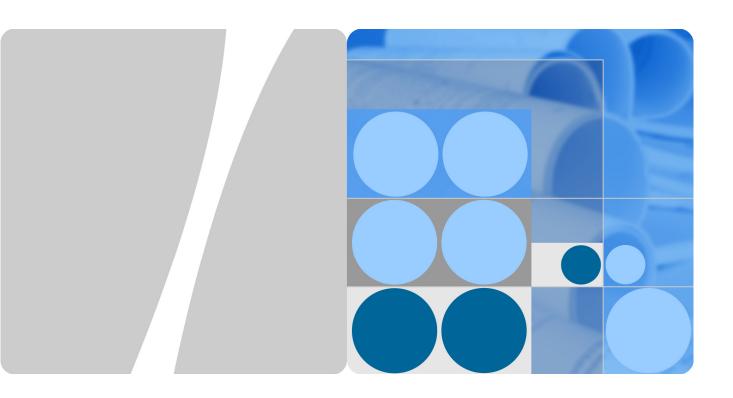
Product Description



HUAWEI E5573Cs-322 Mobile WiFi V200R001

Issue 01

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About This Document

Summary

This document provides information about the major functions, supported services and system architecture.

The following table lists the contents of this document.

Chapter	Details
1 Overview	The supported network modes, basic services and functions, and the appearance of the product.
2 Features	The supported features and technical specifications of the product.
3 Services and Applications	The services and applications of the product.
4 System Architecture	The architecture of the product.
5 Packing List	The items contained in the package of the product.



History

Issue	Details	Date
01	First release.	2016-04-12



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Overview

1.1 Brief Introduction

HUAWEI E5573Cs-322 Mobile WiFi (hereinafter referred to as the E5573Cs-322) is a high-speed packet access mobile hotspot. It is a multi-mode wireless terminal for SOHO (Small Office and Home Office) and business professionals.

The E5573Cs-322 supports the following standards:

- Long Term Evolution (LTE) Frequency Division Duplex (FDD)
- Dual Carrier High Speed Packet Access Plus (DC-HSPA+)
- High Speed Packet Access Plus (HSPA+)
- High Speed Uplink Packet Access (HSUPA)
- High Speed Downlink Packet Access (HSDPA)
- Universal Mobile Telecommunications System (UMTS)
- Enhanced Data rates for Global Evolution (EDGE)
- General Packet Radio Service (GPRS)
- Global System for Mobile communications (GSM)

The E5573Cs-322 provides the following services:

- LTE FDD packet data service
- DC-HSPA+ packet data service
- HSPA+/HSPA/UMTS packet data service
- EDGE/GPRS packet data service
- Short Message Service (SMS)

You can connect the E5573Cs-322 with the USB interface of a computer, or connect the E5573Cs-322 with the Wi-Fi. In the service area of the LTE FDD/DC-HSPA+/HSPA+/HSPA/UMTS or EDGE/GPRS/GSM network, you can surf the Internet and send/receive messages/emails cordlessly. The E5573Cs-322 is fast, reliable, and easy to operate. Thus, mobile users can experience many new features and services with the E5573Cs-322. These features and services will enable a large number of users to use the E5573Cs-322 and the average revenue per user (ARPU) of operators will increase substantially.

Figure 1-1 shows the profile of the E5573Cs-322.



Figure 1-1 E5573Cs-322 profile



1.2 Optional Features

Optional features refer to features that are not supported by the standard version or are disabled by default. These features can be customized according to operator or customer requirements. The E5573Cs-322's optional feature is as follows:

- IPv6/IPv4 dual stack (optional)
- Dual SSID (optional)



2 Features

2.1 Main Features

The E5573Cs-322 mainly supports the following features:

- LTE FDD (DL) data service of up to 150 Mbit/s
- LTE FDD (UL) data service of up to 50 Mbit/s
- DC-HSPA+ (DL) data service of up to 43.2 Mbit/s
- HSPA+ (DL) data service of up to 21.6 Mbit/s
- HSDPA (DL) data service of up to 14.4 Mbit/s
- HSUPA (UL) data service of up to 5.76 Mbit/s
- UMTS data service of up to 384 kbit/s
- EDGE data service of up to 236.8 kbit/s
- GPRS data service of up to 85.6 kbit/s
- PS domain data service based on LTE/UMTS/GSM
- SMS based on LTE/UMTS/GSM
- Built-in LTE/UMTS/GSM and WLAN high gain antenna
- Wi-Fi 2.4 GHz
- LTE/3G/Wi-Fi auto offload
- Support for HUAWEI HiLink App
- Press and Play
- IPv6/IPv4 dual stack (optional)
- Built-in DHCP Server, DNS RELAY and NAT
- Online software upgrade
- Traffic statistic
- Standard Micro USB interface
- 2D Barcode easy connection
- Windows 7, Windows 8, Windows 8.1, Windows 10 (does not support Windows RT),
 MAC OS X 10.7, 10.8, 10.9, 10.10 and 10.11 with latest upgrades



2.2 Technical Specifications

2.2.1 Hardware

Table 2-1 lists the hardware specifications.

Table 2-1 Hardware specifications

Item	Specification	ons	
Technical standard	WAN: LTE FDD/DC-HSPA+/HSPA+/HSPA/UMTS/EDGE/GPRS/GSM		
	WLAN: IEEE 802.11b/g/n		
Operating frequency	LTE: FDD B1/B3/B7/B8/B20		
	DC-HSPA+/HSPA+/HSPA/UMTS: B1/B8		
	EDGE/GPRS/GSM: B2/B3/B5/B8		
	WLAN: 2.4 GHz		
Internal memory	128 MB Fla	sh, 128 MB DDR SDRAM	
Maximum	LTE: Conform to Power Class 3 Definition		
transmitter power	UMTS: Conform to Power Class 3 Definition		
	WLAN	802.11b: 14 dBm	
		802.11g: 11 dBm	
		802.11n: 10 dBm	
Receiver	LTE: Confo	rm to 3GPP Requirements	
sensitivity	UMTS: Conform to 3GPP Requirements		
	WLAN	802.11b: -76 dBm@11 Mbit/s	
		802.11g: -65 dBm@54 Mbit/s	
		802.11n: -64 dBm@65 Mbit/s	
WLAN speed	802.11b: Up to 11 Mbit/s		
	802.11g: Up to 54 Mbit/s		
	802.11n	HT20: Support MCS0–MCS7; Up to 72.2 Mbit/s. Support MCS8–MCS15; Up to 144.4 Mbit/s. HT40: Support MCS0–MCS7; Up to 150 Mbit/s. Support MCS8–MCS15; Up to 300 Mbit/s.	
Maximum power consumption	3.5 W		



Item	Specifications
Power supply	AC: 100–240 V
	DC: 5 V, 1 A
Battery	Type: Li (rechargeable)
	Capacity: 3.8 V, 1500 mAh
	Maximum working time: 6 hours (depending on the network)
	Maximum standby time: 300 hours (depending on the network)
External	Micro USB interface
interfaces	Standard 6-pin SIM card interface
Indicators	LED indicators: Signal, Battery
Key-press	Power switch, RESET switch
Antenna	Built-in LTE/UMTS/GSM main antenna
	Built-in LTE/UMTS diversity antenna
	Built-in WLAN antenna
Dimensions (W × D × H)	96.8 mm×58.0 mm×12.8 mm
Weight	about 75 g (including the battery)
Temperature	Operating: 0°C to +35°C
	Storage: -20°C to +60°C
Humidity	5% to 95% (non-condensing)



2.2.2 Software

Table 2-2 lists the software specifications.

Table 2-2 software specifications

Item	Description
SMS	 Writing/Sending/Receiving Sending/Receiving extra-long messages Storage: Up to 500 messages can be saved in the internal memory of the E5573Cs-322.
Network connection setup	APN management: create, delete and edit. Set up network connection
WLAN setup	 SSID broadcasting and hiding None (Open), WEP, WPA2-PSK, and WPA/WPA2-PSK encryption Automatic adjustment of ratios Display STA status Turn off Wi-Fi automatically WLAN MAC filter
Firewall setup	 Firewall Switch LAN IP Filter Virtual Server DMZ Service UPnP Service
NAT setup	CONE NAT Symmetric NAT ALG
DHCP setup	 DHCP server enabling and disabling Address pool of the DHCP server setup DHCP lease time setup
Software installation	Automatic installation
LTE/3G/Wi-Fi auto offload	Accessing to WAN via LTE/3G or Wi-Fi Automatic offload between LTE/3G and Wi-Fi
IPv6/IPv4 dual stack (optional)	 DHCPv6/v4 server and client DNSv6/v4 server and client Display IPv6/v4 WAN address
Other	Network connection settings: • Automatic network selection and registration • Manual network selection and registration



Item	Description	
	Network status display: signal, operator name, system mode, and so on.	
	LTE network switch: turn on/off LTE network	
	PIN management: activate/deactivate PIN, PIN lock, changing PIN, unblocking by using the PUK.	
System requirement	Windows 7, Windows 8, Windows 8.1, Windows 10 (does not support Windows RT)	
	• Mac OS X 10.7, 10.8, 10.9, 10.10 and 10.11 with latest upgrades	
	Your computer's hardware system should meet or exceed the recommended system requirements for the installed version of OS	



3 Services and Applications

3.1 Data Service

3.1.1 Wireless Modem

The E5573Cs-322 can be used as a wireless modem when the Wi-Fi is enabled. You can directly use the default settings (or configure APN on the E5573Cs-322 Web page) and set up a wireless network connection. Then you can access the Internet.

A maximum of sixteen wireless users can access the E5573Cs-322 at the same time. You can set up the WLAN with the access point (AP) function.

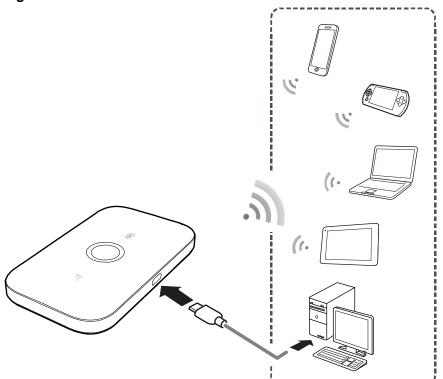


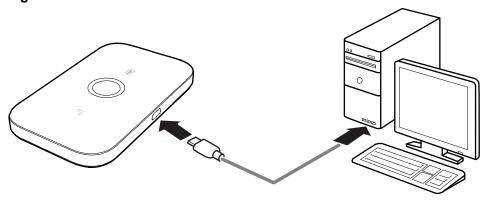
Figure 3-1 Multi-device access via Wi-Fi and USB at the same time



3.1.2 USB Modem

After you connect the E5573Cs-322 and PC with a USB data cable, the Web page is displayed on the PC desktops automatically. You can directly use the default settings (or configure APN on the E5573Cs-322 Web page) and set up a network connection. Then you can send or receive E-mail, access the network through wireless connection, and download files through wireless data channels.

Figure 3-2 One-device access via USB



3.1.3 LTE/3G/Wi-Fi Auto Offload

The E5573Cs-322 allows you to access the Internet via LTE, 3G or Wi-Fi. When you are using the E5573Cs-322 in areas with a Wi-Fi hotspot, for example, an airport, a cafe, a hotel, or your home, the E5573Cs-322 switches to Wi-Fi connection automatically, saving your LTE/3G network traffic fees.

Figure 3-3 LTE/3G/Wi-Fi auto offload



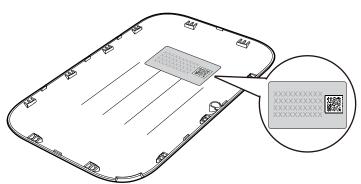
3.2 **SMS**

The E5573Cs-322 supports message writing/sending/receiving. You can manage messages through the Web page, such as an inbox, an outbox and a draft.



3.3 Connecting an Android Device to the E5573Cs-322 Using a 2D Barcode

If you are using an Android device and has the HUAWEI HiLink App installed, you can quickly connect your device to the E5573Cs-322 to access the Internet by scanning a 2D Barcode on the E5573Cs-322 label.



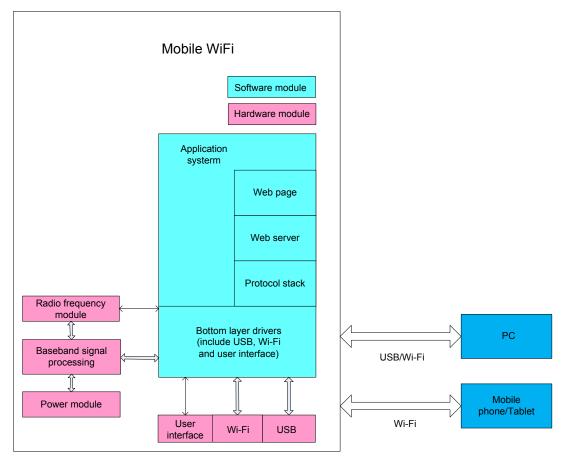


4 System Architecture

4.1 System Architecture

Figure 4-1 shows the system architecture.

Figure 4-1 System architecture





4.2 Functional Modules

- Radio frequency module: It sends/receives radio signals and modulates/demodulates the radio frequency (RF) signals and baseband signals
- Baseband signal processing: It processes LTE FDD/DC-HSPA+/HSPA+/UMTS/EDGE/GPRS/GSM baseband digital signals, including:
 - Modulating/Demodulating LTE FDD/DC-HSPA+/HSPA+/UMTS/EDGE/GPRS/GSM baseband signals
 - Encoding/Decoding LTE FDD/DC-HSPA+/HSPA+/UMTS/EDGE/GPRS/GSM channel
- Bottom layer driver: It drives peripherals, including a USB device, Wi-Fi devices, indicators, buttons and a SIM card.
- Protocol stack system: It processes protocols of LTE FDD/DC-HSPA+/HSPA+/UMTS/EDGE/GPRS/GSM and TCP/IP.
- 5. **Application system:** It provides management system, including SMS, PS domain service, Wi-Fi configuration, network service, Web service and Web page. The user can set management parameters by Web page.
- 6. **User interface:** It provides human-computer interaction, including indicators and buttons.



5 Packing List

This chapter describes the items contained in the package of the E5573Cs-322.

Table 5-1 lists the items contained in the package of the E5573Cs-322.

Table 5-1 Packing list of the E5573Cs-322

Item	Quantity	Remarks
Mobile WiFi	1	Standard
Rechargeable Battery (1500 mAh)	1	Standard
USB Cable (about 17 cm)	1	Standard
Quick Start	1	Standard
Safety Information	1	Standard
Charger	1	Optional
Warranty Card	1	Optional



A

Acronyms and Abbreviations

3G The Third Generation

AES Advanced Encryption Standard

ALG application level gateway

APN access point name

ARPU average revenue per user

ASCII American Standard Code for Information Interchange

DHCP Dynamic Host Configuration Protocol

DMZ demilitarized zone

DNS Domain Name Server

EDGE Enhanced Data Rates for GSM Evolution

FDD frequency division duplex

GPRS General Packet Radio Service

GSM Global System for Mobile Communications

HSPA+ High Speed Packet Access Plus

HSUPA High Speed Uplink Packet Access

HSDPA High Speed Downlink Packet Access

IEEE Institute of Electrical and Electronics Engineers

IP Internet Protocol

LCD Liquid Crystal Display

LTE Long Term Evolution

MAC Medium Access Control

Modem Modulator Demodulator

NAT Network Address Translation



OS Operating System

PC personal computer

PIN personal identification number

PnP Plug and Play

PS packet switched

PUK PIN unblocking key

SIM subscriber identity module

SMS short messaging service

SOHO small office home office

SSID Service Set Identifier

TFT Thin Film Transistor

TKIP Temporal Key Integrity Protocol

UMTS Universal Mobile Telecommunications System

UPnP Universal Plug and Play

USB Universal Serial Bus

WAN wireless area network

WEP wired equivalent privacy

Wi-Fi Wireless Fidelity

WLAN wireless local area network

WPA Wi-Fi Protected Access