

Wonderful Communication, Mobile Life.

Welcome to use HUAWEI ETS1000 Series Fixed Wireless Terminal

HUAWEI ETS1000 Series Fixed Wireless Terminal

User Guide

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1

Warnings and Precautions

Before using the HUAWEI Fixed Wireless Terminal (hereinafter referred to as the FWT), read the following cautions and let your children know these, so that you can use your FWT correctly and safely.

Basic Cautions

- According to the packing list, check items in the package box to make sure that they are complete and undamaged.
- Before installing and using the FWT, read this user guide carefully.

Electronic Device

Power off your FWT near high-precision electronic devices. The FWT may affect the performance of these devices.

Such devices include hearing aids, pacemakers, fire alarm systems, automatic gates, and other automatic-control devices. If you are using an electronic medical device, consult the device manufacturer and confirm whether the radio waves affect the operation of the electronic device.

Hospital

Pay attention to the following points in hospitals or health care facilities:

- Do not take your FWT into the operating room (OR), intensive care unit (ICU), or coronary care unit (CCU).
- Power off your FWT near medical devices.
- Observe any instructions wherever the use of wireless device is prohibited.

Traffic Safety

- Do not use your FWT while driving. Secure the FWT on its holder. Do not place the FWT on the seat or other places where it can get loose in a sudden stop or collision.
- Observe the rules and regulations of airline companies. Power off your FWT before boarding an aircraft.

Operating Environment

- Do not place magnetic storage media such as magnetic cards and floppy disks near the FWT. Radiation from the FWT may erase the information stored on them.
- Do not put your FWT, battery, or other accessories in containers with strong magnetic field, such as the induction cooker and microwave oven. Otherwise, circuit failure, fire, or explosion may result.
- Do not place or use the FWT, the battery or the power adapter near any heat sources such as fire or a heater; or places with flammable gases; or areas with electrical appliances that give out heat. Otherwise, it will cause fire, explosion and breakdown of the FWT
- Because the FWT needs to eliminate heat during working, put the FWT and the power supply in a ventilated and shadowy place. Never airproof the FWT or put something on it or place it near water, fire as well as inflammable and explosive materials.
- Because the FWT contains precision devices, you should put it in a dry place and away from moist materials.
- Before cleaning the FWT, please power off the FWT, and then disconnect the power supply and take out the battery. Before moving the FWT, please disconnect the external power supply.
- Do not subject your FWT, battery, and power adapter to serious collision or shock. Otherwise, battery leakage, FWT malfunction, overheats, fire, or explosion may result.
- Do not place sharp metal objects such as pins near the earpiece. The earpiece may attract these objects and hurt you when you are using the FWT.
- Do not place the FWT in the area over the air bag or in the air bag deployment area. Otherwise, the FWT may hurt you owing to the strong force when the air bag inflates.
- In raining and lightning, disconnect the power adapter from external power supply and power off the FWT, In this case, if the outdoor antenna is used, do not touch the FWT and antenna.
- Put your FWT, battery, and power adapter in places beyond the reach of children. Do not allow children to use the FWT, battery, or power adapter without guidance.
- Do not touch the antenna when a call is going on. Touching the antenna may affect call quality and cause the FWT to operate at a power level higher than needed.
- The network signal condition will directly affect the quality and stability of the call. Consequently, you should place the FWT in a place where it can receive network signal well. Do not put FWT in a building with an iron or metal roof. The distance between FWT and other metal materials (such as metal brackets or metal doors and windows) should be greater than 25cm and the distance between FWTs should be greater than 30cm.
- Do not open the chassis in any case and the device should be maintained by a qualified maintenance department.
- Without permission, you are not allowed to modify the architecture and security design of FWT. You must bear any consequence resulted from the operation without permission.
- Your FWT is designed to conform to the authoritative international radio frequency (RF) specifications. Use FWT accessories approved by Huawei only.

Emergency Call

You can use your FWT for emergency calls. However, connections in all conditions cannot be guaranteed. You should never rely solely on the FWT for essential communications.

Battery

- If the battery fluid gets into eyes, do not rub them. Wash with clean water and seek medical assistance immediately.
- If the battery fluid contacts skin or cloth, wash with clean water immediately to avoid irritation to the skin.
- Do not dispose of the battery in fire. Otherwise, the battery may ignite or explode.
- When installing the battery on your FWT, do not push the battery by force lest battery fluid leak out or the battery crack.
- Do not connect two poles of the battery with metallic materials such as cables.
- Do not disassemble the battery or solder the battery poles. Otherwise, fluid leakage, overheat, fire, or explosion may result.
- If there is battery leakage, smoke, or strange smell, stop using the battery and keep it away from open flame to avoid fire or explosion.
- Disconnect the power adapter and take out the battery when the FWT is not used for a long time.
- Do select its self-contained complete battery and power adapter; otherwise, the FWT may be spoiled. Huawei Technologies Co., Ltd is not responsible for any consequences caused by using non-standard batteries or power supplies. Dispose of used batteries according to the instructions.
- Dispose of the battery according to local laws or regulations.

Power Adapter

- Use AC power as specified for the power adapter. Any violation of this rule may result in fire or malfunction of the power adapter.
- Do not short-circuit the power adapter. Short-circuiting the power adapter may cause fire or malfunction of the power adapter.
- Remove the dust on the power plug regularly.
- Do not use worn-out power cords. Otherwise, electric shock, short-circuiting of the power adapter, or fire may result.
- Do not put the power adapter near the container filled with liquid such as water. If the liquid comes into the power adapter, electrical leakage or other faults may result.
- If the liquid such as water comes into the power adapter accidentally, remove the plug of the power adapter from the socket immediately.
- Disconnect the power adapter from the socket before cleaning or maintaining it. Otherwise, electric shock or short-circuiting of the battery or power adapter may result.
- Ensure the plug of the power adapter is properly inserted into the power socket when charging the battery. Improper insertion may result in electric shock, fire, or explosion.
- Do not place any heavy object on the power cord of the power adapter. Do not damage, change, or pluck the power cord.

Using the USB Cable

To use the USB cable, you need operate abiding strictly by the following rules. Otherwise, your FWT or PC may be damaged:

- To connect your FWT and PC with the USB cable, connect to the FWT at first, and then connect to the PC.
- In the process of communication between your FWT and PC, it is strictly forbidden to plug or pull out the USB cable.
- To disconnect your FWT and PC from the USB cable, disconnect from the PC at first, and then disconnect from the FWT.

Environmental Protection

Abide by the local laws in disposing of the package materials of your FWT, consumed batteries and used FWT, and try to recycle them.

2 Introduction

Packing List

Check the delivered items against the packing list shown in the table below, and make sure that all the items are in good conditions. If there is any shortage or damage, please contact the local agent.

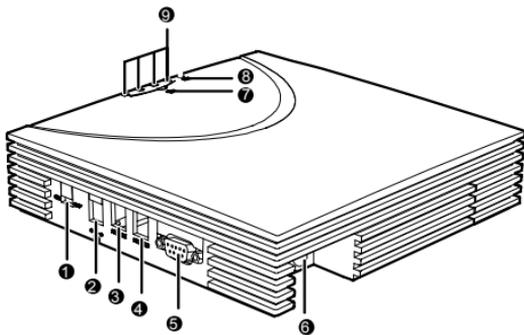
Item	Quantity	Item	Quantity
FWT host	1	Certificate of Quality	1
Power adapter	1	Battery (Rechargeable)	1
Phone cable	1	User Manual	1

Note:

- The FWT should be configured with an antenna. Please select either an indoor or an outdoor antenna depending on the local radio signal strength. For more information, please consult your local sales agent.
- If you want to use the FWT for accessing the Internet, you also need to purchase the required data suite. For more information, please consult your local agent.

Front View

The following figure illustrates the front view of the FWT host:



The ports on the host are described as follows:

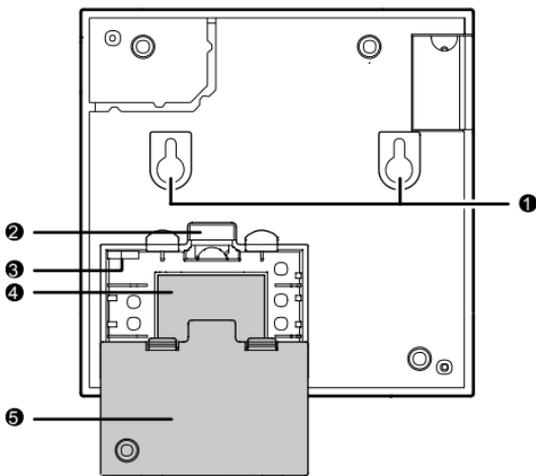
NO.	Item	Description
1	FWT switch	The switch is used to switch on or switch off the FWT.
2	DC input	This port is used to connect the FWT with the power adapter.
3	Telephone port 1	This port is used to connect the device with an external telephone to provide voice services.
4	Telephone port 2	This port provides the same functions as telephone port 1 and can connect a telephone in parallel with telephone port 1.
5	Serial port	This port is used to connect with a PC to perform data services and is mainly used for maintaining the FWT.
6	Antenna port	This port can be directly connected with an indoor antenna. Also, it can be connected to an outdoor antenna through a feeder cable.

The LEDs on the host are described as follows:

NO.	Item	Description
7	Power LED	The LED in green indicates the power adapter is connecting with the FWT.
8	Battery LED	<p>When the battery serves as the only power supply (without external power adapter):</p> <ul style="list-style-type: none">• The LED in green indicates the battery is in full electricity.• The LED in orange indicates the battery is in medium electricity.• The LED in orange with blinking indicates the battery is in low electricity and needs to be recharged. <p>When using an external power adapter (with battery installed):</p> <ul style="list-style-type: none">• The LED in orange indicates the battery is recharging.• The LED in green indicates the battery is fully charged.
9	Signal strength LED	Four LEDs indicate the signal strength. The more the LEDs are on, stronger the signal is.

Rear View

The following figure illustrates the rear view of the FWT host:



The ports are described as follows:

NO.	Item	Description
1	Wall-mounting brackets	The wall-mounting brackets are used to mount the terminal host on the wall.
2	R-UIM card slot	The R-UIM card slot is used to install the Removable-User Identity Module (R-UIM) card.
3	Battery port	This port is used for the connection with the battery.
4	Battery	The terminal is configured with a battery for backup when the external power adapter fails.
5	Battery cover	To maintain the battery, you need to remove its cover first.

3 Installation

Connecting the Terminal

Installing the Battery



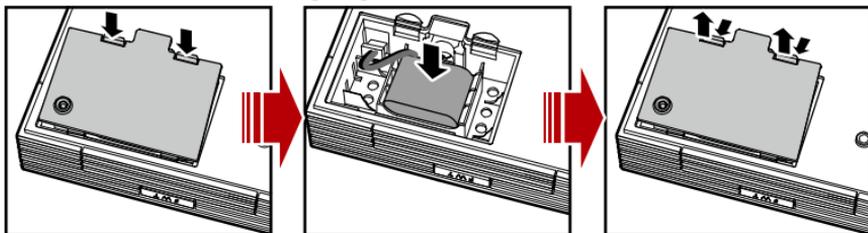
Caution:

To prevent lightning from injuring human body, please note:

If you use the outdoor antenna, disconnect it before disassembling the FWT and installing the battery.

Note:

- When the ambient temperature exceeds the temperature allowed for charging, the system will enter the protection status and stop charging the battery.
- When the power adapter is in use, the FWT will automatically charge the battery and stop it after the battery is fully charged.
- If the FWT is left unused for a long period, you need to take the battery out of the FWT.
- Before using the battery for the first time, charge the battery for at least 8 hours. When the battery is fully charged but not used for a long time, charge it for five minutes before using it again.

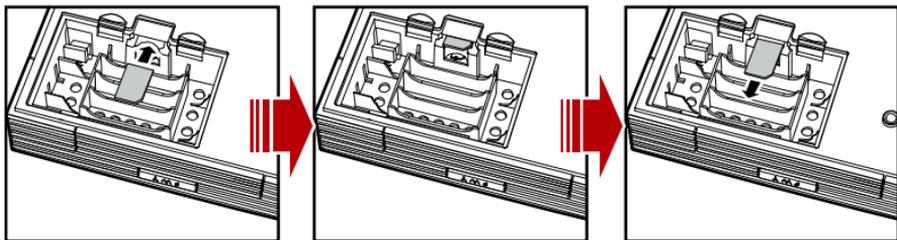


1. Make sure that the power adapter has been powered off and disconnected from the terminal. Open the cover of the battery as shown in the above figure.
2. When installing the battery, insert the connection cable of the battery into the battery port on the terminal (please make sure the insert direction), and then seat the battery in the battery container in the host.
3. Close the battery cover to complete the battery installation.

Installing the R-UIM Card (Optional)

Note:

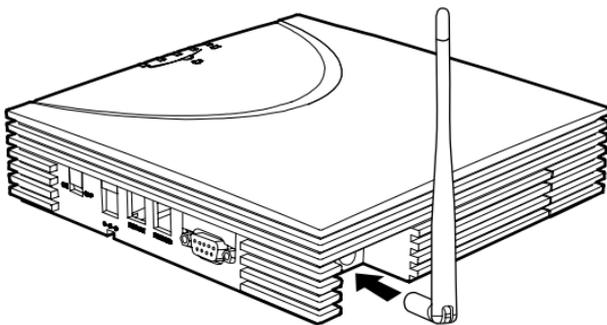
- Consult the sales agent or the carrier to decide whether to install the R-UIM card or not.
- Switch off the FWT, disconnect the FWT from power adapter and remove the battery before installing R-UIM card.
- R-UIM card and the contact point are easily to be damaged for scar or overbending, so you should insert or remove it gently.



1. Open the battery cover and remove the battery.
2. Insert R-UIM card to the card slot as the arrow shows in the above figure. Put the side with a corner cutting backwards and the side with a golden contact downwards, and then make sure the R-UIM card is completely inserted into the slot.
3. Reinstall the battery and install the battery cover.

Installing the Indoor Antenna

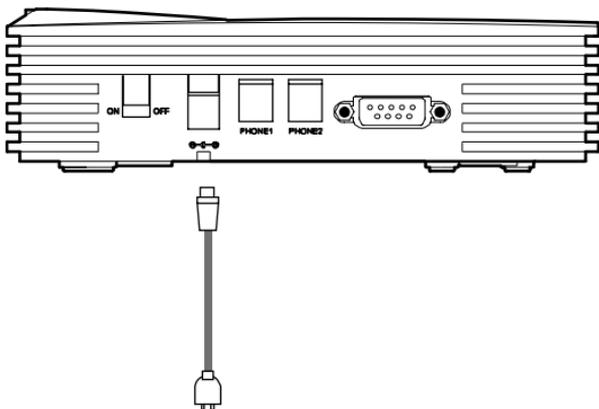
In an area that signals can be transmitted and received with good quality, you can install an indoor antenna, as shown in the following figure.



1. Make sure that the FWT is switched off.
2. Align the indoor antenna with the antenna port on the FWT host in the direction shown in the above figure, and then screw the antenna, ensure that the connection is secure.

Installing External Power Adapter

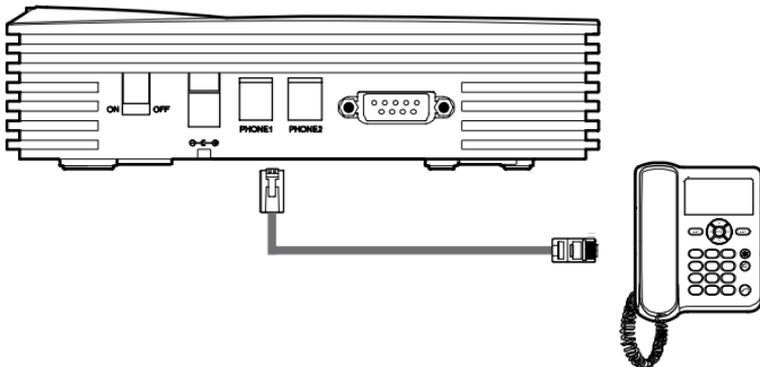
In normal conditions, the FWT depends on an external power adapter for power supply and will use the battery only in the case that the electricity has failed and the external power adapter is unavailable. As the battery can supply power only for a limited period, you must make sure that the battery has been fully charged before putting it into use.



1. Make sure that the FWT is switched off.
2. Insert one end of the power adapter into the DC input port as shown in the figure, and the other end into the power supply jack.
3. Turn on the FWT switch of the terminal and wait for a few seconds. If the power LED is green, the connection is correct.

Connecting the FWT to a Telephone

The FWT can provide voice services only when it is connected to a telephone. The following figure shows the connection.



Connect the telephone to a telephone port on the FWT through a cable with an RJ11 connector. The FWT provides two telephone ports respectively numbered 1 and 2. You can use either of them, because they are internally interconnected.

You can use the telephone cable delivered with the FWT to connect the FWT and a telephone, and you can also connect the telephone port to other telephone set (the two telephones are in parallel connection and use the same number).

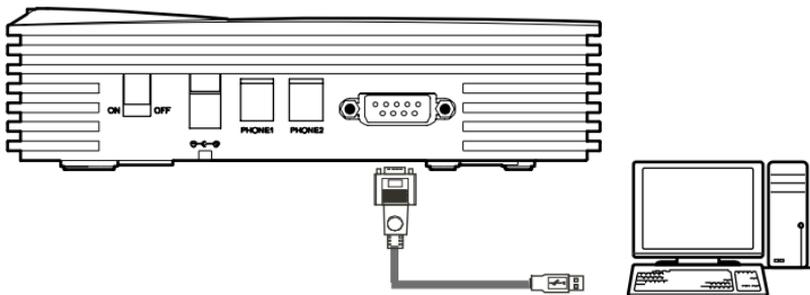
Connecting the FWT to a PC

The FWT can be connected to a PC to provide data services, maintain the terminal and debug the terminal. You need to purchase the data service suite. For more information, please consult your local agent.



Caution:

- To avoid damaging the device when making connection, switch off the FWT and use the data cable provided by the manufacturer.
- The FWT can be connected to a telephone and a PC at the same time, but the voice and data services cannot be used simultaneously. That is, you can use only one service at a time.



Connect one end of the data cable to the PC and the other end to the FWT. Fasten the captive screw to ensure the reliable connection.

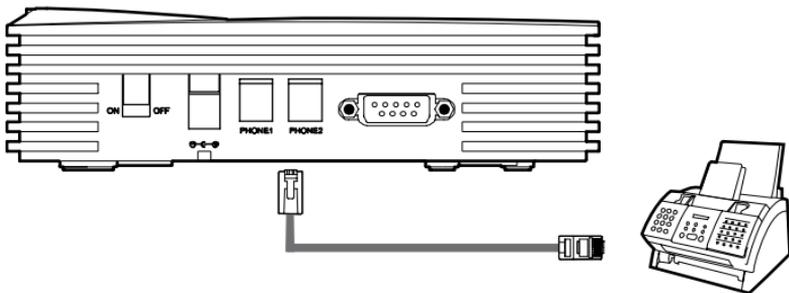
Connecting the FWT to a Facsimile Set

Connect the FWT to facsimile set to perform facsimile function.

Note:

Please affirm that your FWT supports facsimile before using this function. For detailed model description, please refer to the “Description of ETS1000 Series FWT”.

Connect the FWT and the facsimile set with a telephone line delivered in the accessories.



Connect the facsimile set to a telephone port on the FWT through a cable with an RJ11 connector. The FWT provides two telephone ports respectively numbered 1 and 2. You can use either of them, because they are internally interconnected.

Viewing the Receiving Signal Strength

The FWT provides you with the function of measuring the receiving signal strength, specifically as follows.

Searching for signals

Power on the FWT, and wait for a while until some signal intensity LEDs become on or until you can hear the dial tone upon the off-hook action.

1. If all the signal intensity LEDs keep off five minutes later and only the reorder tone can be heard, no signals can be received. In this case, you should re-position the antenna.
2. If all the signal intensity LEDs still keep off after the antenna has been turned for all position, it means that the signal quality is very poor at this area.
3. If the dial tone can be heard in some area, you should position the antenna towards this direction.

Viewing the receiving signal strength

By viewing the receiving signal intensity LEDs on the FWT host panel, you can know the present receiving signal strength. There are four LEDs to indicate the receive field intensity levels. The table below describes the signal intensity that each number of light LEDs indicates.

The number of light LEDs	Signal intensity level	Signal strength
0	0	Extremely poor
1	1	Poor
2	2	OK
3	3	Good
4	4	Strong

Normally, the FWT requires the receiving signal strength to reach level 2 and above. When installing the antenna, you should try to choose a good position and direction to achieve the good receiving signal strength.

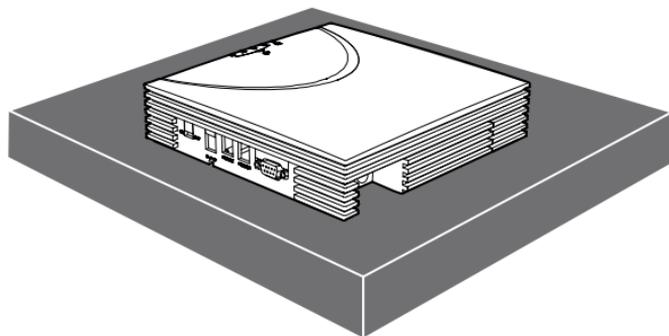
Note:

The signal strength reaching level n means that the LEDs representing level n or above keep on more than 80 percent of the time when the terminal is in operation.

Mounting the Terminal

Horizontal Mounting

To prevent the terminal from falling and hence being damaged, you should put it on a smooth surface at a cool place with good ventilation. The terminal should be placed at least 10cm away from any other objects around.

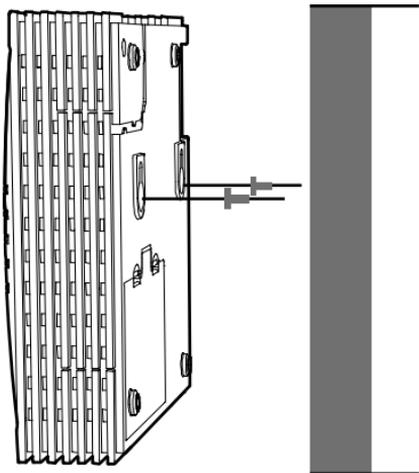


Vertical Mounting

The terminal can be vertically mounted on a wall.

Before mounting the terminal, make the marks on the wall according to the measurement shown in the figure, fix two wall screws into the wall in place with the screw heads extending approximately 3 mm from the surface of the wall, align the mounting brackets at

the terminal bottom with the screws, push the host towards wall, and mate the brackets with the screws, ensuring that the host is stable enough. Then you can hang your terminal on the wall.



4

General Functions

Booting the FWT

The boot process of the FWT will last about 20 seconds after it is switched on. If the network signal is strong, the signal strength LEDs will light after the booting process is complete. After off hook and dial tone sounds, you can make or answer a call, or send or receive a fax.

Note:

- If the network signal is too weak, all signal strength LEDs may be off after the FWT is switched on. In this case, it is recommended that you adjust the position of the antenna until you can observe the indication of relatively strong network signal.
- If the signal strength LEDs remain in an ON-OFF state after the adjustment, the weak network signal is irrelevant to the position of the antenna.
- If the LEDs remain off, the FWT may fault or the network is not covered the area. In this case, consult the sales agent or the carrier.

Making Calls

Before off-hook, make sure that at least one signal strength LED is on. If all the signal strength LEDs are off, the signal strength is extremely weak and you have little chance to make a call successfully.

Follow these steps to make a call:

1. Hook off and dial upon hearing the dial tone.
2. Dial the number in either of the following ways.

Method 1: Dial a telephone number in a regular way, and the number will be dialed out in seven seconds. For example, if you want to dial the telephone number “4503421”, simply dial all the digits of the number.

Note:

- You can set the wait time for of the FWT by entering “##58*n#”, where n ranges from 0 to 9. Setting n to 0 will disable the auto-dial-out function of the FWT. Otherwise, the FWT will automatically dial out your desired number in n seconds.
- By default, n is 7 seconds.
- To validate this function, you must reboot the FWT.

Method 2: Dial all the digits of the number plus one “#”. In this way, the FWT will immediately dial the number. For example, if you want to dial the telephone number “4503421”, you can dial all the digits of the number plus “#” (4503421#).

Note:

- The dial interval between two consecutive numerals cannot not exceed the wait time for auto-dial-out of the FWT. Otherwise, the phone number will be automatically dialed out.
 - When you use some supplementary services, you may dial the numbers started with “*” or “#”, such as “#36*”. In these cases, you can dial the number by using method 1 with the wait time for auto-dial-out as non-0.
3. Wait for several seconds after dialing. When the ring-back tone is heard, the connection is set up. If the busy tone is heard, the attempt of setting up the connection fails because of a busy line or other reasons. In this case, hook on, wait for a while, and hook off to redial.
 4. Enter the session state.
 5. Hook on to terminate the session.

Answering Calls

Make sure to hook on the telephone in place when you do not make calls, so that you can receive calls.

1. The telephone rings. If both the telephone and the network support the Calling Line Identification Presentation (CLIP), the telephone will display the calling number upon the second ring tone (for more information, consult the carrier). If you pick up the telephone before hearing the second ring tone, you cannot see the calling number.
2. Hook off to set up the session.
3. Hook on to terminate the session.

Adjusting the Voice Volume

You can adjust the voice volume when the telephone is either in standby state or in session state. Four volume levels (1 to 4) are available, with level 1 being the lowest and level 4 the highest.

Follow these steps to adjust the voice volume.

Adjusting the Volume When the Telephone Is in Standby State

1. Hook off and you can hear the dial tone, which means that the telephone service is available now.
2. Press “##1” to adjust the volume.
3. To get the desired volume, press the key 1 through 4 that respectively represents the volume levels 1 through 4.
4. After selecting the desired volume, press the “*” key to save it. If you hear the confirmation tone of a “toot”, you have successfully set the volume level.
5. You can hear the dial tone again, which means that the FWT has returned to the off-hook state, and you can proceed to make a call or perform other settings.

Note:

If you hear the reject tone of “toot, toot” when setting the volume, you have pressed an incorrect key and this setting attempt fails. The system will return to the off-hook state, and you can retry to make the setting after hearing the dial tone again.

Adjusting the Voice Volume in an Ongoing Session

1. If you are in a session with the remote party, you can press ##1 to adjust the volume.
2. To obtain the desired volume, press the key 1 through 4 that respectively represent the volume levels 1 through 4, and you can hear the voice changing during the talk.
3. After selecting the desired volume, press the “*” key to save it. If you hear the confirmation tone of a “toot”, you have successfully set the volume level.
4. Keep in session state.

Note:

If you hear the reject tone of “toot, toot” when setting the volume, you have pressed an incorrect key and this setting attempt fails. However, the session state will still be kept, and you can perform operations from Step 1 to Step 4 to adjust the volume again.

5

Advanced Functions

Supplementary Services

The FWT supports the supplementary services. To use the supplementary services, you need the carrier to enable them. For details, consult the network carrier. Here, only several typical services are listed for your reference.

- Three-Way Calling
- Call Transfer
- Call Forwarding
- Emergency Call

Internet Services

The FWT can also help you access the Internet. For details, consult your service provider.

Facsimile Function and Usages

Connect the facsimile set and the FWT correctly according to “Connecting the FWT to a Facsimile Set” and confirm the normal operation state according to “Booting” , and then you can send or receive a facsimile.

Note:

- The facsimile function requires the network support. For details, consult the carrier.
- The success rate of sending or receiving a fax is related to the performance of the network.
- To avoid errors, do not perform other services when sending or receiving a facsimile.
- Here, only the brief introduction of using the facsimile set is given. The operation also depends on the brand and type of different facsimile sets. For details, refer to the instructions of relevant facsimile sets.

Sending a Facsimile

1. Dial the fax number of the called party on the facsimile set, with “##0” before the number and “*” after the number. For example, if the fax number is 6540123, dial “##06540123*”.
2. After hearing the sound of “toot”, press send button in the facsimile set to send a fax (supposing the called party is configured the auto-receive mode).

Note:

It is suggested that the called party configure auto-receive mode. If the called party has configured manual-receive mode, refer to the corresponding description of the facsimile set.

Receiving a Facsimile

1. Dial “##36*” on the facsimile set to access “facsimile mode”.
2. A sound of “toot” indicates that the FWT is in facsimile mode and the fax can be received.
3. The following two methods can be taken to exit from “facsimile mode”:
 - Dial “##30*” on the facsimile set. After hearing the sound of “toot”, FWT is exited from “facsimile mode”.
 - Restart the FWT and it will exit from “facsimile mode”.

After exit from “facsimile mode”, you can use the FWT to make or answer a call normally.

Note:

- You can make a call or send a fax after configuring the FWT to “facsimile receive mode”, but you cannot answer a call.
- In some network conditions, the FWT supports the voice-to-facsimile function, that is, you can perform operation through the normal mode for sending and receiving a facsimile. For example, to send a facsimile, you can directly dial the desired number without the need to add “##0” before the number and “*” after the number. Moreover, to receive a facsimile, you also do not need to access “facsimile receive mode”. Consult your carrier about whether your network supports this function.

6

Troubleshooting

The FWT is not connected to an external power adapter. Switch on the FWT, but the battery LED is still off.

Open the battery container to check whether the battery is installed.

If the battery is installed, the problem may result from low power supply of the battery. In this case, you need to connect the terminal with the external power adapter.

Connect the power adapter to the FWT, switch on the FWT, but the power LED remains off.

If the output voltage of the power adapter cannot meet the requirements of the FWT, this problem may occur. In this case, check whether the AC input is correct.

Switch on the FWT, the power LED is in normal state, but all signal strength LEDs are off.

Check whether the antenna is correctly installed.

If an outdoor antenna is used, place the antenna at a higher position, or adjust the antenna direction (only necessary for the directional antenna).

The signal strength LED is in normal state, but no dial tone is heard after off hook.

See “Connecting the FWT to a Telephone” to check the connection between the telephone set and the FWT.

The voice is unstable and discontinuous.

Check how many signal strength LEDs are on. If less than two LEDs are on, the network signal is weak. Use an outdoor antenna or move the FWT to a position with stronger signal.

The signal intensity strength may be led by environmental interference. For details, consult the carrier.

The volume is too loud or too low.

The FWT has four levels of volumes, and you can adjust them by following the instruction of “Adjusting the Voice Volume in an Ongoing Session”.

The facsimile cannot be received.

See “Receiving a Facsimile” to configure the FWT to “facsimile receive mode”.

Answering a call fails.

You cannot answer a call if the FWT is in “facsimile receive mode”. See “Receiving a Facsimile” to exit from this mode first.

Sending a facsimile fails (pressing the send key after hearing the sound of “toot”)

It may be caused by the following reasons:

1. The network signal is weak.
2. You have dialed a wrong fax number.
3. The called party has configured manually receiving mode but not started receiving.
4. The line is busy.

The handfree function cannot be used.

If an FWT is connected with two phones at the same time, and one phone is in use, the other phone’s handfree function may not work. You can use the handset.

7

FWT

Description of ETS1000 Series

Series	Model	Description
ETS1000 Series	ETS1000/ ETS1001	It operates in 450MHz band. ETS1001 can support G3 analog facsimile function but ETS1000 cannot.
ETS1200 Series	ETS1200/ ETS1201	It operates in 800MHz frequency channel. ETS1201 can support G3 analog facsimile function but ETS1200 cannot.
ETS1500 Series	ETS1500/ ETS1501	It operates in 1900MHz frequency channel. ETS1501 can support G3 analog facsimile function but ETS1500 cannot.