

*e*TROSS

ETROSS-8888 32 SIM 8 PORTS GSM FWT

(GATEWAY)

USER'S MANUAL



ETROSS COPYRIGHT -2009 1'ST VERSION

1,General Description:

1. Summarize

The design of the ETROSS-8888 FWT is to supply a standard sound phone in the area of the GSM Cell Network covering.

The interface board of the ETROSS-8888 FWT supply a clear bond between standard phone or a VOIP GATEWAY or A PBX and GSM Cell Network it possesses the function of the emulation phone exchanger and supply:

- ◇ Dialing tone
- ◇ DTMF Dialing
- ◇ Caller ID
- ◇ Bell signal
- ◇ Polarity reversal
- ◇ The RJ-11 socket which connect the phone or the payment
- ◇ Antenna socket (FME)
- ◇ IP usage switch
- ◇ Working state indicator
- ◇ Signal Strength indicator

2. Configuration and installation

1). ETROSS-8888 Fixed Wireless Terminal package list:

◇Fixed Wireless Terminal(mainframe)	1pcs
◇850/1900/1800/900MHz antenna(FME)	1pcs
◇Users Guide	1pcs
◇+12V power supply	1pcs
◇Certificate	1pcs
◇Data cable (optional)	1pcs
◇Double core telephone line	1pcs

2). Installation Steps:

The equipment adopt digit GSM network communication mode, it need effective SIM card.

- ① Install the Fixed Wireless Terminal in a suitable place.
- ② Turn off the power at the back of the unit.
- ③ Install effective SIM card.
 - a) Take off the screw of the SIM card cover at the back of the unit
 - b) Open the SIM card cover.
 - c) Move the SIM card clamp according to the arrow.
 - d) Lift the SIM card clamp to insert the SIM card
 - e) Press the SIM card clamp and move it to firm
Close the SIM card cover then wring the screw.
- ④ Input the antenna into the socket.
- ⑤ Plug the end of the conjunction line of the phone(payphone) into the RJ-11 socket of the FWT and connect the other end to the phone(payphone).

1. Plug the 220v socket and connect the other end to the power socket at the back of the FWT.

- ⑦ Turn on the power at the back of the FWT

You can operate the FWT after installing and passing the setting of the system initialization of the network supplier.

3. Function

ETROSS-8888 Fixed Wireless Terminal is a wireless equipment which base on GSM 850/1900MHZ, 900/1800MHZ. it communicate clearly and has no noise, with insider backup battery and is convenient and durable.

The function of the FWT is as follows:

1. Supply two set extension to connect
2. Incoming call display
3. Set local code, IP access code and special number;
4. Set limiting to dial national long distance call, mobile phone call and local call,
5. Set using IP or not ;
6. Lock phone and telecom operator;

7. Lock card automatically, lock card with random PIN code or fixed PIN code .

4. Operation

4.1 Turn on

Turn on the power, the unit need about 20 minutes to load initialize data automatically and search network, in the period the working indicator keep on lighting, you can listen to the dialing tone after picking up the handset, the indicator will flash at 1Hz frequency. In the process of turning on the phone , when you set locking unit (lock card ,lock network), the unit will check automatically according to the setting, if it fail to pass check, it will supply 2 minutes error tone through the phone then disconnect the phone.

4.2 Board indicator state:

Power light: external power indicator

Battery light: battery working indicator, the indicator will light when the battery work.

Signal light: network signal indicator, flashing with signal and extinguish without signal.

Working light: the unit work indicator, it light when start the unit then flash after starting.

Status light: in the picking off state, it light when pick off and go out when hang.

Charge light: charge indicator, it light when charge and go out when finish charging or do not connect to the power.

4.3 Dialing call

When signal strength indicator display to receive strength signal and the working indicator in the light state, pick off the handset which connect to the FWT, you can hear the dialing tone, if it connect to the payment, the payphone will display the dialing number and the charger when it get through. It will give the payphone or voip gateway a ACCURACY reverse polar.

4.4 Incoming call

The phone will ring when call comes, pick off the handset to talk with the other side.

4.5 How to use payphone.

Please refer to the payphone manual.

5. Technology Index

- 1). Frequency ranges:

GSM 850/1900/900/1800MHZ.

2). SIM Card: It support 3VG-SIM card.

3). Phone interface: **supply RJ-11 Phone Interface**

Hanging voltage:45V Picking off voltage: 30mA/41mA

Dialing tone Frequency: 450Hz

4). Antenna interface: Antenna amplifying > 1.5DB

Sensitivity < -104DBM

Transmitting power≤3W

5). Adapter interface: INPUT: AC 175~260V

OUTPUT: +12V/1000MA

6). Serial communication interface : RS-232 full serial interface mode (with assign date transport line)

7). Operation Circumstance:

Operation temperature: -10℃ ~ 60℃

Storage temperature: -20℃ ~ 70℃

Operation humidity: 45% —95%

Atmosphere pressure: 86 —106Kpa

Environment noise: < 60DB

Transmitting Power: 2W

Sensitivity: <-104dbm

Antenna Amplifying: >1.5db

Dialing frequency: 450Hz

Hanging voltage: 45V

Picking current: 30mA/41mA

6, Function Setting

Before you do the following function settings, Lift handset or press hands free key of telephone s

1) Adjust dial interval

*#01#30# , 01--command, 30--time, Max 9.9 seconds, Min 0.5 seconds, factory default setting is 3 seconds.

***If you use etross-8888 for connecting to VoIP gateway, you can set dial interval as 0.5 second, it can make PDD<5 sec (Method: *#01#05#);**

***If you use etross-8888 for connecting telephone, PBX, billing device, you can set dial interval as 3 seconds or 5 seconds as you like (Method: *#01#30#, set the dial interval as 3 seconds).**

2) Adjust Earphone Volume

*#02#15# 02--command, 15--volume, Max 16, Min 1, factory default setting is 15.

3) Adjust Mic. Volume(sensitivity)

*#03#10# 03--command, 10--amount, Max 16, Min 1, factory default setting is 10.

4) Setting local area code

*#04#*0755# 10--command, *0755—area code, Max 5 numbers, use "*" instead if area code is less than 5 digits.

5) Setting IP numbers

#05#17911# 05--command, 17911—IP numbers, Max 5 numbers, use "" instead if IP number is less than 5 digit.

7) 32 Sims setting

A) Sim cards setting (each channel how many simcards you want to put)

*#80#04# 80---command 04---amount max 04 min 01 factory default setting is 04

B) Bill router by dialing times (sim cards can be dialed from times 00 to 99)

1) First sim card

*#81#10# 81---command 10---amount max 99 min 00 factory default setting is 10

1) Second sim card

*#82#10# 82---command 10---amount max 99 min 00 factory default setting is 10

1) Third sim card

*#83#10# 83---command 10---amount max 99 min 00 factory default setting is 10

1) Forth sim card

*#84#10# 84---command 10---amount max 99 min 00 factory default setting is 10

C) *#88#01# set the current use of which sim card 87---command 01---amount(01~04)

C) Bill router by talking times (can be talking time max hours from 02~99)

*#85#02# 85---command 02---amount(hours) max 99 min 00 factory default setting is 02

D) Resetting bill router from dialing times to talking times

*#86#00# 86---command 00---amount factory default setting is 00

00---changing by dialing times

01---changing by talking times

E)*#87#01# set the current use of which sims card 87-command 01-amount(01~04)

F)Set Sims & imei automatically switching(switch SIM card, IMEI simultaneously switching) here is detials:

1)*#90#00# 90--command, 00--amount, 00—do not switch 01— switch SIM card, IMEI simultaneously swithcing 00--(factory default setting)

2) Set the imei numbers into EEPROM

351373000057097 -- 15 digitals imei numbers

*#91#01*351373000057097# 91---Command 01—into the location of EEPROM (which can be set range is 01-10)

3) the IMEI of EEPROM writing steps:

3.1, the IMEI is written in memory of FWT

*#18#351373000057097 # 18--Command, 351373000057097 - 15 digitals imei numbers

3.2, Verify writing Imei, if it is correct, it would be written to the EEPROM of FWT

*#91#01*351373000057097# 91--command, 01—(IMEI into location of EEPROM,which can be set range is 01-10)

(IMEI into FWT memory should be same as Imei written into EEPROM)

Note: For IMEI can be switched automatically, there must be deposited in one or more IMEI to the EEPROM, IMEI number is set greater than 1.

8) IMEI change will be done by telephone keyboard(Software optional)

IMEI changing setting:

1, pls write imei into internel memory of FWT

*#18#012345678901234# 18---Comand 012345678901234 total 15 digital imei No.

2, confirm whether u write well imei, if yes, pls write it into module of FWT

*#19#012345678901234# 19---Command 012345678901234 total 15 digital imei

Pls note that you can write imei in unlimited time

3) after writing, pls switch on our Fwt, secs, you will see there is ring tone in the ordinary telephone, meanwhile in the lcd of telephone, it will show out ur new imei. If u can see, that is to day, u write it successfully.

9). Blocking incoming calls setting(optional):

*#14#00# 14--command 00--amount 00--incoming calls available

*#14#01# 14--command 01--amount 01-blocking incoming calls

(factory default setting is 00)

10) Hide caller ID setting

*#13#01# 13-command,

The terminal can show caller ID when default.

When you set *#13#01#, it means hide caller ID.

When you cancel hide caller ID, set *#13#00#

11) Restore to factory default setting

*#99#99# Restore to factory default setting.

7. Making Calls and Answer Incoming Calls

Making Calls

1. Lift the handset or press “hand-free” key, you will hear dialing tone, then you can dial the telephone numbers you want to call.
2. Dialing: dialing the telephone numbers you want to call
3. On completion of dialed digits, you can press “#” to transmit the called telephone numbers. If you don’t dial any key for continual 3 seconds during the dialing, terminal transmits called telephone numbers automatically.
4. During calls, if the telephone numbers is not free ones, the terminal sends out anti-polarity signal.
5. If the calling party or called party hangs up, the terminal stops sending out anti-polarity signal.

Answering Incoming Calls

When some calls are coming in, if the connected telephone has the function of displaying incoming calls, the telephone rings and displays the incoming telephone numbers. Now users can lift the handset or press “hand-free” to answer it.