



Technical Specification Of GSM Fixed Wireless Terminal

FCT-400

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1 General introduction

FCT-400 GSM Fixed Wireless Terminal has been designed to operate with the latest GSM digital communication technology. The GSM technology has many advanced features and provides excellent voice quality.

2 Appearance and Structure

Item	FCT-400	Remark
Outlook		
Material	ABS (Acrylonitrile Butadiene Styrene)	
Size	125*125*38mm	Excluding antenna
Weight	0.4Kg	Weight of Main unit
Power Switch	Rocker switch	
Power Socket	DC input	
Phone interface	RJ11	

3 Functions

3.1 Basic Functions

Item	Description	Remark
Calling	Make calls	
	Receive calls	
	Delay number send	
	Call forwarding	Network support required
	Three-way calling	Network support required
	Call waiting	Network support required
	Signal indication	

Indication	Battery state indication Hook Off/On State indication	No display
Volume	Ring volume is adjustable	Yes
	Handset volume is adjustable	Yes

3.2 Advanced Functions

Item	Description	Remark
SIM card	Must insert SIM card	SIM-card voltage is 3v
Data	Support GPRS data access	
PC Fax	Not Support PC fax	
Caller ID	DTMF Caller ID	
Billing Signal	Send polarity reversal signal, or 12/16KHz pulse signal for billing meter	
Security	Lock/Unlock Card Lock/Unlock Terminal Lock/Unlock Network	

3.3 Product Models

Model	Explanation	Remark
FCT-400	GSM 900/1800MHZ or GSM 850/900/1800/1900MHZ	

4 Technical Specifications of FCT-400

4.1 RF Receive sensitivity

RF receive sensitivity Frequency	Receive sensitivity
GSM850	< -106dBm
E-GSM900	< -106dBm
DCS1800	< -104dBm
PCS1900	< -104dBm

4.2 RF receive/transmit frequency

Frequency	Receive	Transmit
GSM850	869 ~ 894MHz	824 ~ 849 MHz
E-GSM900	925 ~ 960MHz	880 ~ 915MHz
DCS1800	1805 ~ 1880MHz	1710 ~ 1785MHz

PCS1900

1930 ~ 1990MHz

1850 ~ 1910MHz

4.3 Antenna gain

Item	parameter	
Gain(dBi)	GSM	DCS
	0.5	1
Pattern	Omnidirectional antenna	

4.4 Others

No	Item	Value	Remarks
1	Power	≤ 2 W	
2	Sensitivity	-104dB	
3	Power Consumption	Static ≤ 25 mA, Transmit ≤ 600 mA	
4	Ambient noise	≤ 60 dB	
5	Interface standard	RJ11phone jack; SMA antenna interface.	
6	SLIC parameter	Return loss: >24 dB Weighted Noise: Representative value -75dB	
7	Ring current voltage	Representative value 90VP-P	
8	Feed Current	23mA-35mA	
9	On-hook voltage	48V	
10	Max Loop resistance	1000 Ω	
11	Dial tone frequency	450Hz continuous	
12	Busy tone frequency	450Hz 0.35s/0.35s	
13	DTMF Receive	> -23 dB insure receiving	
14	DTMF Receive sensitivity	$> 99.99\%$	
15	Insertion loss	≤ 0.5 dB	

4.5 Working Condition

Working temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Storage temperature: $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$

Humidity: <95%

5 Technical Specifications for Accessories

5.1 Power Adapter

1. Standard configuration Power Adapter

Item		Technical Spec.
Type		transformer mode power supply
Input	Voltage	AC110~240V
	Frequency	47Hz~63Hz
	Max.input current	<300mA
Efficiency		≥78%
Output	Voltage	9VDC
	Max.current	800mA

2. Optional configuration Power Adapter

Item		Technical Spec.
Type		Switch mode power supply
Input	Voltage	AC110~240V
	Frequency	47Hz~63Hz
	Max.input current	<300mA
Efficiency		≥78%
Output	Voltage	12VDC
	Max.current	1A

5.2 Battery

Item	Technical Spec	Remark
Type	Ni-MH	
Capacity	1200 mAh	
Voltage	3.6V	
Talk time	>2hr	Signal strength is -75dBm
Standby time	>48hr	Signal strength is -75dBm

Charging time	<10hr	
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6 A Complete Set of Product

NO.	Name	Model	Q'ty	Remark
1	GSM FWT	FCT-400	1	
2	Antenna		1	
3	Power adapter		1	Input AC: 110~240V, Output DC: 12V
4	Ni-MH battery		1	1200mAH or 1800mAH is optional, in FWT
6	USB data cable		1	Optional
7	User' Manual		1	1
8	Modem Driver CD		1	Optional

Dimension:

125*125*35mm/pcs

1kg/pcs

510*355*200mm/carton

10pcs/carton

8KG/carton(Europe switching power adapter)