



**FWT 335  
GSM Wireless Receiver**

**USER MANUAL**

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## **Introduction**

Welcome to the GSM Wireless Receiver Platform. This unique wireless terminal will allow you to replace your land line, add an additional line to your home or office, or to install phone service in areas where regular phone service is not available. All that is required is a power outlet and GSM cellular service.

This wireless, cellular terminal will power two standard telephone sets and will allow you to make and receive cellular calls directly from those telephone sets. You will have top quality voice and audio transmission while taking full advantage of your cellular service.

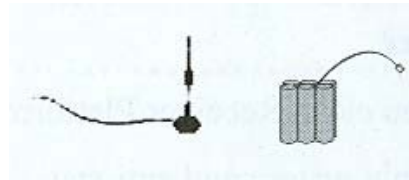
Functions available with cellular service will be available with this unit. However, your standard telephone set must also support those functions.

## **Packing List**

After you open the box, please check all components as shown below. If anything is missing or damaged, please contact your dealer immediately.



Wireless Terminal



Antenna & Battery



Power Adapter



User Manual

## **Installation**

**CAUTION...**Be certain that the power is not turned on while assembling the unit.



### **Antenna...**

Screw the 12" 'leptospira' antenna into the antenna base (includes cable). Install the mobile antenna and cable by connecting the cable end to the SMA connector on the back of the FWT.

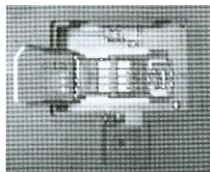
**NOTE...**any quality 50 ohm antenna system may be used as an external antenna. If a larger, outdoor antenna is used we strongly recommend the use of a lightening arrester.



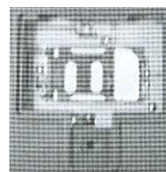
### **Power...**

Insert the power adapter plug into the connector on the back of the FWT terminal (**DO NOT** connect to a power source at this time)

### **SIM Card Installation...**



SIM Card Slot Open



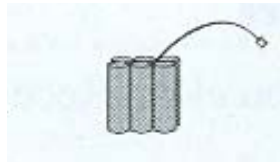
SIM Card Slot Closed

**CAUTION...**Never insert or remove the SIM card while the power is connected. Always turn the terminal off and unplug the adapter from the power source.

Open the SIM card cavity by removing the cover on the bottom of the FWT case. This is the small door on the right side of the terminal (with terminal back facing you) showing the image of a SIM card. To open the cover, carefully push the small tab away from you then lift the tab to remove the cover. The SIM card slot is on the green circuit board below. Move the cardholder to the left and lift. The SIM card should be inserted with the gold pattern facing right and the small notch in the upper right corner. Carefully close the cardholder and slide the holder to the right to lock it into place.

Replace the SIM card cover.

**SIM Card Care...** The SIM Card may be inserted/removed from its holder only after power has been disconnected. Avoid touching the gold pattern and keep away from any source of magnetism. Do not let it come in contact with metal. Damaged SIM cards must be replaced before starting up the GSM terminal.



Rechargeable Battery Pack

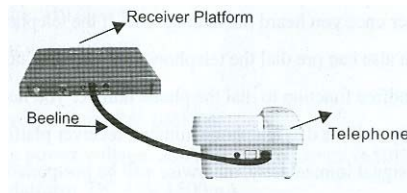
### **Battery**

Open the battery cover on the bottom of the terminal. This is the large cover on the left side of the terminal (with the terminal back facing you). Carefully push the tab away from you and lift the cover. Connect/disconnect the small cable to the white connector inside the battery well. If inserting the battery pack, be certain that the cable is placed into the well so that it will not interfere with the replacement of the battery cover.

Replace the cover by inserting the lower edge of the cover into place then lower the upper portion of the cover until it is secure.

Your battery pack will recharge while the FWT is connected to a power source. During periods of a power outage, the battery pack will allow a standby time of up to four hours, and a talk time of up to 1 hour... Actual time may vary and will depend upon the amount of charge in the battery, the age of the battery, personal calling habits, and the strength of your signal.

**Caution...** Always be certain that the power switch is OFF and that the power adapter is removed from the power source when connecting/disconnecting the battery.



Standard Telephone Set

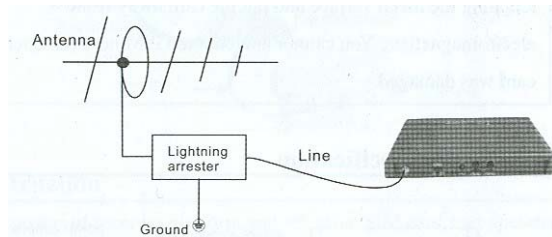
### **Telephone Installation**

Any standard, wired or cordless telephone set will work with this FWT 335 wireless cellular terminal. Simply connect the base of the telephone to one of the two 'RJ11' jacks on the back of the terminal using a standard, 4-wire telephone cord. A second extension may be connected to the remaining RJ11 jack if desired.

### **Connect the Power**

Once all connections have been made and the SIM card and battery pack have been installed, you may now power the terminal by plugging the power adapter into a 115v/60amp power source. Slide the Power Switch (terminal back) to the ON position.

**Caution** Use only the power adapter received with this terminal. Use of a different adapter may void the warranty.



External Antenna Shown with Optional Lightning Arrester

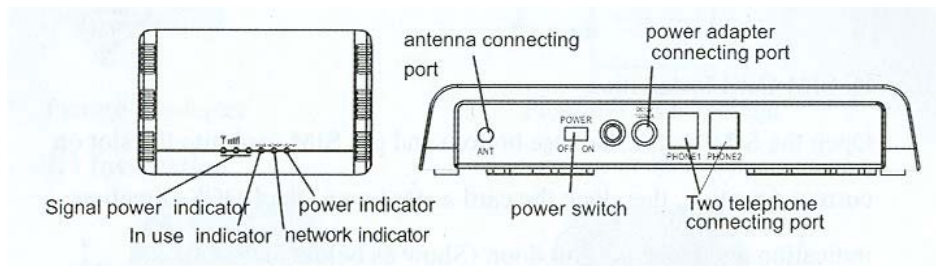
## Signal Enhancement

Cellular signal is difficult to predict. Terrain and foliage between your installation and the cell tower will cause the cell signal to fluctuate, diminish, or disappear in certain locations. You will want to find the best signal (sweet spot) for your terminal and make your installation at that location.

If the cellular signal in your area is less than ample, you may wish to install your antenna out of doors. The cable supplied with the enclosed antenna may be all you need to place the provided antenna in a better location. Or, you may need to install a larger, external antenna with a coaxial cable lead from your roof to the terminal.

Signal amplifiers are sometimes necessary to 'enhance' (boost) the signal received at the exterior antenna. By installing an amplifier between the exterior antenna and the terminal, you can increase your cell signal by as much as 25 dBi (approximately 'two bars' on a cell phone signal meter). This can make the difference between a good phone call and a dropped call. Actual results experienced depend upon the quality and strength received at the exterior antenna and the distance between the antenna and the amplifier.

For more information please contact OmniCell Communication [info@OmniCellCommunications.com](mailto:info@OmniCellCommunications.com).



Detail of Indicator Lights and Connections

## Equipment Specifications

Use the above reference when connecting cables to the terminal, locating the power switch, or viewing the indicator lights on the top of the unit.

Operating Conditions...  
 Temperature -10 C to +40 C  
 AC power 115V to 120V  
 Terminal...DC 12V/1.5A  
 Use provided adapter only

Parameters...  
 Frequency 850/1900 MHz  
 Max Output 2W Min 1W  
 Channel interval 200 KHz  
 Impedance 50ohm

(5)

## Making a Call

- 1) Lift the telephone receiver or the press button for ‘hands free’ operation (speakerphone)
- 2) Once you hear the dialing tone, dial the desired telephone number
- 3) You may enter ‘#’ once you finish entering the number. This will indicate the end of the phone number and the terminal will transmit immediately.
- 4) If you do not enter ‘#’, the terminal will wait approximately 10 seconds before transmission begins.
- 5) You will hear the phone ring or hear a busy signal once the connection has been made.
- 6) If you have dialed a ‘prohibited number’, you will hear the busy signal (See ‘Settings’)
- 7) If you receive an ‘automated attendant’, you should be able to enter the necessary keys to perform the desired operations. There may be some automated attendants that do not respond to your keystrokes. In this case you must connect to the operator at that location.

### **Receiving a Call**

When the phone (s) ring, take up the receiver, or press the hands free button (speakerphone).

### **Ending a Call**

When the call is ended, place the receiver back into the cradle or press the hands free key once more.

### **Trouble Shooting**

#### **Malfunction**

#### **Reason/Solution**

Power Light is not ON	Check power source and battery for proper connection Be sure that the ON/OFF slide switch is in ON position
Always hear ‘busy’ signal	SIM Card is inserted improperly or the slot is not closed Terminal has not connected with the network
Cannot connect with network	Signal is too weak SIM card is not inserted SIM card is damaged
Signal Indicator is ‘low’	Weak signal...move antenna or change locations Check antenna connection at the terminal Check installation of antenna into its base
No Dialing Tone	Standard Telephone not connected properly. Re-Connect
Hear Noise and Echo during a call	Weak Cellular Signal or location of terminal installation. Echo is sometimes normal with cellular calls. Hang up and re-dial. If condition persists, move terminal location or consult with the service provider.
Dropped Call	Hang up and re-dial

## Functions and Settings

Each function supported by this terminal is confirmed or changed by using the connected, standard telephone. The GSM wireless terminal 'signal strength' lights are used to prompt whether the setting is correct. If correct, all three LED lights will flash slowly (500 ms on/500 ms off) and will be accompanied with the dialing tone.

If the setting is wrong, you must hang up then re-try.

### Set Operating Band

Format: 0\*#1234\*14\*M\*#

M - 1 = 900/1800 MHz (European Standard)

2 = 850/1900 MHz (US Standard)

### Send Caller ID (CID)

Format: 0\*#1234\*15\*M\*#

M - 0 = Set by network

1 = Disable

2 = Enable

### Phone-lock Setting

Format: 0\*#1234\*12\*1\*#

### Cancel Phone-lock Setting

Format: 0\*#1234\*12\*#

### Forbidden Numbers

Format: 0\*#1234\*13\*X\*Y\*#

X = Group Setting (0 thru 9...total 10 groups)

Y = Forbidden Area Code (or other number) 1 to 5 digits

Example: 0\*#1234\*13\*1\*011\*#

Means that the first group of numbers that cannot be dialed is international calls

### Cancel Single group of Forbidden Numbers

Format: 0\*#1234\*13\*X\*#

Example: 0\*#1234\*13\*1\*#

Means that the first group of forbidden numbers have been cancelled

### Cancel all Forbidden Numbers

Format: 0\*#1234\*13\*#

### Resume Factory Settings

Format: 0\*#1234\*3\*#



**Check Operating Band**

Format: 0\*#05#

Display: 005X

X = 8501900 means the equipment is set to the US Standard of 850/1900 MHz

9001800 means the equipment is set to the European Standard of 900/1800 MHz

**Check Caller ID**

Format: 0\*#04\*

Display: 004X

X = 0...set by network

1...Disabled

2...Enabled

**Check Phone Lock Setting**

Format: 0\*#07#

Display: 007XY

X - 0 = not locked

1 = locked

**Check Forbidden Number Setting**

Format: 0\*#00\*X\*#

Display: 01XY

X = Group (0 – 9)

Y = Forbidden Number (1 – 5 digits)

If no display, it means that there is no forbidden number for this group

Example: 017123 means the 7<sup>th</sup> group forbidden number is 123

## Maintenance

- 1) Keep the terminal dry. If liquid is spilled on the unit, dry it with a soft cloth immediately. The case is not moisture-proof and the circuit boards may be ruined.
- 2) Do not expose the terminal to sunlight or extreme temperatures
- 3) Temperature extremes will shorten the life of components such as the battery and circuit boards
- 4) Keep all surfaces clean and free from dirt and grease
- 5) Do not drop or install in locations that may cause harm to the terminal
- 6) When cleaning, use a soft, damp cloth...Do Not use chemicals, Do Not put water directly onto terminal.
- 7) A dry cloth will build up static electricity and possible ruin the circuitry.
- 8) This unit is designed for indoor use only.

## Warranty

Factory warranty is for one year from date of purchase. Unit must be returned to the manufacturer for service. All returns must be approved prior to shipping the unit (freight paid).

Warranty is void in cases of neglect, misuse and improper care. Warranty is void if this unit is connected to broken components or components not designed for use with wireless communication devices.

For service and technical support, please contact the following:

[info@maxcomm.com.tw](mailto:info@maxcomm.com.tw)

OR

MSN: maxcomm2@msn.com



**OmniCell Communications**  
*A world Apart*

PO Box 670411  
404.218.9972

[www.OmniCellCommunications.com](http://www.OmniCellCommunications.com)

Marietta GA 30066

[info@OmniCellcommunications.com](mailto:info@OmniCellcommunications.com)