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Specification of F5



Change History

AUTHOR	REVISION	CHANGES	APPROVAL	DATE
Oliver Liu	R1.0	Initial Draft	Jason Ding	2009-2-22
Oliver Liu	R2.0	Working frequency band is changed from Band A to Band F	Jason Ding	2009-3-20
Oliver Liu	R2.3	Change battery capacity is changed from 800mAH to 900mAH	Jason Ding	2009-5-15

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1 Introduction

The Terminal F5 type Hand Held, is a terminal telephone wireless with style fashion and very compact model, which to more fulfilling all the technical characteristics and functionalities required for a normal telephone line POTS, it incorporates certain applications that are own only in mobile phone, which turn to him a unique wireless terminal telephone in its type, very versatile and easy to install and that it can adapt to diverse conditions where it is not possible to take care of with the traditional telephony.

Main Features

- The F5 Hand Held terminal fulfills the functions and common parameters of a common telephone line and its signals (Call Tone, Busy Tone, Ring Back Tone and Ringer Signal, Hang/Off-hook action detection, etc.).
- Easy and flexible to install, so they are applicable in remote areas of sparse population where a traditional cable access system has difficulty, with a less investment so that network operators can take back their cost in shorter time.
- It supports multiple interfaces, through which users can connect external devices with the terminal, thus providing subscribers with high-quality voice service, packet data service, PC fax.
- The structure of Hardware and Software of terminal F5 Hand Held is made up of several modules and sub-modules that execute the different functions and applications developed to fulfill the different requirements and conditions necessities to adapt to the standard of network CDMA2000 1X and its protocol.
- It's provided with a mini USB interface for the provision of data services, used in addition for the maintenance and configuration of the terminal.
- It offers reliable and fancy features like voice call, SMS, MP3, VIDEO, FM, Camera, Directional microphone, Black list, Hands Free, etc.

The appearance of the F5 Hand Held Terminal is as below figure:



2 Abbreviations, Acronyms and Definitions

Abbreviations	Complete Words
CDMA	Code Division Multiple Access
CDG	CDMA Development Group
UIM	User Identifier Module
BS	Base Station
MO	Mobile Originates
MT	Mobile Terminated
MCU	Microprocessor control unit
USB	Universal Serial Bus
ESD	Electronic Static Discharge
DTMF	Dual Tone Multi-Frequency

3 Mechanical Specification

Items	Description
Form factor	Bar Type
Color	Black
Size	105mm*45mm*18mm (L*W*H)
Weight	80g(with battery)
Plastic	ABS

Charging, Earphone and Data Socket	Mini USB (Software application for PC connection included)
UIM Slot	Reserved for optional use
External Memory Slot	Yes

4 Hardware Specification

Items		Description
Frequency band		CDMA 450 MHz, BLOCK F Uplink:479.000MHz-483.480MHz ; Downlink: 489.000MHz to 493.480MHz
CDMA standard		CDMA2000 1x (backward compatible to IS-95)
Data Service		Rate up to 153.6 kbps
Speech codec		8K QCELP, 8KEVRC
System memory		128MbitsNOR flash + 64Mbits SRAM
External memory card		Up to 2G Bits (The terminal includes by default an external memory 1GB)
LCD	Type	TFT
	View area size	1.8"
	Color	262K colors, TFT
	Resolution	128 * 160
	Backlight	White
	Touch panel icon	NO
Antenna	Type	Internal Antenna
	Maximum Transmitting Power	23 dBm
	Minimum Transmitting Power	-50dBm
	Rx Sensitivity	Better than -106dBm
Camera		300K pixels (VGA)
MP3		Yes
VIDEO		Yes, 3GP
FM		Yes
Vibrator		Yes
Speaker		Speaker and Receiver Two in One
Directional microphone		Yes
Receiver		Speaker and Receiver Two in One
I/O connector		Yes, Mini USB
Battery		Li-ion , 900MAh
Charger		Input: 100-240V 50-60HZ, 150mA Output: 5V, 500mA
Standby time		> 100 Hours (Depends on network)
Talk time		> 2.5Hours (Depends on network)

Charging time	< 4 Hours
Operating temperature	-20°C-55°C
Storage temperature	-40°C- 85°C
Humidity	0 -95 %
Static Protection	Contact discharge 4KV, Air discharge 8Kv
Software license	Yes (Software use license included)

5 Software Features

Call function	
Items	Description
Caller ID	Yes
Call records	50s Missed +50s Answered +50s Dialed
Answer mode	Answer key, Any key
Time alert	Yes
Auto redial	Yes
Conference calling	Yes, Up to 3 parties
Call holding	Yes
Call divert	Yes
Call waiting	Yes
Call barring	Yes
Quickly dial	Yes
Black list	Yes
Hands free	Yes
Message function	
Items	Description
Message type	■SMS □ MMS □EMS □others
SMS capacity	500
Group message	Yes ,10
Pre-text	Yes, 10
Extract numbers	Yes
Voice mailbox	Yes
Broadcast message	Yes
Phonebook	
Items	Description
Phonebook capacity	500
Allowable field	Name, Phone number1 , Phone number2, Home

	number, Office number, Fax number, Other number, Email address, Address name, URL address, Ring, Caller group	
Caller group	6 groups: Friends, Family, VIP, Business and Group1 (customized) with Group2 (customized)	
MTV/Caller video	No	
Quickly search	Yes	
Copy between mobile and SIM card	Yes	
Phone settings		
Items	Description	
Date & time setting	Yes	
Language	Spanish, English	
Wallpaper	Yes, BMP	
Screen saver	No	
Power on/off animation	Yes	
Hot key setting	Yes	
UIM lock	Yes	
Phone lock	Yes	
Keypad lock	Yes	
Power on /off	Yes	
Menu function lock	No	
Personal settings		
Items	Description	
User profiles	Yes, five profiles: General, Outdoor, Meeting, Car, Silent	
Ringer	32Polyphonic tones, Pre-installed 8pcs,Format MIDI	
Key tone	Yes	
Message alert tone	Yes	
Ring type	Yes	
LCD backlight	Brightness setup	Yes, 5 Levels
	Contrast	Yes, 5 Levels
	Time setup	Yes, 7-45s
Quick silent	Yes	
PIM & Fun		
Items	Description	

Calendar	Yes
Memo	Yes
Alarm clock	Yes,
World clock	Yes
Calculator	Yes
Stopwatch	Yes
Internet Access	
Items	Description
PC Modem	Yes

6 Software License

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7 Reference Technical Standard

1	C.S0011-A Recommended Minimum Performance Standards for CDMA2000 Spread Spectrum Mobile Stations
2	TIA/EIA/IS-95-A Mobile Station-Base Station Compatibility Standard for Dual-Mode Spread Spectrum Systems
3	TIA/EIA/IS-127 Enhanced Variable Rate Codec, Speech Service Option 3 for Wideband Spread Spectrum Digital Systems
4	TIA/EIA/IS-637 Short Message Services for Wideband Spread Spectrum Digital Cellular Systems
5	TIA/EIA/IS-657 Packet Data Services for Wideband Spread Spectrum Digital Cellular Systems
6	TIA/EIA/IS-820 Removable User Identity Module (R-UIM) for Spread Spectrum Systems
7	TIA/EIA/IS-2000-1 Introduction to cdma2000 Standards for Spread Spectrum Systems
8	TIA/EIA/IS-2000-2 Physical Layer Standard for cdma2000 Spread Spectrum Systems
9	TIA/EIA/IS-2000-3 Medium Access Control (MAC) Standard for cdma2000 Spread Spectrum Systems
10	TIA/EIA/IS-2000-4 Signaling Link Access Control (LAC) Standard for cdma2000

	Spread Spectrum Systems
11	TIA/EIA/IS-2000-5 Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems

8 Packing list:

The ATELF5 Hand Held terminal kit consists of:

Item	Description	Qty
1	Main Body(With internal antenna) *	1
2	Battery	1
3	Adaptor	1
4	USB Data Cable	1
5	Earphone	1
6	CD with technical information & Manuals	1
7	External memory capacity of 1GB	1
8	User Manual(Spanish)	1

* By requirements of the customer, in the back of terminal will be included the inscription "USO EXCLUSIVO ETAPA EP CUENCA"