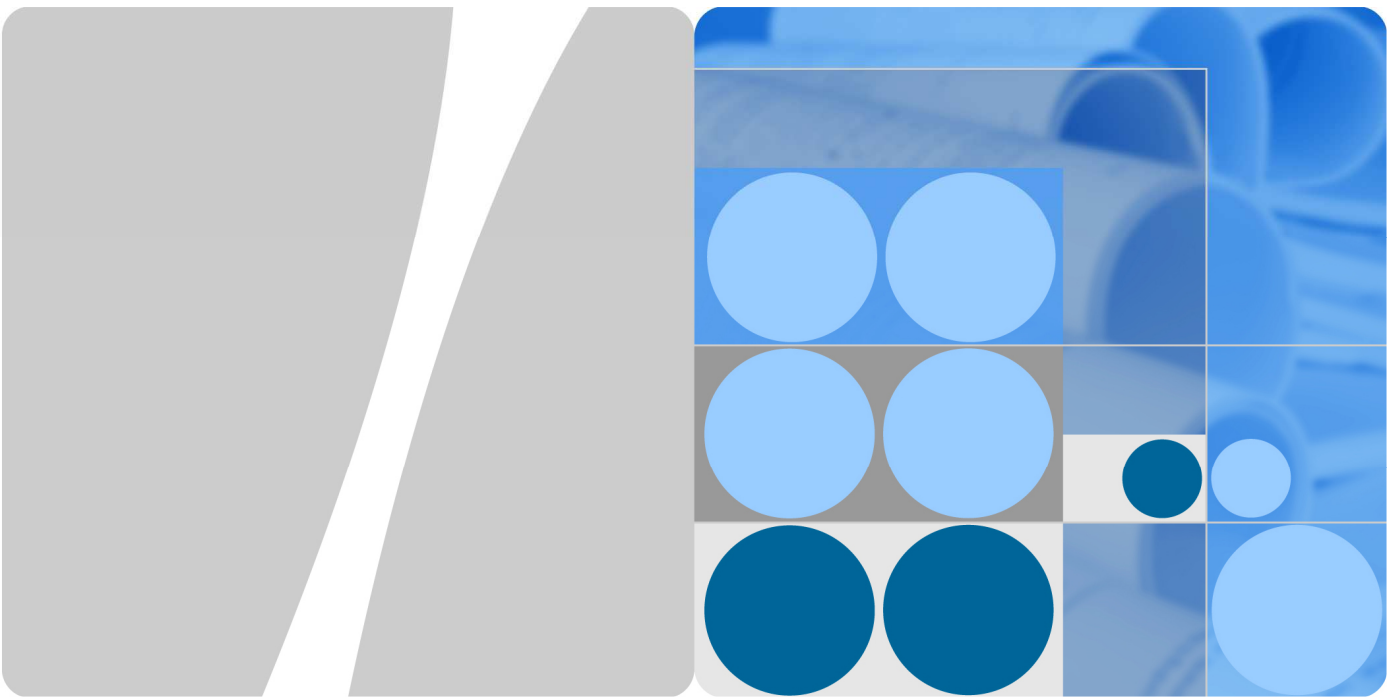


Product Description



E3372-325 LTE Dongle
V100R001

Version 01
Date 2022-05-15

brovi

ZOWEE TECHNOLOGY (HEYUAN) CO., LTD.

Trademarks and Permissions

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

Notice

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

ZOWEE TECHNOLOGY (HEYUAN) CO., LTD.

Address: Runye Precision Manufacturing Industrial Park,among the north of Xiangjing Road , the west of Xinpi Road and the south of Yangzi Road,located in the high-tech zone, HeYuan City, Guangdong Province

About This Document

Summary

This document provides information about the major functions, supported services, and system architecture of E3372-325 LTE Dongle.

The following table lists the contents of this document.

Chapter	Describes
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 Packaging Box Items	The items contained in the package of the product.
6 Appendix	Supported LTE bandwidths



NOTE

The document is an invitation to offer but not an offer. It is intended to describe the general features and functions of a product. The features and functions of certain products may vary with the requirements of customers.

History

Version	Details	Date
01	First release	2022-05-15

Contents

1 Overview	6
2 Features	8
2.1 Main Features	8
2.2 Technical Specifications	8
2.2.1 Hardware	8
2.2.2 Software	10
3 Services and Applications	11
3.1 Data Service	11
3.2 SMS	11
4 System Architecture	12
4.1 System Architecture	12
4.2 Functional Modules	13
5 Packaging Box Items	14
6 Appendix	15
7 Acronyms and Abbreviations	16

1 Overview

E3372-325 LTE Dongle as a high speed network access terminal product. It is a multi-mode wireless terminal for SOHO (Small Office and Home Office) and business professionals, in order to meet the requirement from different operators.

The E3372-325 supports the following frequency bands:

- LTE: B1/B3/B7/B8/B20/B28/B38/B40
- HSPA+/HSPA/UMTS: B1/B8

The E3372-325 supports the following standards:

- Long Term Evolution (LTE)
- High-Speed Packet Access Plus (HSPA+)
- High Speed Uplink Packet Access (HSUPA)
- High Speed Downlink Packet Access (HSDPA)
- Universal Mobile Telecommunications System (UMTS)

The E3372-325 provides the following services:

- LTE FDD packet data service
- HSPA+ packet data service
- HSDPA packet data service
- HSUPA packet data service
- UMTS packet data service
- LTE/UMTS SMS service

You can connect the E3372-325 with the USB interface of a computer.

In the service area of the LTE/HSPA+/UMTS network, you can surf the Internet and send/receive messages/emails cordlessly. The E3372-325 is fast, reliable, and easy to operate. Thus, mobile users can experience many new features and services with the

E3372-325. These features and services will enable a large number of users to use the E3372-325 and the average revenue per user (ARPU) of operators will increase substantially.

2 Features

2.1 Main Features

The E3372-325 mainly supports the following features:

- LTE FDD data service of up to DL 150Mbit/s/UL 50Mbit/s
- **HSPA+** data service of up to 21Mbit/s (64QAM)
- **HSDPA** data service of up to 14.4Mbit/s
- **HSUPA** data service of up to 5.76Mbit/s
- Support LTE/UMTS SMS service
- Support WebUI management the device
- Support PnP, Plug and Play

2.2 Technical Specifications

2.2.1 Hardware

Table 2-1 Hardware specifications

Item	Specifications
Technical standard	LTE/ HSPA+ / HSPA /UMTS
Operating frequency	LTE : B1/B3/B7/B8/B20/B28/B38/B40 HSPA+ / HSPA /UMTS: B1/B8
External interfaces	One USB 2.0 High Speed (Type A)
	One Mini-SIM card interface

Item	Specifications	
	Two TS-5 External antenna interface	
LED	Indicating the status of the network	
Maximum transmitter power	LTE	+23dBm (Power Class 3)
	HSPA+/HSPA/UMTS	+23dBm (Power Class 3)
Static receiver sensitivity	LTE FDD: Accorded with 3GPP TS 36.101(R9)	
	HSPA+/HSPA/UMTS: Compliant with 3GPP TS 25.101(R9)	
Maximum power consumption	<3.5W	
Dimensions (D × W × H)	88mm x 28mm x 11.5mm	
Weight	<= 35g	
Temperature	Operating: -10°C to +40°C Storage: -20°C to +70°C	
Humidity	5% to 95%	

2.2.2 Software

Table 2-2 software specifications (WebUI)

Item	Description
Basic specifications	• WebUI • Auto connect, auto reconnect • Display the device information by website
PIN management	PIN unlock
SMS	Support SMS read and send
Device information display	• Connection status • Signal strength • Operator name • Network mode • Roam status
System requirement	• Windows 7, Windows 8, Windows 8.1, Windows 10 (Does not support Windows RT), Mac OS x 10.12, 10.13, 10.14 and 10.15. • Your computer's hardware system should meet or exceed the recommended system requirements for the installed version of OS
Notes: PIN = personal identification number PUK = PIN unblocking key	

3 Services and Applications

3.1 Data Service

After the E3372-325 is connected to the PC through the USB interface, the E3372-325 will automatically connect to the network. Users can directly use the APN parameters preset on the page (or configure the APN on the E3372-325 web page) and establish a connection to access the Internet.

3.2 SMS

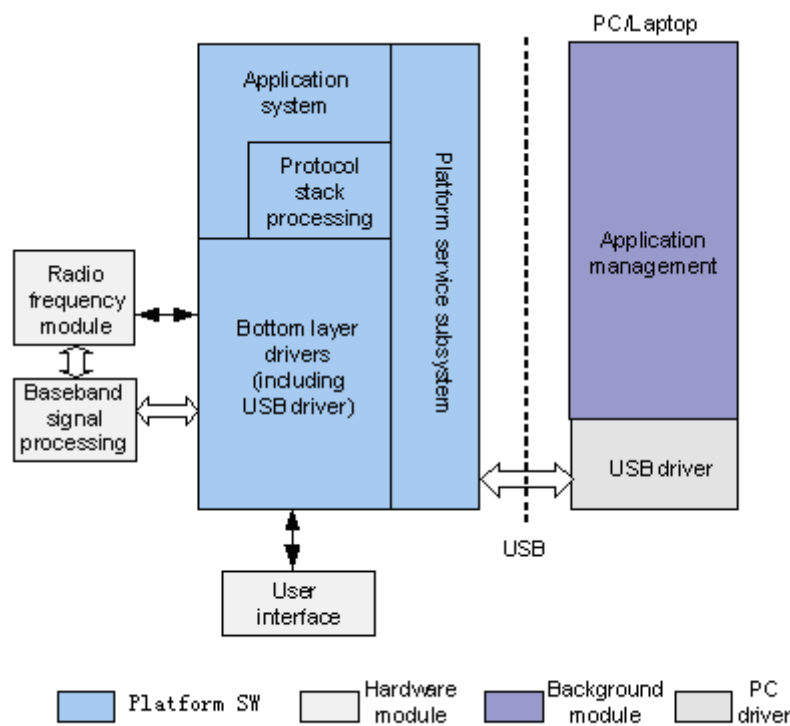
The E3372-325 supports message writing/sending/receiving. The E3372-325's web-based management page provide powerful SMS management functions, including Outbox, Inbox, and Drafts.

4 System Architecture

4.1 System Architecture

Figure 4-1 shows the system architecture of the E3372-325

Figure 4-1 System architecture of the E3372-325



4.2 Functional Modules

1. **Radio frequency module:** Sends/receives radio signals and modulates/demodulates radio signals and baseband signals.
2. **Baseband signal processing module:** Processes **LTE/HSPA+/HSPA/UMTS** baseband signals, including:
 - Modulating/demodulating **LTE/HSPA+/HSPA/UMTS** baseband signals
 - Encoding/decoding **LTE/HSPA+/HSPA/UMTS** channels
3. **Platform Service Subsystem:** It initializes programs, diagnoses the running of the system, downloads data and serves as a watchdog.
3. **Bottom layer driver:** Drives peripherals, including USB devices, LED and USIM/SIM.
4. **Protocol stack system:** Processes protocols of **LTE/HSPA+/HSPA/ UMTS**.
5. **Application system:** Send the laptop's commands to the underlying protocol for processing and return values to the laptop. Existing applications include: call management, SMS management, PS/CS domain service management.
6. **User interface:** Provides an interface for connecting peripheral devices. Interfaces are used for LED indicators and USIM/SIM.
7. **Web Server:** Provides server programs for Web client programs.
8. **Web client application:** The configuration management of the E3372-325 and related services are realized through the WebUI.

5

Packaging Box Items

Table 5-1 lists the items contained in the packaging box of the E3372-325.

Table 5-1 Packaging box items of the E3372-325

Item	Quantity	Remarks
E3372-325 LTE Dongle	1	Standard
Quick Start Guide (Including safety information)	1	Standard
Warranty Card	1	Optional

6 Appendix

Table 6-1 Shows the LTE bandwidths supported by the E3372-325.

Band	Bandwidth					
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
1			√	√	√	√
3	√	√	√	√	√	√
7			√	√	√	√
8	√	√	√	√		
20			√	√	√	√
28		√	√	√	√	√
38			√	√	√	√
40			√	√	√	√

7

Acronyms and Abbreviations

Numerics

3G	The Third Generation
3GPP	3rd Generation Partnership Project

A

APN	Access Point Name
ARPU	Average Revenue Per User

B

BSS	Base Station Subsystem
-----	------------------------

C

CM	Connection Management
CPU	Central Processing Unit
CS domain	Circuit Switched Domain

D

DTM	Dual transfer mode
-----	--------------------

E

EDGE	Enhanced Data Rates for GSM Evolution
EGPRS	Enhanced GPRS

F

FDD	Frequency Division Duplex
-----	---------------------------

G

GERAN	GSM/EDGE Radio Access Network
GPRS	General Packet Radio Service
GSM	Global System for Mobile Communications

H

HSPA+	High Speed Packet Access Plus
HSUPA	High Speed Uplink Packet Access
HSDPA	High Speed Downlink Packet Access

I

IC	Integrated Circuit
----	--------------------

L

LED	Light Emitting Diode
LTE	Long Term Evolution

M

MAC	Medium Access Control
MexE	Mobile Execution Environment
MM	Mobility Management
Modem	Modulator Demodulator
MS	Mobile Station
MSC	Mobile Switching Center

N

NAS	Non-Access Stratum
NDIS	Network Driver Interface Specification

O

OS	Operating System
----	------------------

P

PC/SC	Personal computer/Smart card
PIN	Personal Identification Number
PP	Point-to-Point
PS domain	Packet Switched Domain
PUK	PIN Unblocking Key

R

RF	Radio Frequency
RLC	Radio Link Control
RRC	Radio Resource Control

S

SGSN	Serving GPRS Support Node
SIM	Subscriber Identity Module
SMS	Short Message Service
SNDCP	Subnetwork Dependent Convergence Protocol

T

TR	Technical Report
TS	Technical Specification
TD-SCDMA	Time Division Synchronous CDMA

U

UE	User Equipment
UMTS	Universal Mobile Telecommunications System
USAT	USIM Application Toolkit
USB	Universal Serial Bus
USIM	UMTS Subscriber Identity Module
UTRAN	UMTS Terrestrial Radio Access Network

W

WCDMA	Wideband Code Division Multiple Access
-------	--