

## Product Introduction

Congratulations on purchasing the Vortex SkyBell Home Phone. Before using this terminal, please read this user guide carefully.

This is our new design, which uses GSM networks to operate. You can dial local, domestic and international calls with this Terminal, connecting with a common wired desktop phone and a standard SIM card. It is widely used in these areas:

Homes

Remote country

Mountains

Public telephone shops

Offices

Mobile places such as ships, trains, and long-distance buses

Our Wireless Terminal also has these characteristics as below:

Easy to install

Easy to operate

Powerful capacity to receive signal

Clear voice quality

Long life

Steady performance

## Key Technical Specifications

1. Network support: GSM 850/900/1800/1900MHz
2. Frequency range:
  - TX Frequency Range:
    - 880~915MHz, 1710~1785MHz
    - 824~849MHz, 1850~1910MHz
  - RX Frequency Range:
    - 925~960MHz, 1805~1880MHz
    - 869~894MHz, 1930~1990MHz
3. Voltage: DC3.7V battery pack or DC5V from adapter
4. Power consumption: Static  $\leq 25\text{MA}$ , In Use  $\leq 500\text{MA}$
5. Peak power consumption: 0.25W/0.5W
6. Receive sensitivity: -104dB
7. Antenna increment: All directions: 2dB                      Certain/Selection: 2dB

## Key functions

1. Can dial local calls, mobile calls, international calls and special free calls;
2. Password authority administrable;
3. volume adjustable;
4. Time and Date configurable;
5. Supports USB modem function, support: Windows XP; Windows Vista; Windows 7; Windows 8; Windows 10;

## Cautions and Storage

### Cautions

1. This terminal should not be used at garage, oil storage, and chemical plant or near any inflammable or explosive substance.
2. This terminal should be avoided in the hospital. It will interfere with medical electronic equipment such as pacemaker and audiphones.
3. If it is found that the terminal cannot successfully login to the network, please check whether the SIM card or antenna is properly installed.
4. Do not touch the antenna when the Terminal is being used to make or receive calls, otherwise the terminal will be damaged. This kind of damage is beyond the range of warranty.
5. When the terminal is being used, it should be placed where signal is strong enough. To ensure good voice quality, the terminal should be far from other electronic equipment.
6. Do not use chemical substance to clean the terminal, instead use a dry soft cloth to clean it.
7. Don't disassemble the terminal by yourself. If there is any problem, please contact the authorized personnel.

### Storage:

1. The terminal that is packed or not could piled up no more than 10 layers.
2. The terminal should be stored in a ventilated and dry place.
3. Do not knock the terminal to avoid breaking the case.



This user guide provides information on the use and operation of your FWT. 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 device. Check the contents of the box as per the packing list and report any discrepancies immediately to the store from where the device has been purchased.

#### Do's & Don'ts

- Do not clean the FWT while in operation. Before attempting to clean the FWT, turn the FWT off, disconnect the external power adapter. 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 FWT 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. Only use the antenna approved by the manufacturer. Unapproved antenna may impair the call quality as well as cause damage to the FWT.
- 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 FWT body and internal circuits.
- Do not paint.
- During lightning do not touch power plug or FWT line. This can cause Electric shock, even death. Do not touch the antenna.
- Your FWT works with 100-240V AC. Check the voltage before connecting.
- Do not plug many power cords into the outlet.
- 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.

- If the FWT is not working for any reason, do not attempt to repair it. The FWT should be serviced by qualified service personnel only.
- Place the FWT and the power supply in a properly ventilated place.
- Do not place the FWT 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 FWT.
- Place the FWT in a dry place and do not expose to moisture.
- Place the FWT 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 use equipment which is sensitive to Radio Frequencies. Please ensure that your FWT is turned “OFF” while near such facilities.
- Do not use the FWT in designated “No Fixed FWT Use” area.

# Connect the terminal

## Connecting Your Service Provider

To use the networks services available in your terminal, you will need to sign up with a wireless provider and purchase a SIM (Subscriber Identity Module) Card or purchase a prepaid SIM card. In many cases, the wireless provider will make available descriptions of its services and instructions for using its features. Wireless providers may differ in their support of features. Before you sign up, make sure the wireless provider supports the features that you need.

## Installing the Antenna

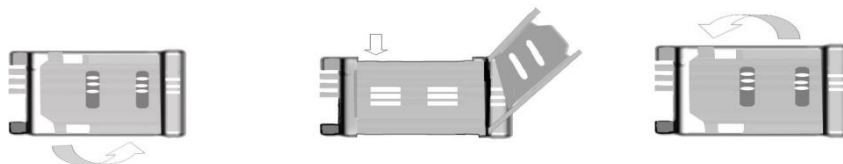
Choosing a proper place for the terminal and antenna is the important first step for installation. You can use your mobile phone to search for the place where the strongest signal is. Then put the terminal here.

Screw the antenna into the port in the back of the terminal.

Please do not place the antenna and the terminal too close to a TV set, computer, or radiogram. It will disturb the signal of the terminal.

## Inserting a SIM Card

Make sure the terminal is switched off and the AC adapter is unplugged: insert the SIM card only when the terminal is switched off and the AC adapter is unplugged. Follow the instructions below to insert a SIM Card into the terminal.



- 1). Screw off the screw of SIM card case, and open the cover.
- 2). Slide back the SIM card door and lift it up.
- 3). Slide the SIM card into the SIM door making sure that the clipped corner of the SIM card lines up with the clipped corner of the SIM holder.
- 4). Close the SIM card door and slide it to lock the SIM card in place.
- 5). Replace the cover of SIM card case and fix it with a screw.

## Connecting your terminal with desktop phone

If you want to use the terminal to make calls, you should connect the terminal with a common wired desktop phone.



There are two communication portals at the back of the terminal. You can connect one desktop phone and billing machine (optional) with our terminal. It's very easy to connect the phone and terminal using a common communication cable.

## Operation and Setting

### 1. Power on/off the FWT

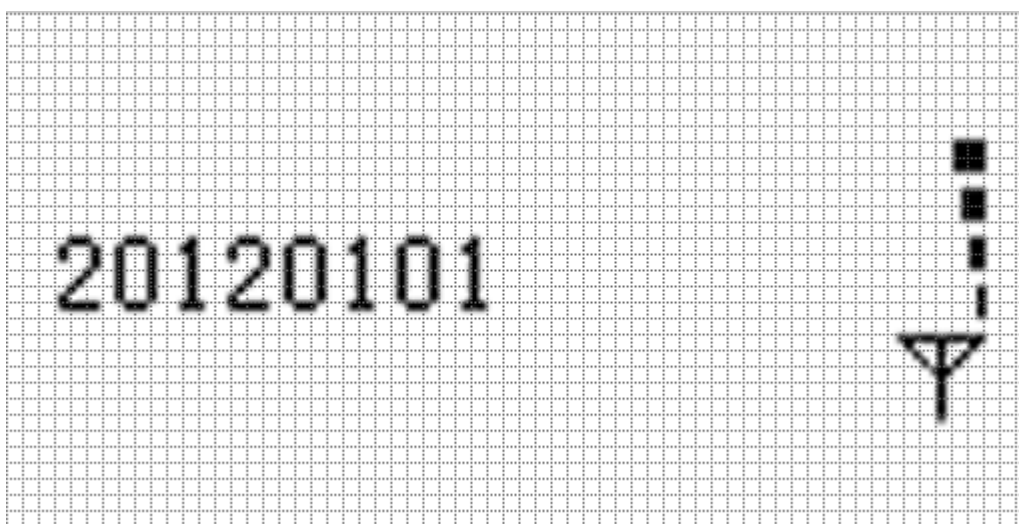
There is a toggle switch on the back of the FWT.

### 2. Date and Time setting and query

#### 2.1 Date Query command: \*\*1010\*1#.

Response Confirmation Tone if successful and device will display Year,Month,Day.

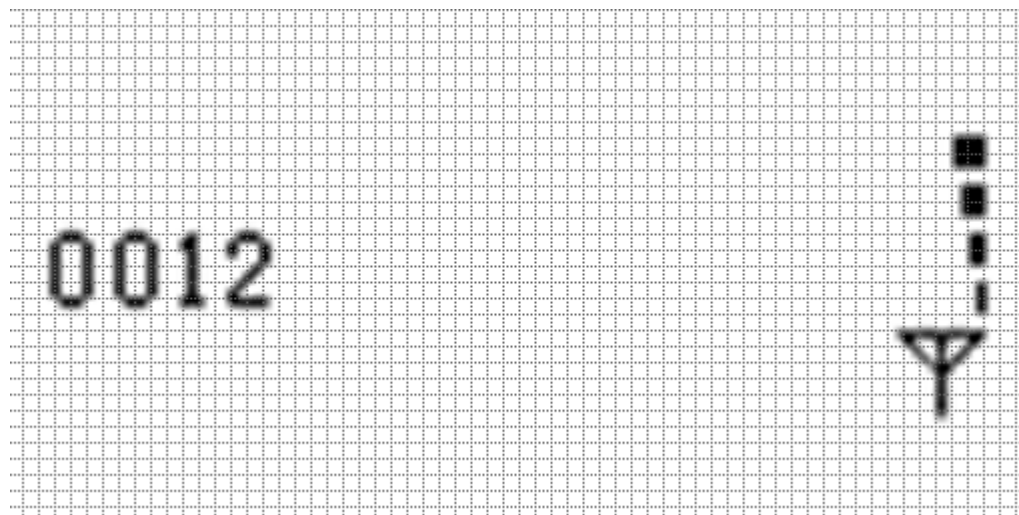
The below photo is a sample:



#### 2.2 Time Query Command: \*\*1010\*2#.

Response Confirmation Tone if successful and device will display hour and minute.

The below photo is a sample response:





### 2.3 Set time command: **\*\*2011\*MMMM\*YYMMDDHHMM#**

Response Confirmation Tone if successful.

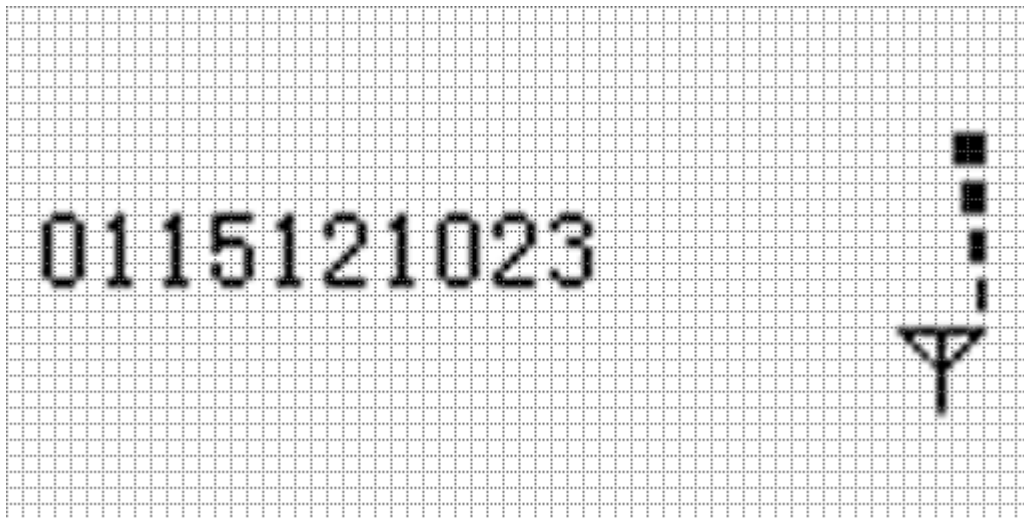
MMMM is password, default password is 0505.

YYMMDDHHMM is year (YY) month (MM) day (DD) hour (HH) minute (MM).

### 2.4 Version Query Command: **\*\*1010\*0#**

Response Confirmation Tone if successful and device will display current Software version number.

The below photo is a sample response:

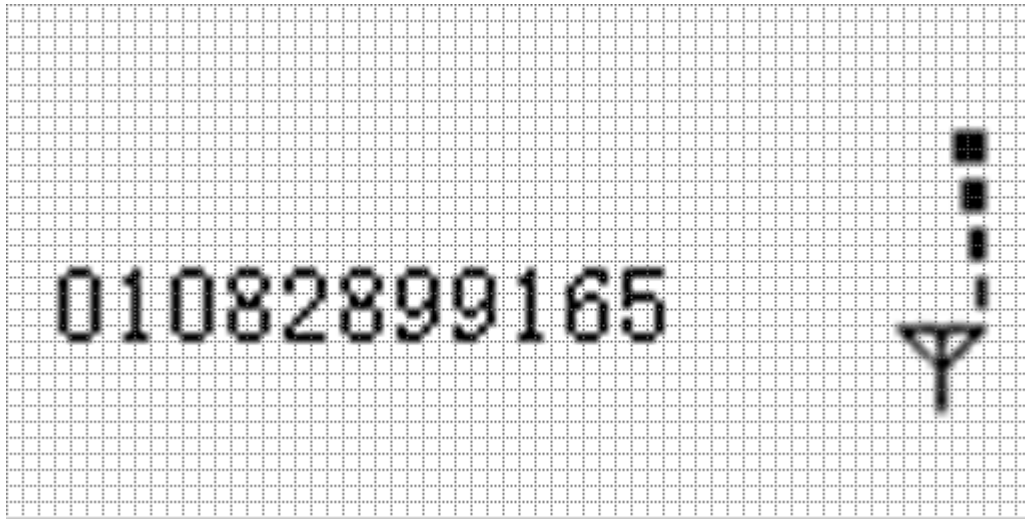


## 1. Dialing:

Pick up the handset and input desired number after hearing dialing tone;

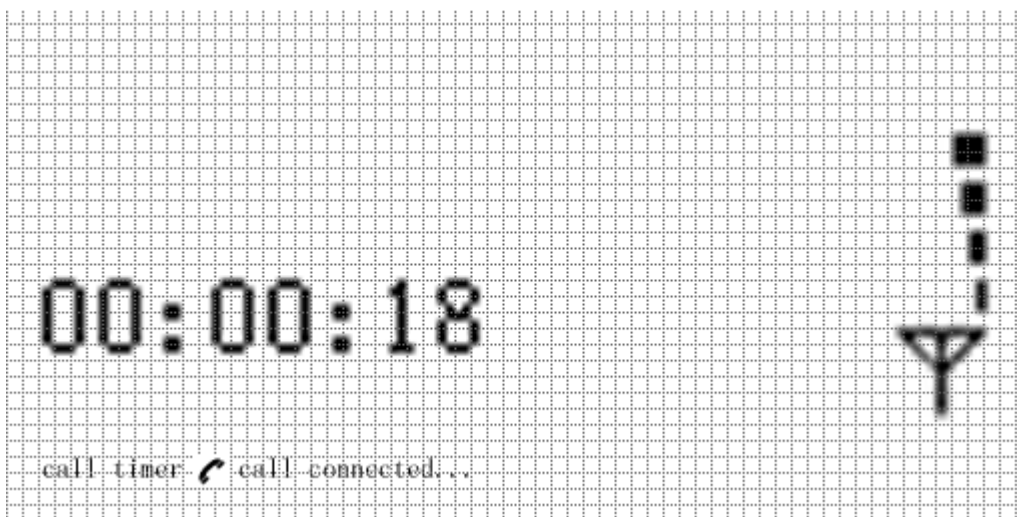
Press “#” key after inputting desired number to dial it immediately, it will be dialed out automatically after 4 seconds if you don’t press “#” key;

The LCD will display below photo:



## 2. Pick up phone call:

When the terminal rings that means there is new call incoming, the LCD will display the above photo, pick up handset to proceed conversation, and then it will show the below photo:



Return handset to the base after conversation completed. The LCD will show the below photo with the total call timer:



#### 4. Special setting commands.

Password Authority Management Function	Change password	**2010*MMMM*N NNN*NNNN#		MMMM is previous password and NNNN is new password, default password is 0505.
	Set Time	**2011*MMMM*Y YMMDDHHMM#	Response Confirmation Tone if success	MMMM is password, YYMMDDHHMM is year (YY) month (MM) day (DD) hour (HH) minute (MM).
	Set command authority	**2012*MMMM#	Response Confirmation Tone if success	The command is used to obtain setting authorization, and it will lose efficacy in another minute.  default password is 0505.
	RESTORE FACTORY SETTINGS	**2030*1234#	Response Confirmation Tone if success	Restore default value.

The following commands need customer to gain some setting permissions. (The red letter ones )				
Function setting	Volume setting	**1020*N#	Response Confirmation Tone if success	N is volume level 1-8 , Default level is level 5.
	Set 100ms flash hang up.	**1050*1#	Response Confirmation Tone if success	Default value is 100ms flash hang up.
	Enable ring back tone	**1060*1#	Response Confirmation Tone if success	Play ring back tone when you call out but did not' getting through.
	Disable ring back tone	**1060*0#	Response Confirmation Tone if success	This option is ON by default.
	Enable Caller ID blocking	**1100*1#	Response Confirmation Tone if success	No all SIM card support this function.
	Disable Caller ID blocking	**1100*0#	Response Confirmation Tone if success	Default value
Call in and call out	Display numbers in DTMF mode	**1110*0#	Response Confirmation Tone if success	Show as DTMF by default.
	Query number display mode	**1110*2#	Response Confirmation Tone if success and show up as 10X	Value 0 means DTMF mode.
	Set numbers dial out delayed	**1120*T#	Response Confirmation Tone if success	T is delayed time. Its value is 1~9 second. The minimum time is 1 second, default value is 5 second.
	Query delay seconds and dial out after pressing call number	**1120*0#	Response Confirmation Tone if success and show up as 2XX	XX means delayed time duration. Unit: second, e.g. 03 means 3 seconds.

	Disable international phone call out	**1140*1#	Response Confirmation Tone if success	To restrict overseas call. Overseas call are enabled by default.
	Enable international phone call out	**1140*0#	Response Confirmation Tone if success	Enable international phone call out
	Query international phone call restriction	**1140*2#	Response Confirmation Tone if success and show up as 40X	If value of X is 1, it means there is international call restriction;  If value of X is 0, it means there is no international call restriction.
	Restrict all incoming calls	**1141*1#	Response Confirmation Tone if success	All incoming calls are barred. There is no restriction by default.
	Cancel all incoming call restriction	**1141*0#	Response Confirmation Tone if success	No incoming call is barred.
Call setup	Set call waiting	**1200*1#	Response Confirmation Tone if success	
	Turn off call waiting	**1200*0#	Response Confirmation Tone if success	
	Set unconditional transfer	**1211*MMM#	Response Confirmation Tone if success	MMM is the transfer of the phone number
	Set busy transfer	**1221*MMM#	Response Confirmation Tone if success	MMM is the transfer of the phone number
	setup unable to get through and	**1231*MMM#	Response Confirmation Tone if	MMM is the transfer of the phone number

	transfer		success	
	Setup No-answer diversion	**1241*MMM#	Response Confirmation Tone if success	MMM is the transfer of the phone number No response 30s after transfer
	Cancel all transfer	**1250*1#	Response Confirmation Tone if success	
	Set the number of time delay dialed	**1321*MMM#	Response Confirmation Tone if success	Set telephone number 1 MMM is the transfer of the phone number No default value
		**1322*MMM#	Response Confirmation Tone if success	Set telephone number 2 MMM is the transfer of the phone number No default value
		**1323*MMM#	Response Confirmation Tone if success	Set telephone number 3 MMM is the transfer of the phone number No default value
	Set the call time delay	**1310*MM#	Response Confirmation Tone if success	MM is the Set the number of seconds, Up to two digits, The default value of 5 seconds
	Call switching (hold)	**2000*#		
	conference call	**3000*#		
Fixed dialling	Query all incoming	**1141*2#	Response Confirmation Tone if	If value of X is 1, it means there is

function	calls setting		success and show up as 40X	international call restriction;  If value of X is 0, it means there is no international call restriction.
	Set incoming call blacklist	**1142*M*N#	Response Confirmation Tone if success	M is sequence number, value ranges from 0-9, and means there are 10 groups of number.  N means number segment, maximum length is 11 digits.
	Clear all incoming call blacklist	**1142*#	Response Confirmation Tone if success	Clear all incoming call blacklist
	Query incoming call white list	**1143*M*#	Response Confirmation Tone if success and show up as XXNNN	M is sequence number, value ranges from 0-9, means the sequence number in 10 numbers.  It is showed as XXNNN...,  XX is sequence number, ranges from 0-9; its value is the same as that of M.  NNN is restricted number segment.
	Set fixed restricted number	**1144*M*N#	Response Confirmation Tone if success	M is sequence number, ranges from 0-9; it means you can set 10 telephone numbers.  N is number

				segment, the length is no more than 11 digits.
	Clear all fixed restricted numbers	**1144*#	Response Confirmation Tone if success	Clear all fixed restricted numbers
	Inquire fixed restricted number	**1145*M#	Response Confirmation Tone if success and show up as XXNNN...	M is sequence number, ranges from 0-9; it means you are inquiring the Nth phone number in the 10 numbers, and showed as XXNNN..., XX is sequence number, ranges from 0-9; its value is the same as M.  NNN... means restricted number segment.

## Packing List

With the Fixed Wireless Terminal, there are some accessories. When you get the terminal please check them and to see whether you have all of them. Please contact us or call the distributor in your area to receive the absent parts if you find that you lack one of them as below:

Name	Quantity	Remark
DC adapter	1pcs	DC5V/1A
Antenna	1pcs	
User Manual	1pcs	English



**FCC Caution:**

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

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.

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 on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.