calls, press ▲/IN or ▼/OUT button to select a call, then press OK button to display “del or not”, then press OK button again to delete the call, or press ESC button to exit.
5. In the outgoing call log, press OK button to shift the talking time and phone number, then press ESC button to exit.
6. In the call log, pick up and hang up the handset or press ESC button to exit.



Local Commands

<i>3-Way Conference Call Command</i>	<i>Description</i>
* 0 * #	Reject second call during conversation.
* 1 * #	Receive second call during conversation.
* 2 * #	During conversation receive second call, then get into 3-way conference call.
* 3 * #	Directly get into 3-way conference call.
* 4 * #	Exit from conference call.
* 5 * #	Call hold.
* 6 * * Number #	Dial second call (1-32) during conversation.
* 7 * #	Call transfer.
# # #	Clear up operating by mistake.

Note: All the above mentioned functions are network dependent.



Local Commands-A

<i>Description</i>	<i>Local Commands</i>		<i>Default Value</i>
	<i>Command</i>	<i>Remarks</i>	
Change user password	**#5*1688#	#96#password##	Password (8-12 digits) Password must begin with *#, end with #, as in the format *#X#, and X is a single digit numbers (0-9) or *.
Direct command for local area code prefix		*#77#X#	X: 1-9 digits. null
Direct command for RX volume		*#49#X#	X: 1-4 level. 3 level
Direct command 95-0 off		*#950#	0
Direct command 95-0 on		*#951#	
No. with function from 95 to 0	password	#17# X # No. ##, #17## delete all	X: 1 to add codes. X: 0 to delete codes. No. (1-32 digits) up to 50 groups No. X: 1, on; X: 0, off. null
Local international area code setting	password	#26# Code ##, #26## Code is null	Code (1-9 digit). 0091



Local Commands-B

<i>Description</i>	<i>Local Commands</i>		<i>Default Value</i>
	<i>Command</i>	<i>Remarks</i>	
Set date & time	**5*1688#	# 37 # day # month # year # hour # minute ##	Year is 4 digits at most. Month, Day, Hour, & Minutes are 2 digits at most.
Buzzer on / off option	password	#50#X##	X: 1, on ; X: 0, off. Call ending tone, Prompt charge tone, No card/bad card tone, Network lock/card lock/sector lock/GID lock tone, when on ring, when off does not ring
Caller ID on/off	password	#52#X##	X: 1, on ; X: 0, off.
Call log month count		*#12345#	
Call log day count		*#54321#	
Delete all incoming calls		*#00000#	
Delete all outgoing calls		*#11111#	



Local Commands-C

<i>Description</i>	<i>Local Commands</i>		<i>Default Value</i>	
	<i>Command</i>	<i>Remarks</i>		
Not permitted call in (not permitted to receive call)	**5*1688#	#31#X# No. ##, #31## delete all	1 add / 0 del, No. (1-32 digits) up to 50 groups No. X: 1, on ; X: 0, off.	null
Prompt tone volume when off hook	password	#46# Vol ##	Volume (1-3).	1
Ringer tone volume	password	#47# Vol ##	Volume (1-3).	3
Call waiting on/off	password	#90#X ##	X: 1, on ; X: 0, off.	0
Call Restriction	password	#28# No. ##	<i>No. as follow:</i> 0 : Permit call. 11: Restrict all out. 21: Restrict ISD. 31: Restrict STD. 41: Restrict all incoming calls. 10: Permit all out. 20: Permit ISD. 30: Permit STD. 40: Permit all incoming calls.	0
3-way conference on/off	password	#11#X ##	X: 1, on ; X: 0, off.	1

Note : After entering each command you will hear a tone, means success, then proceed to next. Once you finished entering the commands you want to activate, please hang up the phone to complete the operation.



Using with Billing Machine

1. Uses the following local command for using the FCT without billing Machine, (e.g., When used with PABX) command:
enter `*#5*1688#` then enter `#43#0##`.
2. Use the following local command for using the FCT with billing Machine, (e.g., When used with PCO) command:
enter `*#5*1688#` then enter `#43#1##`.

Billing Mode Option

There are three billing mode which you can select, pick up the handset and enter `*#5*1688#`, after hearing a “du” sound, input `#41#X##` (X=0, not billing; X=1, the FCT billing; X=2, 16K billing, the default is 1), followed another sound if you set successfully.

1. When you select the FCT billing, the FCT can work without billing machine.
2. When you select 16K billing, the FCT can work only with billing machine.



Technical Specifications

Working Frequency	:	900MHz. / 1800MHz.
Environment Temperature	:	-10 °C to +45 °C.
Relative Humidity	:	10% to 95%.
Atmospheric Pressure	:	86 to 106 kpa.
Environment Yawp	:	up to 60dB (A).