

# 8 PORTS GSM FIXED WIRELESS TERMINAL

## User manual

Thanks for choosing our GSM fixed wireless terminal. Please read this user manual before use.

### CAUTION!

Please do not use the terminal at the following areas:

- Areas where the wireless transceiver is prohibited or needed to be closed
- Gas stations
- Storage areas filled with flammable and explosive goods
- Other environments that lead to danger possibly because of wireless communication

## 1. Functions & Features

It is a four-channel GSM fixed wireless access terminal. It is suitable in rural and remote areas where PSTN is not available, and it is also applicable as wireless public phone. It can be connected to payphone, PBX and charge counter to provide more flexible services to users. This product has the following function characteristics

1. Suitable for GSM 900/1800 MHz or 850/1900MHz network (it is based on the actual products).
2. Provide the reverse polarity signal for charging.
3. Can be connected with charging counter, payphone and PBX.
4. Caller ID.
5. Wireless signal indicator available.
6. The power supply of DC12V and AC220V are both OK.
7. Standby battery supported (optional).
8. Ingenious outside, appearance is the standard 1U 19 inches.

## 2. Terminal Configurations

A terminal is matched with the following parts generally:

- GSM fixed wireless access terminal: 1 pc
- Antenna: 8 pcs
- SIM card cover board: 8 pcs
- Telephone line: 8 pcs
- Power resource line: 1 pc
- User manual: 1 set
- Fuse and bolt

## 3. Terminal Installation

### 3.1 SIM card installation:

Caution!

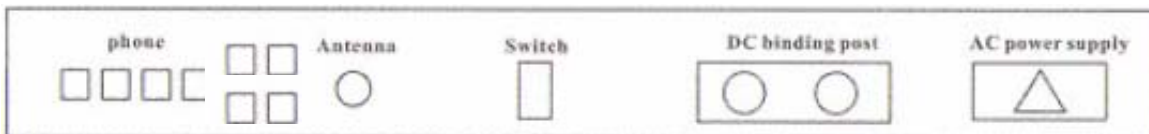
Please fix the SIM card before connecting to the power supply!

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 arrow head 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:

CAUTION!

Make sure that the power switch is turned off.



External port

1. Make sure the SIM card installed correctly.
2. Screw the antenna into the antenna pedestal.
3. Connect the antenna to the "antenna" interface at the back of the terminal.

4. Take out the telephone line, connect one end to the telephone and insert the other end into the "phone" at the back of the terminal. It can connect with 8 telephone sets.
5. Connect one end of the power supply line to AC 220V and the other end to the electric socket.
6. If you need use the spare power supply (prepared by the user), please connect the spare power supply to DC binding post of the terminal. (spare power supply is DC 12V)

### **3.3 Instruction of state indicator light:**

Each port with its indicator lights:



Indicator lights

1. The power indicator is on when the device is power ON; the light is off when the device is power off
2. The network indicator (orange) are on, it means the device get connected with net work, vice versa. Besides it will flash in calling.
3. The signal intensity indicators (green) display the current signal intensity. When the signal is stronger, more indicator lights will be on, vice versa.

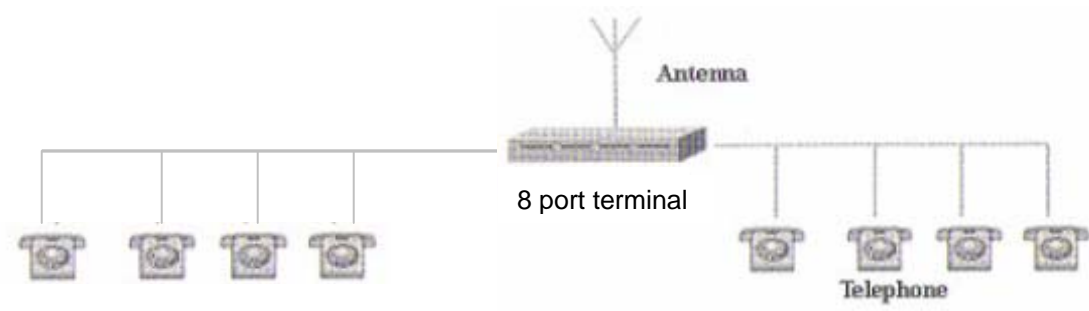
## **4. Application**

### **4.1 Connect with telephone directly to make/answer a call**

Each port can connect with 1 telephone set.

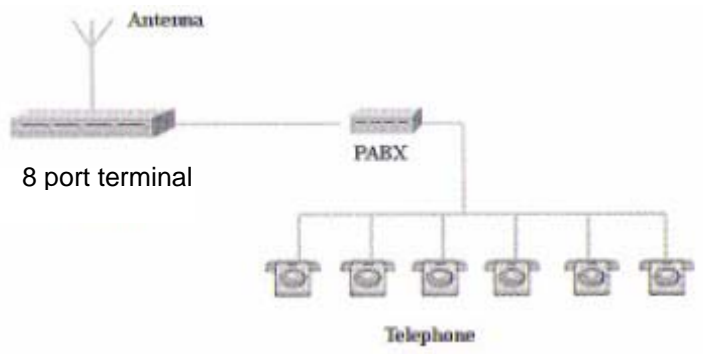
*Dial the telephone:* when the network and signal intensity indicators are on, pick up the handset and dial after hearing the dialing tone.

*Answer a call:* when the telephone rings on, answer the phone by picking up the handset Telephone.

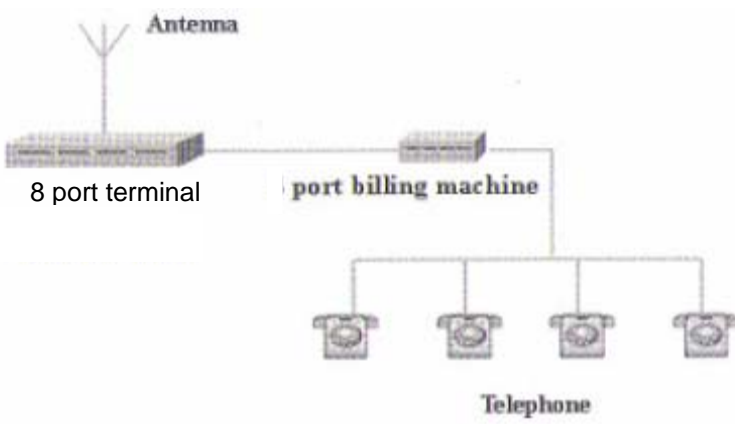


**4.2 Connect with PABX**

Using phone cable to connect "phone" port of GSM terminal with FXO port of PABX.



**4.3 Connect with 8 port billing machine to charge a call**



## 5. Technique parameters

1) Working frequency:

	Transmit band (Tx)	Receive band (Rx)
GSM 850	824 to 849 MHz	869 to 894 MHz
E-GSM 900	880 to 915 MHz	925 to 960 MHz
DCS 1800	1710 to 1785 MHz	1805 to 1880 MHz
PCS 1900	1850 to 1910 MHz	1930 to 1990 MHz

2) User access port:

- Dialing tone frequency: 450Hz continued
- Busy tone frequency: 450Hz 0.35s/O.35s
- Loop current off-hook: 25mA

3) meters:

Items	Parameters
Working voltage	AC220V/ DC12V
Environment temperature	0 ~ 45 °C
Humidity	10% ~ 95%
Air pressure	85 ~ 110Kpa
Environment noise	<50dB
Emission power	2W
Sensitivity	-110dBm
Antenna plus	>5dB

4) Volume: 440(L)\*245(W)\*45(H) mm

5) Weight: 3700g

## 7. Trouble shouting

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

### Notes

1. Working environment: Choose areas with strong 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 communication disturbance.