

GSM FAX Terminal-8848

User's Manual



GSM FAX Terminal-8848 Version 1.1 -2010

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1. General Description


Welcome to use the GSM FAX Terminal-8848 which supports voice and fax. Please read this user's manual carefully before use.

The GSM FAX Terminal-8848 has the basic telephone function by easily connecting to telephone set, and it can also connect to analogue fax machine to send/receive faxes. The device is available to use in areas where the cable and telephone installation are not accessible.

Available:

- GSM 900/1800Mhz dual band, employing Siemens TC35i module to make;
- GSM850/900/1800/1900MHz Quad band, employing Siemens MC55i module to make.

Appearance and Structure

Item	GSM FAX Terminal-8848	Remark
Appearance		White/black
Material	ABS (Acrylonitrile Butadiene Styrene)	
Dimension	170mm×118mm×30mm	Excluding antenna
Weight	400g	Weight of Main unit
Power Switch	Rocker switch	
Power Socket	12V DC input	
Phone interface	RJ11	2 RJ-11 ports
Antenna interface	SMA-female	
LED display	No.1: Power, No.2.in use, No.3, in talk, No.4, Battery, if have, No. 5-7, Signal strength	From left to right(front side view)
Front side	LEDs display for Signal strength, Power, Working Status, Talking and Battery indicator;	

Rear side	1pcs SMA antenna connectors, 2 RJ-11 output, Power port and switch;	
Bottom side	1pcs Sim card holder slots, you can insert Sim card into the slot.	

2. Features

- 1) GSM G3 fax terminal supports voice and fax function;
- 2) Employ Siemens TC35i /MC55i module to make ;
- 3) Can send and receive fax by connecting to an analogue fax machine;
- 4) Compatible to most telephones, PBX devices and analogue fax machines;
- 5) Strong signals with high gain antenna;
- 6) Attractive plastic casing;
- 7) SIM card supported (1.8V, 3V);
- 8) DTMF CLIP (Caller ID display);
- 9) Provides reversal polarity signal for billing;
- 10) No noise and clear voice;
- 11) Suitable for wide voltage range and low power consumption;
- 12) Suitable for all kinds of weather and environment;
- 1) RJ-11 ports (both can connect to ordinary phone set and analogue fax machine);
- 15) Locking PIN / network (optional);
- 16) Back up Li-ion battery (Optional) 7.2V 1300mAh.standby 24hrs, talking time: 2.5hrs.

3. Installation and Connection

3.1 The Condition for Installation

The terminal asks for 110- 220V AV power supply. It must be installed in the area where the GSM network can cover. The strength of the signal can affect the quality of voice.

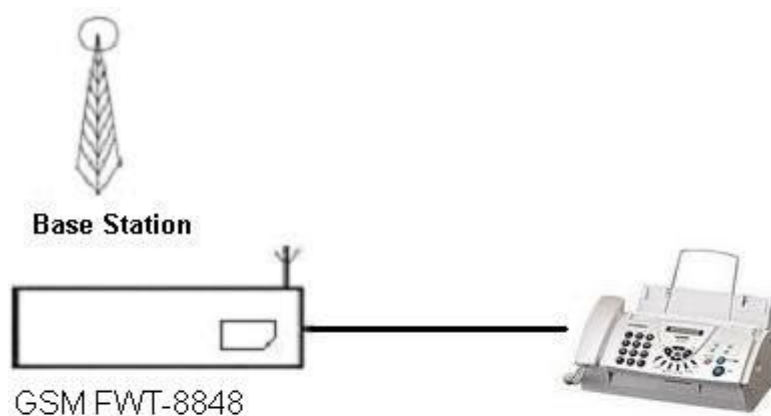
1. Take out SIM cover that are on the back of the terminal, Insert SIM card into Sim card holder, then put on the SIM cover.
2. Install antenna. In order to ensure the quality of voice, antenna must be put beyond 1.5 from

the telephone and terminal.

3. On end of the telephone line connects to the "Phone" port of the terminal, the other end connects to telephone.
4. "Power" port connects to power adapter that is connected to 110-220V AC power supply.

3.2 The Installation for Connecting to FAX machine

The Sketch for connecting analogue fax machine.



1) How to Send FAX?

The following methods are the way to send fax:

- a) add `*#888#` or `*#887#` before the fax number, (e.g. `*#888#28167031`, "28167031" is fax number).

the maximum fax speed of `*#888#` is 9600bps, (high speed)

the maximum fax speed of `*#887#` is 4800bps. (low speed).

- b) Set FWT into FAX mode

`*#30#01#` set FWT into FAX mode, the maximum fax speed is 9600bps

`*#30#02#` set FWT into FAX mode, the maximum fax speed is 4800bps

`*#30#00#` cancel the FAX mode

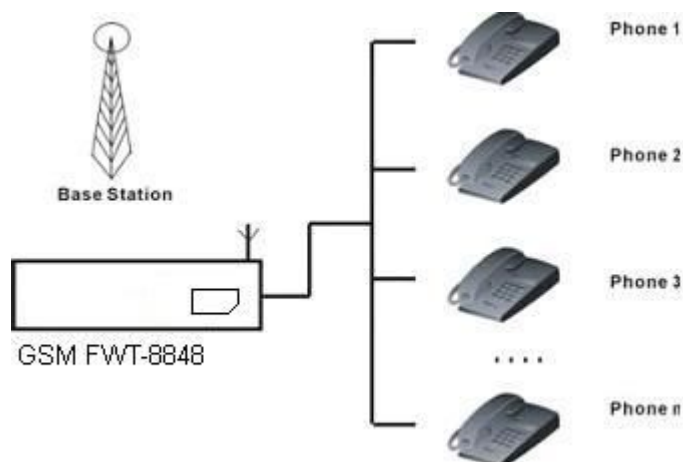
Note: After the user has set the FWT into FAX mode, it can not make voice call, you should cancel the fax mode, then it can make voice call.

2) How to receive FAX?

FWT can identify the incoming fax automatically, and make a sound automatically after getting through.

3.3 The Installation for Connecting to Ordinary Telephone

The Sketch for connecting ordinary Telephone

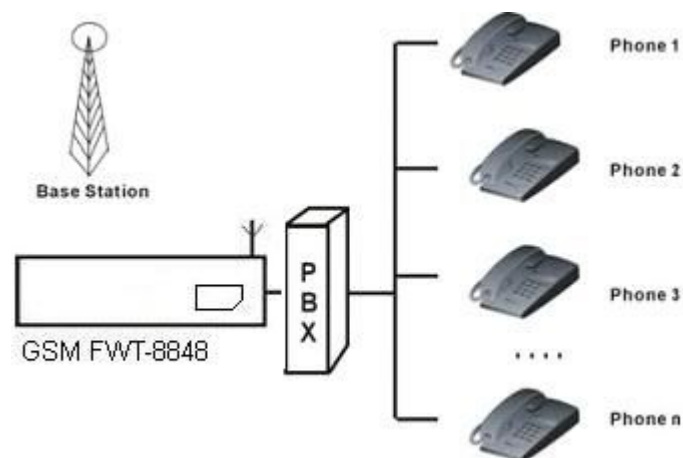


Draw your attention: Because there are many types of ordinary telephone and their electric parameters are different. In order to avoid mutual disturbance between telephone and terminal and affect voice quality. The distance between telephone and terminal is 1.5m at least.

3.4 The installation for connecting to PBX for call extensions

If users want to connect small PBX to this terminal, connect terminal's "Phone port" to the PBX.

The sketch for connecting to PBX device.



4. Technical Parameters

1) Air interface: GSM 900 / 1800MHz or Quad band (850/900/1800/1900Mhz)

Frequency ranges:

A) GSM 850

GSM 1900:

I) Transmission: 869.2 ~ 893.8MHz

I) Transmission: 1, 930 ~ 1, 990MHz

II) Reception: 824.2 ~ 848.2MHz

II) Reception: 1, 850 ~ 1, 910MHz

B) GSM 900:

GSM 1800:

I) Transmission: 890 ~ 915MHz

I) Transmission: 1, 710 ~ 1, 785MHz

II) Reception: 935 ~ 960MHz

II) Reception: 1, 805 ~ 1, 880MHz

2) External in interface:

The power supply interface: POWER/DC12V

Outside phone interface: 2 RJ11 (PHONE)

The antenna interface: SMA (Female)

1.8V, 3V SIM interface

3) Power adapter:

Input voltage: AC90-260V/ 50HZ

Output current: 1.2a

4) Backup battery (Optional)

Build-in li-ion battery. 7.2V 1300mAh

5) Antenna:

Frequency Band:

890-960 MHz / 1710-1880 MHz

Gain: 2.5dBi

Wave ratio: <1.5

Input resistance: 50ohm.

Polarize method: perpendicularity polarizes

6) Size: (LxWxH): 420mmX 220mm X 70mm (not include the antenna)

7) Weight: 0.8kg (include the antenna, battery, power adapter).

Phone interface: supply RJ-11 Phone Interface

Hanging voltage: 45V

Picking off voltage: 30mA / 41mA

Dialing tone Frequency: 450Hz

Antenna interface: Antenna amplifying>2.5db

Sensitivity:<-104DBM

Transmitting power<3W

Color: White /Black (optional)

AC-Adapter interface: Input: AC 110~240VAC 50~60Hz

Output: 12DC 1A.

AC-Adapter type: EU, US, AU, British can be optional

5. Function Setting

Before you do the following function settings, Lift handset or press hands free key of telephone set, then you can press the buttons according to the following instructions to finish setting, you will hear 2 beeps when you finish, this testify setting successfully.

1) Restore to factory default setting

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

2) Adjust dial interval

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

3) Adjust Earphone Volume

*#02#02# 02--command, 02--volume, Max 4, Min 0, factory default setting is 2.

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.

6) Set to open PIN code check and automatic PIN lock function

***#07#*1234#** 07-command, 1234- the current SIM card PIN code

If set successfully, the device will open PIN code check, and automatically change the current SIM Card into "PIN on" from "PIN off"

7) Set to close PIN code check and automatic PIN lock function

***#08#*1234#** 08-command, 1234- the current SIM card PIN code

If set successfully, the device will close PIN code check and automatic PIN lock function.

8) Set to change PIN code, open automatic PIN lock function

***#09#1234*56785678#** 09-command, 1234-old pin, 5678-new pin. (5678 can be any other 4 digits number, suppose you can use 2010).

If set successfully, the device will change the current sim card PIN code as you want.5678, or the any other 4 digit PIN codes, and open automatic PIN lock function.

9) Set to open Network lock function

***#10#01234#** 10-command, 01234-password

10) Set to close Network lock function

***#11#01234#** 11-command, 01234-password

11) Set the Network codes

***#12#1*46003*46003#** 12-command, 1--No. Of IMSI, 46003--the IMSI code for China Telecom

***#12#2*46000*46000#** 12-command, 2--No. Of IMSI, 46000--the IMSI code for China Mobile (optional)

12) Bar incoming call Setting

***#14#00#** 14--command, 00--value, 00--no barring, 01--set barring default setting --00

13) Billing Mode setting

***#15#00#** 15--command, 00--value, 00--no billing, 01-reversal polarity, 02-12K, 03-16K, factory default setting-- 01

14) DTMF Prefix setting

#16#01#** 16—command, 01—value. 00—A**C, 01-- D*****C, factory default setting—01

15) Caller ID display modes setting

***#17#00#** 17-command, 00-value, 00-DTMF, 01-FSK mode
 01—FSK mode-BELL202 FSK,
 02—ETSI DT-AS FSK,
 03—ETSI RP-AS FSK,
 04—ETSI LINE REVERSAL DT-AS FSK

00—factory default setting

16) Time and date setting

*#20#MMddhhmm# 20—command, MM---month, dd---date, hh---hour, mm---minute

NOTE: The time setting will not be saved after the FWT is power off.

6. Operation Circumstance

Operation temperature: -10c~60C

Storage temperature:-20C~70C

Operation humidity: 45%-95%

Atmosphere pressure: 86-106Kpa

Environment noise: <60DB

Transmitting Power: 2W

Sensitivity: <-104dbm

Antenna Amplifying: >2.5db

Dialing frequency: 450Hz

Hanging voltage: 45V

Picking current: 30mA/41mA

7. Packing List

Name	Quantity	Remark
GSM FAX FWT-8848	1pcs	Dual band or Quad band
Ac- adapter	1pcs	AC-110-240V, DC12V/1A
Antenna	1pcs	Magnetic Antenna with 3m cable
User's Manual	1pcs	English

G.W: 0.75kg per unit. 20pcs/CTN, 16kg /CTN, CTN Size: 55cmX34.5cmX32.5cm

8. Troubleshooting

8.1 Network

The GSM fixed wireless terminal needs about 15 seconds to search for local GSM network (specific time spent subject to local network conditions).

8.2 Power supply

When the power supply switches on, the power indicator light is on. If the power supply switches on but the power indicator light is off, then please check:

- 1, The power cable, the plug and power supply is normal or not.
- 2, If there're no errors found through checking the above items and the breakdown cannot be excluded, please contact the vendor for help.

8.3 FAQ

Q: How long after startup can I dial the phone number or send/receive faxes?

A: The startup takes about 15 seconds, then the signal light is on, and the system operates in normal state.

Q: Can I send/receive faxes by connecting the fax machine to the telephone port?

A: No, only the fax machine connects to the fax port can it send/receive faxes.

Q: Why it spends a long time to connect to network after I dial the number?

A: Please dial “#” after dialling the number, then the device will send the number immediately.

Q: Can I use the ordinary SIM card to send/receive faxes?

A: No. The SIM card has two numbers – the main number and associate number. The main number sets up voice and G3 fax functions, implementing calling and fax outbound respectively; the associate number sets up G3 fax function to receive faxes. The two numbers are different, please contact local operator for details. As for the data set-up for mobile SIM card, the G3 fax standard must choose TS62, namely GSM AUTOMATIC G3 FAX. Choose the speed rate as 9600bps to activate mobile fax business, then the SIM card need to cancel the VPN to become ordinary user.

Q: When I send/receive faxes, can I make conversion first and then send faxes like fixed fax machine?

A: No. This function requires that GSM network should support TS61.

Q: Which kind of fax machine is ideal for me to choose?

A: We suggest you choose laser fax machine.

Q: Why the pages draw out when I use my thermal fax machine to receive faxes?

A: The reason is that the thermal fax machine's feed speed cannot synchronize with the network data input speed. This situation also appears when the thermal fax machine

connects to PSTN to receive faxes. It will return to normal to use laser fax machine instead.

▲ **Notes**

- a) Please do not open the cover of device to repair without permission.
- b) The company shall not take any responsibilities for the device's abnormality caused by changing adaptor without permission.
- c) Please check the enclosed adapter' voltage matches to local voltage.

Warranty Card

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

Type of Equipment	GSM FAX Terminal-8848		
User's name		Contact with:	
Contact Tel.no.			
Address			
Date of Ex-works			
Date of Maintenance	Damage	Management	Maintainer
Sales Agent (Stamp)		Purchasing Date	