HUAWEI ETS8521 Cordless Phone

Product Description

HUAWEI ETS8521 Cordless Phone
Product Description

Manual Version: 01 (2007-11-01)

Product Version: V100R001

BOM   31027578

Huawei Technologies Co., Ltd. provides customers with comprehensive technical support and service. Please feel free to contact our local office or company headquarters.

Huawei Technologies Co., Ltd.

Address: Administration Building, Huawei Technologies Co., Ltd.,

  Bantian, Longgang District, Shenzhen, P. R. China

Postal Code: 518129

Website: http://www.huawei.com

Trademarks

and other trademarks are the property of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this manual are the property of their respective holders.

Notice

The information in this manual is subject to change without notice. Every effort has been made in the preparation of this manual to ensure accuracy of the contents, but all statements, information, and recommendations in this manual do not constitute the warranty of any kind, express or implied.

Table of Contents

Chapter 1 Product Overview

1.1 Introduction

HUAWEI ETS8521 Cordless Phone is a Code Division Multiple Access (CDMA) cordless phone working on the band of 1900 MHz. It is a bar-type and low-end Cordless phone with an exquisite appearance. It provides the basic voice service and short message service (SMS). Contact entries and short messages can be saved in both the Cordless phone and the user identity module (UIM) card. The Cordless phone can work in either of the following two modes: Read Only Memory-User Identity Module (ROM-UIM) and Removable User Identity Module (R-UIM).

1.2 Appearance

Figure 1-1 shows the appearance of the ETS8521 Cordless Phone.

Figure 1-1 ETS8521 Cordless Phone appearance

1.3 Features

1.3.1 Main Features

- Strong signal
- Large volume
- 12-chord polyphonic ring
- Large-capacity phone book storage
- SMS function
- Speed dial function
- Keypad and LCD Backlight
- Key-pad lock
- Low battery alarm

1.3.2 Other Features

- SMS group sending
- Alarm
- Calculator and stopwatch
- Calendar
- Games

Chapter 2 Specifications

2.1 Physical Specifications

Table 2-1 lists the physical specifications of the ETS8521 Cordless Phone.

Table 2-1 Physical specifications

Item		Specification
Phone Dimensions (L × W × H)		130 mm× 48.6 mm× 22.7 mm
Base Dimensions (L × W × H)		155mm× 113mm× 93mm
Weight		About 90 g (including the battery)
Shape		Bar-type
Antenna		External
UIM		Can work in either the R-UIM mode or the ROM-UIM mode
Charger		Input: 100~240V Output: 5.3 V/650 mA
Representative Power Consumption		Representative Talk Power Consumption:1.05w Representative Standby Power Consumption:20mw
Battery	850 mAh Li-ion	Standby time: 100 h~150 h (depending on the network) Talk time: 120 min~150 min (depending on the network)
Display	Pixel	128 × 64
	Liquid crystal display (LCD) type	Film Super Twisted Nematic (FSTN) bright color film
	Color	Black and white
	LCD size	26.8cm x 24.6cm

2.2 Working Environment

Table 2-2 lists the requirements on the working environment of the ETS8521.

Table 2-2 Working environment

Item	Specification
Ambient temperature – operation	-10℃ to +55℃
Ambient temperature – storage and transportation	-20℃ to +70℃
Humidity	5% to 95%

2.3 Performance Specifications

Table 2-3 lists the performance specifications of the ETS8521.

Table 2-3 Performance specifications

Item	Specification
Frequency band	Transmission: 1851~1909MHz Reception: 1931~1989MHz
Polyphonic ringtones	12-chord
Voice rate	8K Enhanced Variable Rate Coder (EVRC)
Language	English

2.4 Certifications

Table 2-4 lists the certifications of the ETS8521.

Table 2-4 Certifications

No.	Item	Tested By
1		
2		
3		
4		
5		
6		
7		

2.5 RF Specifications

2.5.1 RF Transmission Specifications

Table 2-5 lists the RF transmission specifications of the ETS8521.

Table 2-5 RF transmission specifications

No.	Item	Specification
1	Maximum transmission power	≥23.0 dBm/1.23MHz

2.5.2 RF Reception Specifications

Table 2-6 lists the RF reception specifications of the ETS8521.

Table 2-6 RF reception specifications

No.	Item	Specification
1	Reception sensitivity	-104dBm/1.23MHz or less (FER=0.5% with 95% confidence)
2	Inter-modulation performance	-36.5 dBm
3	Single tone desensitization	-25.0 dBm

2.6 Packing List

Table 2-7 lists the standard packing items of the ETS8521.

Table 2-7 Standard packing items of the ETS8521

No.	Item	Quantity
1	Cordless phone	1
2	Battery	1
3	Charger	1
4	User Manual	1
5	Base	1
6	Warranty Card	1
7	Certificate of Quality	1

Chapter 3 Main Functions

The main functions of the ETS8521 are as follows:

- SMS
- Phonebook
- Shortcut keys
- Polyphonic ringtones
- Applications
- Over-the-Air Service Provisioning (OTASP)
- Over-the-Air Parameter Administration (OTAPA)
- Supplementary services

3.1 SMS

The ETS8521 allows you to send, receive and group-send messages. The phone also supports pre-defining phrases.

In the ROM-UIM mode, the ETS8521 can save up to 100 messages. The inbox, outbox, and voice mail box share the memory.

In the R-UIM mode, the ETS8521 can save up to 100 messages. You can also save messages in the UIM card and the number of messages that can be saved depends on the capacity of the UIM card.

3.2 Phonebook

The ETS8521 provides a large-capacity phonebook.

In the ROM-UIM mode, you can save up to 500 contacts to the phone.

In the R-UIM mode, you can save up to 500 contacts to the phone. You can also save contacts to the UIM card. The number of contacts that can be saved depends on the capacity of the UIM card.

3.3 Shortcut Keys

You can use shortcuts keys to speed-dial a phone number, mute/unmute a call or lock/unlock the keypad.

3.4 Polyphonic Ringtones

The ETS8521 provides 12-chord polyphonic ringtones.

3.5 Applications

The applications provided by the ETS8521 include calculator, alarm clock, calendar and games.

3.6 OTASP

The ETS8521 supports the performance specifications for OTASP in TIA/EIA/IS-683A. You can initialize the number assignment module, data options, and operation

parameters. You can also generate and verify the authentication keys and program the preferred roaming list.

3.7 OTAPA

The ETS8521 supports the performance specifications for OTAPA in TIA/EIA/IS-683A. The network can initialize the upgrading operations, individual number assignment module, data options, operation parameters, and the specific parameters of both the service provider and the manufacturer. The network can also upgrade the preferred roaming list, generate and verify the authentication keys, as well as add and upgrade the parameters for future services.

3.8 Supplementary Services

The ETS8521 supports several supplementary services, including call waiting, call forwarding, voice encryption and multi-party conference call.

Chapter 4 Function List

Table 4-1 lists all the functions of the ETS8521.

Table 4-1 Function list of the ETS8521

Item	Sub-item	Remarks
Dial and call	Any-key answer	-
	Dial the recently dialed number	-
	Make a call through the phonebook	-
	Speed-dial	Supports 9 phone numbers
	Make an emergency call	-
Call history	Missed calls	The Cordless phone can keep a maximum of 20 records for each of the missed calls, received calls and dialed calls.
	Received calls	
	Dialed calls	
	Call duration	Record the duration of the last call, received calls, dialed calls, and all records.
Phonebook	Capacity	ROM-UIM: The phone memory can save up to 500 contact entries. R-UIM: The number of contact entries that can be saved in the UIM card depends on the capacity of the UIM card, but the phone software can read only 200 contact entries of the UIM card.
	Contact	Phone: Each contact entry contains a name and three phone numbers. UIM card: Each contact entry contains a name and a phone number.
	Group	Support up to 10 groups.

Item	Sub-item	Remarks
Messages	Capacity	ROM-UIM: Up to 100 messages can be saved in the phone. The memory is shared by the inbox, outbox, and voice mail box. R-UIM: Up to 100 messages can be saved in the phone. The number of messages that can be saved in the UIM card depends on the UIM card capacity, but the phone software can read only 50 messages of the UIM card.
	Write messages	Support the function of pre-defining messages.
	Send a message through the phonebook	-
	Group-send a message	Support up to 10 groups and 10 members per group.
Shortcut keys	Phone lock	-
	Mute	-
	View the phonebook	-
	View the inbox	-
	Write a message	-
	Calendar	-
	View the dialed calls	-
	Alarm clock	-
Applications	Alarm	You can set up to 5 alarms at one time and specify the duration for each alarm.
	Calculator	-
	Calendar	You can define the calendar for alert.
	Games	-
	Stopwatch	-
	World time	-
	Profile	Support the following modes: Silent mode General mode
Alert	Call alert	Support the following modes:

Item	Sub-item	Remarks
	SMS receiving alert	Ring No ring Ring
	Low battery alert	-
	Calendar alert	-
	Keypad tones	-
Display	LCD contrast	-
	LCD backlight	White
	Set the period of LCD backlight	-
	Keypad backlight	Blue
Time	Date/Time	Three modes of date display: dd/mm/yy, mm/dd/yy and yy/mm/dd. Two modes of time display: 12 hour and 24 hour.
Security	Personal identification number (PIN) lock	Available only in the R-UIM mode
	Factory restore	-
Call settings	Call duration	-
	Call waiting	-
	Call forwarding	-
	50 seconds alert	-
	Headset Auto answer	-
Visual indicator	Battery level	-
	Charging	-
	Low power	-
	Received Signal Strength Indicator (RSSI)	-
	Dialing	-
	Insufficiency space for new messages	-
	Unread messages	-
	Missed calls	
	Alarm clock	

Item	Sub-item	Remarks
	Keypad lock	-

Chapter 5 Acronyms and Abbreviations

C

CDMA | Code Division Multiple Access

CSTN | Color Super Twist Nematic

E

EMC | Electromagnetic Compatibility

EVRC | Enhanced Variable Rate Coder

L

LCD | Liquid Crystal Display

O

OTAPA | Over-the-Air Parameter Administration

OTASP | Over-the-Air Service Provisioning

P

PIN | Personal Identification Number

R

RF | Radio Frequency

ROM | Read Only Memory

RSSI | Received Signal Strength Indicator

R-UIM | Removable User Identity Module

S

SAR | Specific Absorption Rate

U

UIM | User Identity Module