

**GSM Fixed Wireless
Terminal
FCT-400 (M35)
User Manual**



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Welcome to use the GSM Fixed Wireless Terminal FCT-400(M35 version).

Please read this simple guidance. Further detailed information is given in this manual.

1. Summary

GSM Fixed Wireless Terminal FCT-400 is a mobile terminal for telecommunication operators to develop fixed telephone services. It takes the advantages of the wide coverage of mobile communication network and convenient installation to meet the fast increasing requirement of users.

The product is particularly suitable for telecommunication operators to entry the common fixed telephone market. With easy installation and high efficiency, it can be widely applied in

1. Various enterprises
2. Institutes
3. Movable carriers
4. Places of interest/ scenic spots
5. Large exhibitions
6. Consulting meetings
7. Others

It is used where telephone lines are unavailable or very limited. The installation is easy and rapid and can be put into use as soon as within mobile network, while can solve problems of line deficiency and temporary telecommunication.

It can be connected to common phones via GSM network, providing a service compared favorably to fixed phones, and producing a communication effect similar to that of fixed phones. And the minimum separation generally be used is at least 20cm.

This Wireless Terminal is mainly applied within the coverage of GSM cellular network.

2. Main function

- ◆ GSM cellular network outgoing.
- ◆ GSM cellular network incoming.
- ◆ DTMF/FSK Caller ID.
- ◆ Support secondary dial.
- ◆ Send polarity reversal signal for billing meter while connection.
- ◆ USB Interface, performing firmware upgrading via special USB cable & tool connecting PC.
- ◆ Rechargeable Lithium battery, keep conversation for at least 2~3 hours when out of mains power supply.

3. Interference

All wireless devices may get interference which could affect performance.

Please make sure that your device is in service, and pay attention to conditions as follows.

Topic	Description
Hospital	Follow any regulations or rules. Switch the device off near medical equipment.
Aircraft	Wireless devices can cause interference. Using them on aircraft is illegal.
Fuel	Don't use the device at a refueling point. Don't use near fuel or chemicals
Blasting	Don't use the device where blasting is in progress. Observe restrictions, and follow any regulations or rules.
Children	Keep your device in a safe place and keep it in out of small children's reach. Children could hurt themselves or others and they may damage the device.

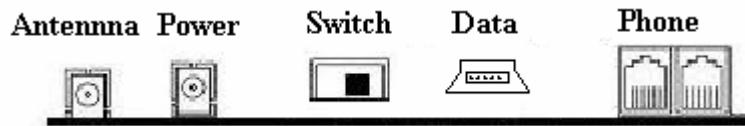
4. Notice List

	Description
1	Don't attempt to repair the device by yourself. Only qualified service personnel could install or repair the device.
2	Do not tie the antenna with the telephone line during use. Otherwise it could cause interference and affect connection quality.
3	Please install the antenna 1 meter faraway from the device or other sensitive electron device. If the antenna is damaged, do not use it any more. You can contact the franchiser to repair it.
4	Do not use unqualified antenna or try to modify any part of the device.
5	To avoid noise interference, use an anti-EMI phone if possible.
6	If the device installed rechargeable battery, please recharge for at least 24 hours before the first use. If the device is in "Turn Off" state, it do not recharge to the battery.
7	Please use the device stand to the manual.
8	Use the provided USB data cable for connecting internet. (Optional)

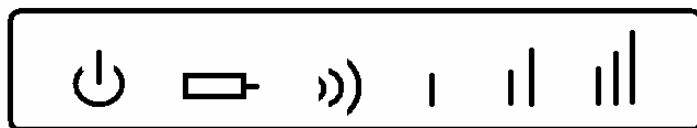
5. Installation

5.1. Interface

The back of the device as below:



5.2. Indicator lights



There are 6 indicator lights in the terminal device. From left to right in turn, it is:

1. Power indicator lights (Adapters)
2. Power indicator lights (Battery)
3. Status indicator lights
4. Signal Strength 1
5. Signal Strength 2
6. Signal Strength 3

5.3. Signification of Indicator lights

	Indicator Light	Description
1	Signal Strength 1 flash one times Signal Strength 2 flash one times Signal Strength 3 flash one times	Startup

2	Power Light constantly on	Power normal
3	Power Light constantly off	Power un-normal
4	Power indicator lights (Adapters) Off Power indicator lights (Battery) On	Power supply by battery
5	When not in conversation: Signal Strength 1 flash Signal Strength 2 flash Signal Strength 3 flash	No SIM card or SIM card installed incorrectly
7	Signal Strength 1 flash	Searching for network
11	Signal Strength 1 constantly on Signal Strength 2 constantly off Signal Strength 3 constantly off	Signal Strength very lower
12	Signal Strength 1 constantly on Signal Strength 2 constantly on Signal Strength 3 constantly off	Signal Strength Medium
13	Signal Strength 1 constantly on Signal Strength 2 constantly on Signal Strength 3 constantly on	Signal Strength High
14	Signal Strength 1 flash	No SIM.
15	Signal Strength 2 flash	SIM with PIN lock.
16	Signal Strength 3 flash	Telephone On-Hook

5.4. Installation

A. Set the device in a place with well ventilation, dryness, few dust, no electromagnetic interference. And make sure that your device is in GSM network's service area.

B. Install GSM SIM card



1. OPEN THE SIM CARD HOLDER BY PUSHING BACK THE SIM

CARD HOLDER TO THE LEFT



2. OPEN UP THE SIM CARD HOLDER BRACKET AND PUT THE SIM CARD ON THE HOLDER



3. PUSH TO THE RIGHT TO LOCK THE SIM CARD HOLDER

Open the cardholder in the way as the “Open” arrow shows, and put the SIM card on the right position. Make sure that the chip interface is facing downwards with the cut corner of the sim card in a correct way.

Close the cardholder and lock it in the way as the “lock” arrow shows.

Close the cover, and tighten the screws.

C. Install antenna

Screw the head from the antenna on the device (antenna connector). Do not put the two too close.

- D. Connect the telephone and the device (any one phone jack). Place the phone set away from the antenna to avoid interference.
- E. If you want to use a billing meter, connect it with the telephone and the device. For connection to a user PBX, connect it with the device by trunks.
- F. Attach the lead from the adapter carefully to any one of the power-socket on the back of the device. Connect the power adapter to an AC 120V outlet.
- G. Switching on, and then the device startup, it will enter into work state after searching for network.
- H. Make sure that the device is currently in service. If the signal strength is very lower, maybe the network is currently not available. You may be in a bad reception area. If possible, move the machine to a different location.

6. How to use

6.1. Making Calls

1. Connecting a normal telephone with telephone cable to the Fixed Wireless Terminal's RJ11 phone port. Take up the handset of the phone and a dialing tone will be heard. Dial phone number from keypad of telephone.
2. In order to shorten the network access time, you can dial the [#] key as a

speed dial key. If no more number is dialed within 4 seconds, the numbers just inputted will be dialed out automatically.

3. Talk after connected. (If the billing meter is connected, it will display the phone number you have dialed, and start to bill once the number is connected.)
4. On-Hook, after finished the conversation.

6.2. Answering a call

When there is an incoming call, the phone set will ring. Take up the handset to speak.

7. Command Table

All commands are listed as below. Connect a telephone set to the device. Take up the handset and dial the command number, then, hang up to finish the operation. After finished setting a command, hang up, and then Pickup the handset to set another command.

NO.	Command	Function	Description
1、	**9AAA..*NN#	Setting quick sending out dialing digits command (maximum 16 groups).	AAA.. , pre-fix NO (maximum 6 digits) NN, dialing digits length (2 digits) For Example **913*11# pre-fix 13 number, if reaches 11 digits, then sending out. **90755*12# pre-fix 0755 number, when dialing 12 digits sending out immediately.

2、	**9AB#	Setting sending out dialing digits command of default.	AB dialing digits length (2 digits) For Example **915# when dialing the number (beyond the past define), if reach 15 digits, then sending immediately.
3、	**8AAA..#	Delete the quick dialing setting	AAA.. delete the quick dialing pre-fix numbers **8**# delete all the quick dialing setting
4、	**7N#	Set incoming call ringing	N=2, incoming call ringing, ringing 2 seconds and stop 4 seconds N=1, incoming call ringing, ringing 2 seconds and stop 2 seconds N=0, incoming call ringing, ringing 1 seconds and stop 4 seconds
5、	**6N#	Set dialing tone frequency	N=3, dialing tone 400Hz N=2, dialing tone 425+450Hz N=1, dialing tone 350+440Hz N=0, dialing tone 450Hz
6、	**5N#	Set Caller ID (CID)	N=1, Caller ID as FSK format N=0, Caller ID as DTMF format
7、	**4N#	Set Reverse Polarity signal	N=1, Providing Reverse Polarity signal N=0, Not providing Reverse Polarity signal
8、	**3NM#	Set talking volume during the call	N=0-9, FWT receiving volume M=0-9, FWT sending volume
9、	**2N#	Set simulating ring-back tone after dialing	N=1, Providing simulating ring-back tone N=0, Not providing
10、	#*91#	Version & signal strength enquiry	First 2 digits of signal strength + Last 6 digits of version
11、	#*92#	IMEI number enquiry (1)	Return first 6 digits of IMEI
12、	#*93#	IMEI number enquiry (2)	Return last 9 digits of IMEI
13、	#*94#	IMEI number enquiry (3)	Return all digits of IMEI

8. Problem and Solution

Problem	Possible cause and solution
Can not startup	Check Power: 1. Whether the adapter installed and connected correctly. 2. If the terminal installed battery, check whether the electrical voltage is enough.

No Dial Tone	<ol style="list-style-type: none"> 1. It will keep for about 1 minute for startup. After searching network, it enters into work state. 2. Check whether the phone line is connected correctly. 3. Whether the SIM card is valid.
Dialed, but can not outgoing.	<ol style="list-style-type: none"> 1. Whether the SIM card is valid. 2. If you connected a billing meter, check whether it is the billing meter forbid the outgoing.
If you cannot remove the problem by this solution, Please contact with franchiser or manufacturer.	

9. FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation