FWT-188B Quad band
850/900/1800/1900Mhz

USER'S MANUAL

1,Description

Welcome to use GSM Fixed Wireless Terminal FWT-188B that will take you into a new communication world with its perfect function & easy operation.

FWT-188B is a Fixed Wireless Terminal designed to provide better wireless connectivity between POTS (plain old telephone set) and existing GSM 850/1900Mhz (or 900/1800Mhz) network with high sensitivity to receive signal and large transmitting power to expand extensively the effective coverage of GSM service. It can be used not

only in communication for vehicles such as automobiles, trains, floating vehicles, etc., but also in communication for construction sites, isolated islands and rural areas where hardwire-line telephone service is unavailable. So they are widely used in home &office, public phone, rural areas, steamer, railway etc.

FWT-188B fwt---a solution for expanding GSM service coverage!

1.1 Notice

l   When you clean LINKSZ GSM-188B fwt, switch off the machine. And use appreciably watery and anti-static duster cloth. Don't use dry or static duster cloth and detergent etc.

l   Don't expose this device into strong sunlight to avoid being heated.

l   Prevent liquid flow into device inside to avoid being damaged.

l   Don't throw and knock device, otherwise will damage the PCBA.

l   Don't connect with unsuitable equipment.

l   Please use appointed adapter (DC12V/1500mA) and use other power facility will cause danger.

l   This device is an indoor use device; so don't use it in outdoors. And pause using it when lighting storm.

l   This device maybe affects the state of other electronic equipment, for example, the TV, radio, and so on. Please keep away from these equipments when using it. To make the quality best, place this phone away from metal goods and don't use the same electrical outlet with these electrical appliances that have the electromagnet interference.

1.2 Packing list

After you open the inner box, please check all accessories as below pictures presents. If anything miss or damage, please contact with your dealer or shopkeeper.

Picture 1): FWT-188B   Picture 2): antenna

3m cable with magnetic.

Picture 3) Ac-adapter 12v,1.5A   Picture 4): user manual

US type or European type(optional)

1.3 Installation

1.3.1 Antenna

Connect the head of GSM antenna to the head of antenna of the back of

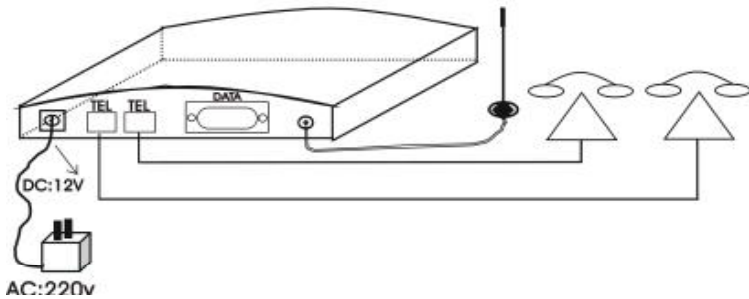the Fixed Wireless Terminal.

1.3.2 SIM Card

2.1 Open the bottom cover of fixed wireless terminal；

2.2 Plug SIM Card into the SIM card holder of PCB board, then fix the

cover；

Caution: you must switch off device before insert or take out SIM card. Prohibit

inserting or taking out SIM card when power was on, otherwise SIM card will

possibly be damaged.

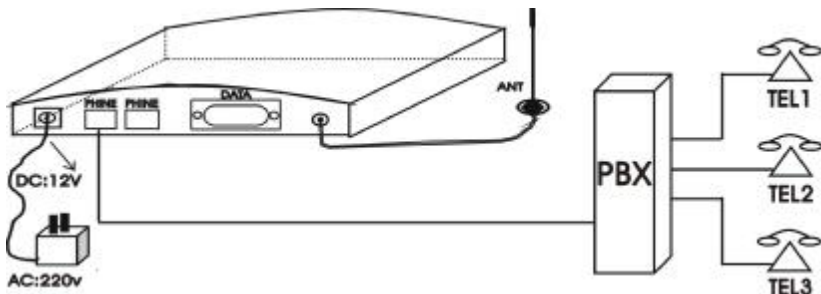### 1.3.3 Connection to Telephone Set

3.1 Draft for the connection of terminal to telephone set：

Ac-adapter

With one of Wire (the telephone line with crystal head) to telephone , and another side to TEL1 □ or TEL2 □ on the back of the terminal,
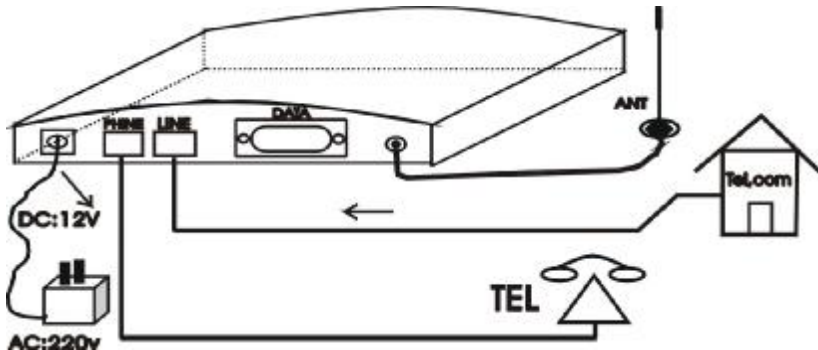
3.3.4 Connection to PBX

AC adapter

With one end of the wire (the telephone line with crystal head) to the socket of PBX equipment ,while another end to the TEL1 □ or TEL2 □ on the back of the wireless terminal.

3.3.5 Connection to Fixed line (PSTN)(Optional)

With the PHONE Port to connect TEL with wire, And LINE Port to connect Fixed line of Tel.com with wire.

The default is dialing out from GSM, if you want to make call from PSTN, please press "#" before you input the number.

And you can receive calls from call to PSTN and GSM number both.

3,MAIN FUNCTIONS &FEATURES

l Simple to install and easy to maintain;

l Steady module (Sim340) & reliable design ensures good performance;

l Provide optimized circuit directly connecting the exchange device for extensions;

l Compatible to most telephones, PBX(for office use) & VoIP gateways (for call termination);

l Connect to Alarm systems to realize wireless alarm(for security use);

l Strong signals with high gain antenna;

l Attractive Plastic casing;

l SIM card support(3V,5V);

l DTMF CLIP (Caller ID display);

l Provide reversal polarity signal,12Khz,16Khz (selectable) for metering;

l No noise &Clear voice ;

- Suitable for wide voltage range &Low power consumption;
- Suitable for all kinds of weather & environment;
- RJ-11 ports (two extensions /phone and line (optional));
- Locking PIN/ Network (optional).

4,SPECIFICATIONS

1.Air Interface Standard: GSM 900/1800 MHz Phase 2+

2.Frequency Ranges:

	Transmission	Reception
GSM 850		
GSM 900	890~915MHz	935~960MHz
GSM 1800	1710~1785MHz	1805~1880MHz
GSM 1900		

3.Channel Space: 200KHz

4.User line, bell signal ：In line with GB/T15279

5.Max Power:0.25W/0.5W

6.Consume ：Immobility≤25MA,Transmission ≤400MA

7.Sensitivity ：-105db

8.Dialtone frequency: 450Mhz (Standard)

9.Surrounding Temperature ： -10 ℃ ～ +40 ℃ Relative humidity:45% ～ 90%（Without frost）

10.Atmosphere Pressure：86 ～ 106Pka

11.Environment Noise :〈60db

12.Antenna Amplifying: 3.5db(omni directional)、12db(certain direction /chosen direction)

13.AC Power: Input:(AC100-230V,50/60Hz) Output: (12V 1A) Switching type /Transformer type Ac-adapter(optional)

14.Connector of Power：American/European/British type (Selectable).

15.Dimensions(L×W×H) Average :185×135×22（mm）

16.Weight ：FWT 400g, full set with ac-adapter &antenna &box 850g

17.Color: black;

18.Connection Mode：RJ-11 phone sockets;

19.Antenna Connection: SMA Antenna Connection.

5,APPLICATION

l   For public use as payphones;

l   For Office &Home use；

l   For rural and mountainous area；

l   For mobile carriage, like ship, automobile and train etc.；

l   For those where hardwire-line telephone service is unavailable.

6,Malfunction analysis & exclusion

Malfunction	Reason & solution
Can not switch receiver platform on	Power off The power switch has not been put on proper location
Always hear busy sound when hang on the phone	Has not insert SIM card or SIM card connect with card slot improperly or receiver platform has not been connected with network
Can not connect with network	Signal too weak in location
Signal indication weakness	Signal too weak and can adjust antenna direction or change other place to improve it Antenna was connected improperly and can tweak the screw cap on the bottom of antenna.

No dialing sound	Telephone line plug improperly and please re-plug it.
Has noises during talking	Signal too weak
Accidentally death	Switch off the power and wait a moment then restart it.
Has echo during talking	To change place location Network problem and please consult with network agency.

7,Maintenance

1,Keep it dry. If water in it neglectfully, please dry it up immediately. Otherwise will damage internal circuit.

2,Please use and keep in room temperature, don't expose in strong sunlight.

3,Unwanted temperature will shorten the life of components and damage battery & plastic parts.

4,Place carefully during using and transportation,Badly drop will damage PCB and cause the machine out of whack.

5,Keep the circumstance clean, otherwise will make the machine aging prematurely.

6,When clean the telephone, please use the dry duster cloth and don't use chemic solution.

8,Function setting

The set each function by using telephone which connects to GSM wireless receiver platform, we use the signal power LED to prompt whether the setting is right. If the setting is right, three signals power LED flashing slowly (light on 500ms, light off 500ms), and accompany with the dial tone. And if the setting is wrong, the signal power LED flashing quickly (light on 100ms, then light off 100ms), and accompany

with the busy tone. If the setting is wrong, you must \hang up one time then continue setting or reset.

1,Rapid-dial Number Digit & CID Setting

Format: 0*#1234*11*x*MM*NN*Y*#

X-Rapid-dial matching number (1-5 digit)

MM-Rapid-dial digit 1, it's the same with the matching number.

The dial number digit: range from 06~19

NN- Rapid-dial digit 2: it's not the same with matching number.

The dial number digit: range from 06~19

Y-the switch of CID, I means on, 0 means off.

Example: 0*#1234*11*13*11*07*1*#

It means the number begin with 13 will dial-out immediately after finish dialing 11 digit number, but if the number begin with other digit, it will dial-out after finish dialing 7 digit number, and CID function keep effective.

2,Phone-lock Setting

　　Format: 0*#1234*12*1*#

　　Cancel the phone-lock setting

　　Format: 0*#1234*12*#

　　(Phone-lock: the phone must use currently SIM card)

3,Dial Forbidden Setting

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

X-group setting (it can set 0~9 totaled 10 groups)

Y-the forbidden number (1~5 digit)

Example: 0*#1234*13*1 *138*#

It means the first group of forbidden number is 138.

Cancel Single Group of Forbidden Number Setting

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

Example: 0*#1234*13*1 * #, it means the first group of forbidden

number be cancelled.

Cancel All Forbidden Number Setting

Format: 0*#1234*13 *#

4,Resume to Factory State Setting

  Format: 0*#1234*3 *#

Factory state system parameter as follow:

(Other setting is in the resume state)

Rapid-dial matching number: 000000(means no matching number)

Rapid-dial digit 1:19

Rapid-dial digit 2:19

CID state: 1(CID enable)

Phone-lock setting: 0(no phone-lock number)

Forbidden number: no forbidden

Operation band: 9001800(900M/1800M)

Send My Caller Identity: 0(set by network)

Note: Be careful to use this order! This operation would clean all the current setting, and resume to the factory state.

5,Check the Rapid-dial and CID Setting

Format: 0*#09#

Display: MMNNYX

MM- Rapid-dial digit 1

NN- Rapid-dial digit 2

Y-CID state

X- Rapid-dial matching number (5 digit at most, 000000 means no setting)

Example: Display 1107113

It means the number begin with 13 will dial-out immediately after dialing 11 digit number, but if the front digit is not 13, it would dial-out after dialing 7 digit number, and the CID function keep effective.

6,Check the Phone-lock Setting

Format: 0*#07#

Display: 007XY

X-0 means haven't locked

  1 means it have locked

Y-means the number of the SIM card's IMSI last four digit

Example: 00713649

It means this phone has \been locked, you could only use the SIM card in use, and the last four digit number of this card's IMSI is 3649.

7,Check the Forbidden Number Setting

Format: 0*#00*X*#

Display: 01XY

X-means which group (0~9)

Y-means forbidden number (1~5 digit)

If no Y display, it means this group no forbidden number.

Example: 017123 means the seventh group forbidden number is 123.

8,Set the Operation Band

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

M- 1 means setting the equipment working in 900M/1800M.

M- 2 means setting the equipment working in 850M/1900M.

9,Check the Operation Band

Format: 0*#05#

Display: 005X

X-9001800 means the equipment's working band be set in 900M/1800M.

 8501900 means the equipment's working band be set in 850M/1900M.

10,Send My Caller Identity

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

M-0 means set by network

    1 means disable

    2 means enable

11,Check the Setting of Send My Caller Identity

Format: 0*#04#

Display: 004X

X- 0 means set by network

    1 means disable

    2 means enable

(VERSION NUMBER: 18890015)

Warranty Card

Please fill in the blanks carefully, and keep it properly as the voucher
for warranty.

Type of Equipment	FWT-8818 GSM Fixed Wireless Terminal		
User's name		Contact with:	
Contact Tel.no.			
Address			
Date of Ex-works			
Date of Maintenance	Damage	Management	Maintainer

Sales Agent (Stamp)		Purchasing Date	