GSM Fixed Wireless Terminal

user's manual

The functions are based on the actual products.

Index

1. Functions & Features ----------------------------- 1
2. Terminal Configuration ----------------------------- 2
3. Terminal Installation ----------------------------- 3
   3.1 SIM card installation --------------------- 3
   3.2 Assembly of the terminal ------------------ 4
4. Operation Instructions -------------------------- 5
   4.1 Explanation of indicators' state --------- 5
   4.2 Dial the telephone ----------------------- 6
   4.3 Answer a telephone call ------------------ 6
   4.4 GPRS Function ----------------------------- 6
   4.5 Recharge-in Li-battery --------------------- 8
5. Setting Functions ------------------------------- 8
6. Technique Parameters ---------------------------- 9
7. Troubleshooting ------------------------------- 10
Notes ------------------------------------------- 11
Thanks for using the GSM Fixed Wireless Terminal. Please read this user's manual carefully before use.

Note: Never use the terminal within the following areas:
- Gas stations
- Storage areas with flammable and explosive stuff
- Other environments in which danger maybe caused by wireless communication

1. Functions & Features

GSM fixed wireless terminal is an innovative wireless access terminal. It's ideal to be used in offices and home to reduce comparatively high phone charges. It also can be connected to charge counter as wireless public phone. This device has the following functions:
1). Least Cost Routing (optional)
   One terminal with two numbers (GSM mobile phone number and PSTN telephone number), you can make phone calls via GSM or PSTN network.
2). Provide the reverse polarity signal and can connect with the charge counter for charging
3). Can set up call-out/call-in restriction
4). Caller ID
5). Hands free, radial, sound volume adjustment while calling in/out.
6). Support GPRS (optional)
7). Can connect with PBX
8). Support Li-battery(optional).

2. Terminal Configurations

Standard GSM Fixed Wireless Terminal includes the following accessories:

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSM Fixed Wireless Terminal mainframe</td>
<td>1</td>
</tr>
<tr>
<td>Antenna</td>
<td>1</td>
</tr>
<tr>
<td>SIM cardboard</td>
<td>1</td>
</tr>
</tbody>
</table>

3. Terminal Installation

3.1 SIM card installation:
Caution! Please fix the SIM card before connecting to the power supply!

1). Upend the mainframe so you can see the SIM card pedestal at the bottom.
2). Push SIM card nog gently along with arrowhead to put it up.
3). Insert SIM card into the nog.
4). Press down the nog of SIM card and push it by the backward direction of arrowhead until the SIM nog is fixed on the card pedestal.
5). Use the SIM cardboard to cover pedestal and screw it down.

3.2 Assembly of the terminal:

External ports

1). Make sure the SIM card installed correctly.
2). Screw down the connector of the antenna to the bolt stick on the panel marked with “Antenna” on the back of the device.
3). Plug one connector of standard phone cable to the phone, and plug the other end to the port on the panel marked with “Phone” on the back of the device.
4). Plug PSTN cable to the port on the panel marked with “PSTN” on the back of the device (optional).
5). Make sure the switch of device is off, then plug the input connector of the adaptor to the AC power socket, and the output connector to the “Power” port on the back of the device.
4. Operation Instructions

Turn on the power switch at the back of the terminal after connecting the terminal correctly.

4.1 Explanation of indicators' state:

Indicators

1) The route indicator indicates which network is working - GSM or PSTN. (optional)
This light is on while the device is operated under GSM network, vice versa.
2) The network indicator indicates whether the device get connected with GSM network or not.
The indicator light is on when the device connected with network, and flashes in calling.

4.2 Dial the telephone:

PSTN call out (optional): the network indicator light is off under PSTN network, pick up the handset and dial after hearing the dialing tone. Understand stand-by status, the device is under PSTN network.
GSM call out: the network indicator is off; press “#” after hearing the dialing tone until the network indicator is on, and then dial the number.

4.3 Answer a telephone call:

When the telephone rings on, answer the phone by picking up the handset.

4.4. GPRS function:

Using data cable to connect GSM fixed wireless terminal with PC.

4.4.1. Install modem

Select “standard 19200 bps Modem” for Modem type in Add/Delete hardware guide.

4.4.2. Setting modem

My computer→(click mouse right key)Attribute→Hardware→Equipment Manager→click the “+” before Modem→click the “Attribute” of “Standard 19200 bps Modem”
1). Modem: setting the RS232 port max(M) speed as 115200
2). Advanced options: add instruction:
AT+CGDCONT=1,"IP","CMNET".(please confirm the instruction with local GSM operator), then click the “OK”

4.4.3. Internet link

Internet Explorer→Attribute→Connect→click “ADD” in Connect.→select “dial special Internet”→click “Next”→insert the number: *99***1#→click “Next”
1). Dial number to link, the number is:* 99***1#, the ID and password are empty.

3) The signal intensity indicators display signal intensity.
When the signal is stronger, more indictor lights will be on, vice versa.

4.5. Recharge Li-battery (Optional):

It will automatically charge the Li-battery when the device is connected with AC adaptor and turned on.

Note: When battery is depleted, please shut up the power of device and charge about 5 minutes, then the device can be rebooted. If the device power on immediately while charging, then device may make cracking sound meanwhile indicator light will flicker.

5. Setting Functions

This terminal can set up and adjust the following functions:

1). Set up the local area code in advance. The user can dial the local telephone without dialing the local area code.
2). Can adjust the multi-level sound volume.
3). Can set up the restriction of call-in/call-out.
4). Can set up lock SIM card.

**Caution!** The system setup must be operated by the professional person.

### 6. Technique Parameters

<table>
<thead>
<tr>
<th>Items</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working voltage</td>
<td>AC100~240V, DC12V (Adaptor is reclosed according to local standard voltage. Before use, please make sure the adaptor voltage matches with local voltage)</td>
</tr>
<tr>
<td>Environment</td>
<td>0~45°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>40%~95%</td>
</tr>
<tr>
<td>Atmospheric</td>
<td>85~110Kpa</td>
</tr>
<tr>
<td>Environment</td>
<td>&lt;60dB</td>
</tr>
<tr>
<td>Eradication power</td>
<td>2W</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-104dBm</td>
</tr>
<tr>
<td>Antenna gain</td>
<td>&gt;5dB</td>
</tr>
</tbody>
</table>

### 7. Troubleshooting

<table>
<thead>
<tr>
<th>No.</th>
<th>Problem</th>
<th>Possible Causes</th>
<th>Possible Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not connected to GSM network.</td>
<td>1. SIM card not inserted correctly</td>
<td>1. Install the SIM card again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. SIM card is dirty.</td>
<td>2. Clean the SIM card with a dry cloth.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Antenna is not well connected.</td>
<td>3. Check the antenna connection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Adjust the antenna position.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>No dialing tone is heard after off-hook.</td>
<td>1. The phone cable is not correctly connected.</td>
<td>1. Check the cable connection.</td>
</tr>
<tr>
<td>3</td>
<td>No caller ID.</td>
<td>1. The service is not enabled.</td>
<td>1. Check the service is enabled on the GSM network.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. The phone does not support caller ID.</td>
<td>2. Change for a phone supporting caller ID.</td>
</tr>
</tbody>
</table>

**Notes**

1. Working environment: Choose areas with good signal
2. Requirement for the power supply: The reliable and stable power supplies will guarantee the normal working of GSM terminal.
3. Antenna: Keep the antenna far away from the telephone to reduce the...