



ZXCLOUD iBOX CT220

Quick Start Guide

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R1.2	2014-03-26	Add “2.1, FCC Statement”.
R1.1	2014-02-25	Adds “Chapter 1, Basic Operations”.
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About This Manual

Purpose

This manual describes basic operations, configurations, and system architecture of the ZXCLLOUD iBox system.

Intended Audience

This manual is intended for common users.



What Is in This Manual

This manual contains the following chapters.

Chapter 1, Basic Operations	Describes basic operations on the cloud terminal.
Chapter 2, Introduction to the Cloud Terminal	Describes the functions, components, connections, configurations, power-on/power-off methods, packaging list, and RoHS of the cloud terminal.

Conventions

This manual uses the following conventions.

<i>Italics</i>	Variables in commands. It may also refer to other related manuals and documents.
Bold	Menus, menu options, function names, input fields, option button names, check boxes, drop-down lists, dialog box names, window names, parameters, and commands.
Constant width	Text that you type, program codes, filenames, directory names, and function names.
[]	Optional parameters.
{ }	Mandatory parameters.
	Separates individual parameters in a series of parameters.
	Danger: indicates an imminently hazardous situation. Failure to comply can result in death or serious injury, equipment damage, or site breakdown.
	Warning: indicates a potentially hazardous situation. Failure to comply can result in serious injury, equipment damage, or interruption of major services.
	Caution: indicates a potentially hazardous situation. Failure to comply can result in moderate injury, equipment damage, or interruption of minor services.
	Note: provides additional information about a topic.

Chapter 1

Basic Operations

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1.1 Logging In to the Operating System of a Cloud Terminal



This procedure describes how to log in to the operating system of an iBOX CT320 cloud terminal and perform various operations, for example, browsing Web pages, logging in to a virtual machine, setting the cloud terminal, and diagnosing the system.

Steps

1. Press the iBox power button to start the system. The iBOX desktop is displayed, see [Figure 1-1](#).

Figure 1-1 iBOX Desktop



2. (Optional) Double-click the  icon. The file manager is started for file browsing.
 3. (Optional) Double-click the  icon. The browser is started for Web page browsing.
- End of Steps –

1.2 Logging In to a Virtual Machine or Server

The iBOX CT220 enables you to log in to a virtual machine or remotely access a server.

- If the system access protocol is set to the SPICE or Citrix protocol, you can log in to the operating system of the virtual machine through a cloud terminal. You can log in to and access several virtual machines.
- If the system access protocol is set to the RDP protocol, you can remotely access a server through a cloud terminal.

This procedure uses the SPICE protocol as an example to describe how to log in to a virtual machine.

Steps


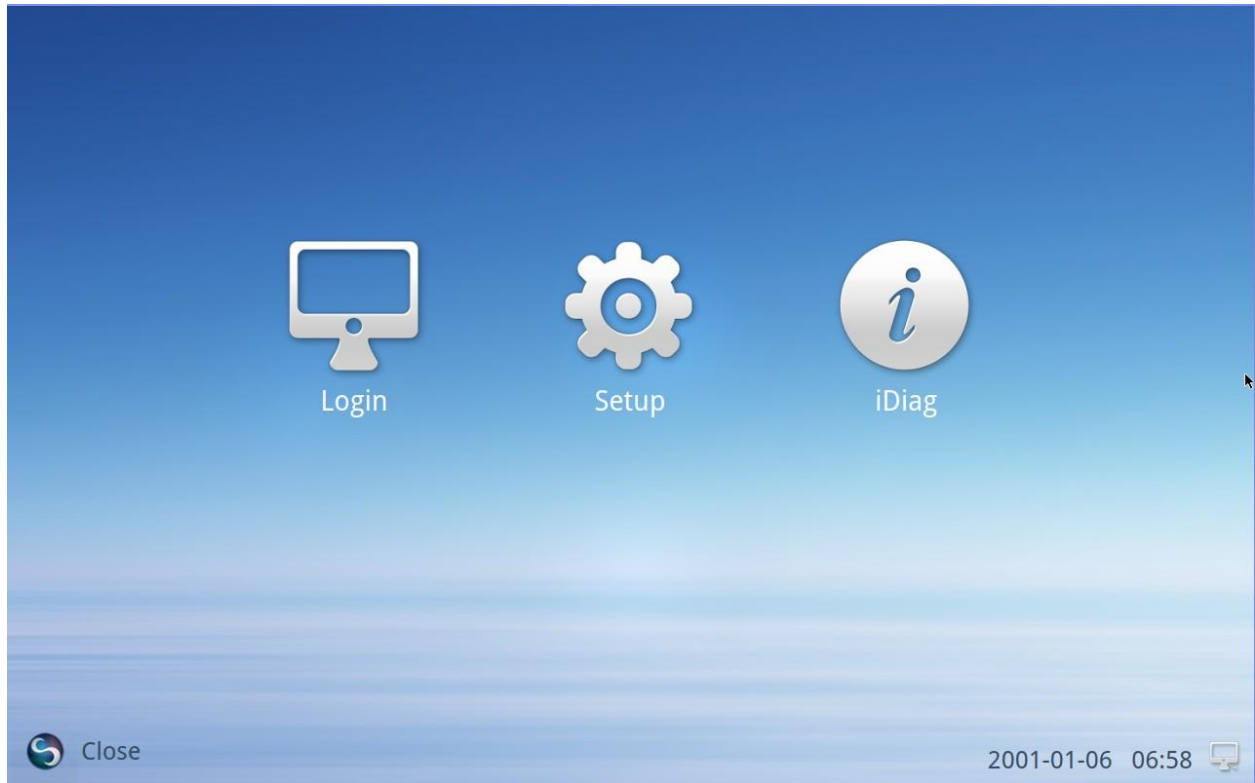
1. Click the  icon on the desktop. The Sighter software is started, see [Figure 1-2](#).

Figure 1-2 ZTE Sighter Dialog Box




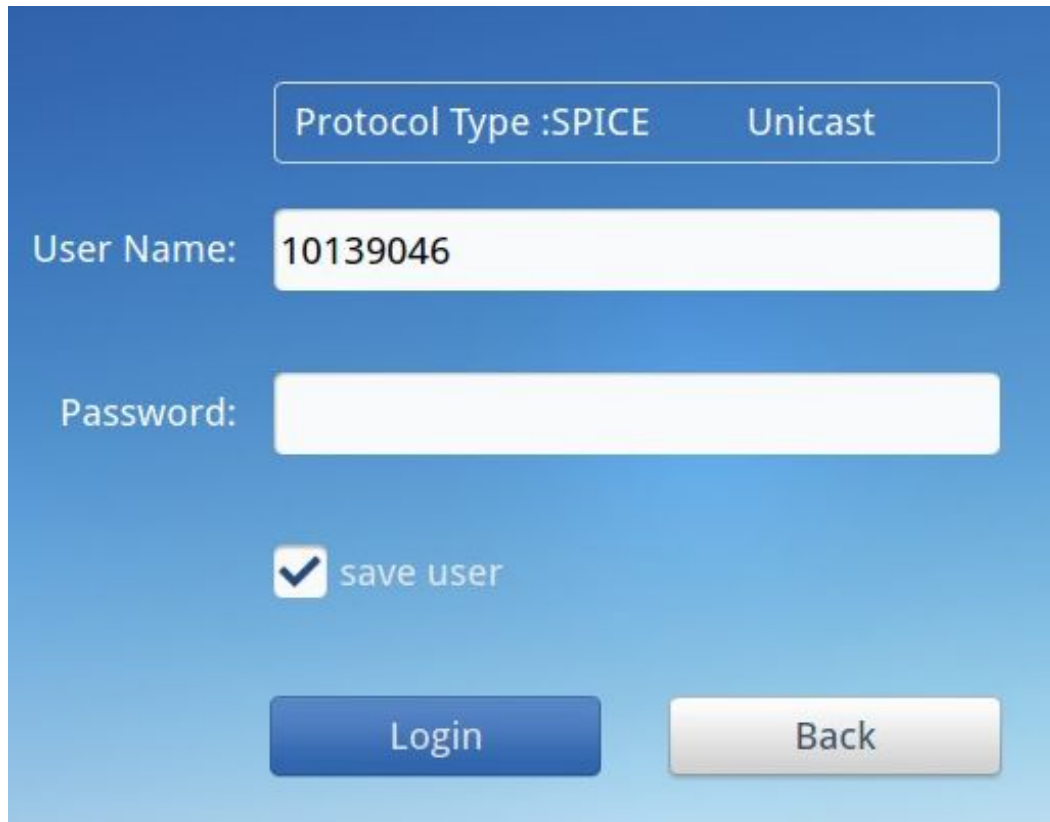
2. Click the  icon. The virtual machine login dialog box is displayed, see [Figure 1-3](#).

Figure 1-3 Virtual Machine Login Dialog Box



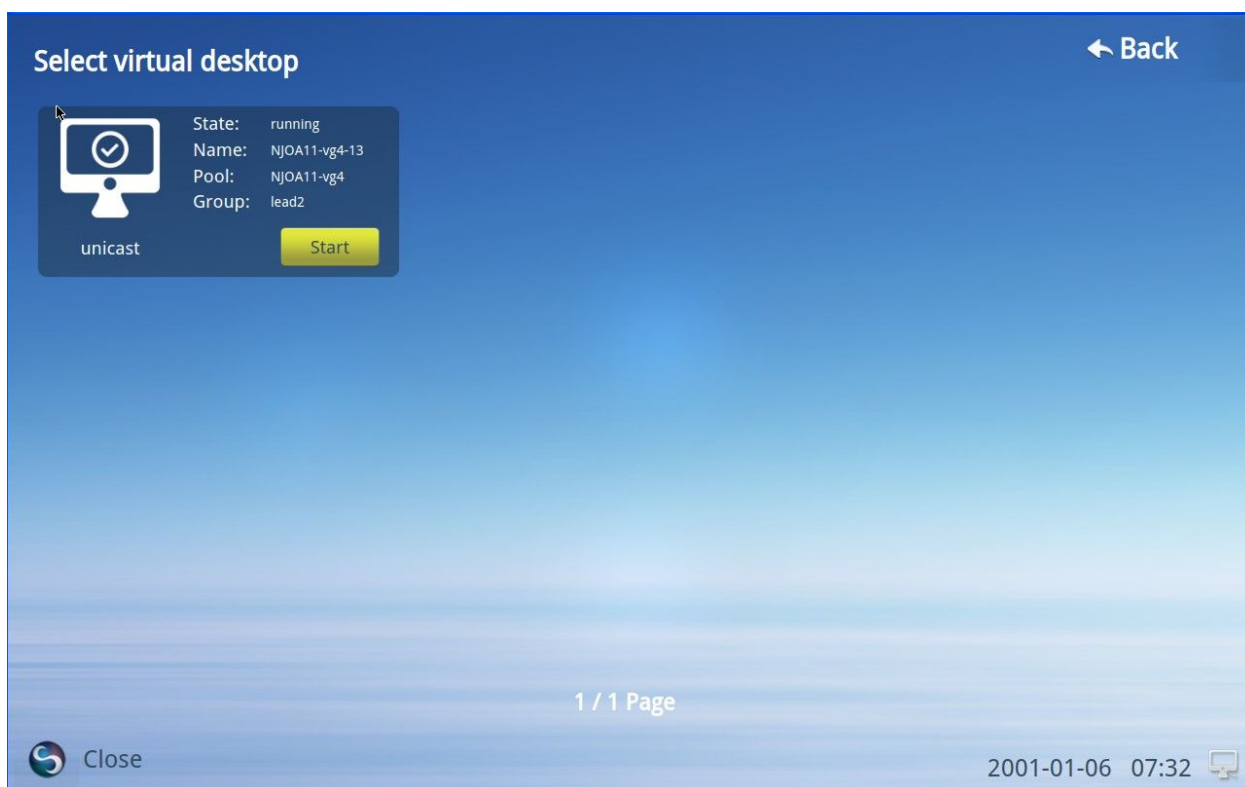
3. Enter the username and password. For a description of the parameters, refer to [Table 1-1](#).

Table 1-1 Parameter Descriptions for the Login Dialog Box

Parameter	Descriptions
User Name	Enter the username to log in to the virtual machine.
Password	The password of the user.

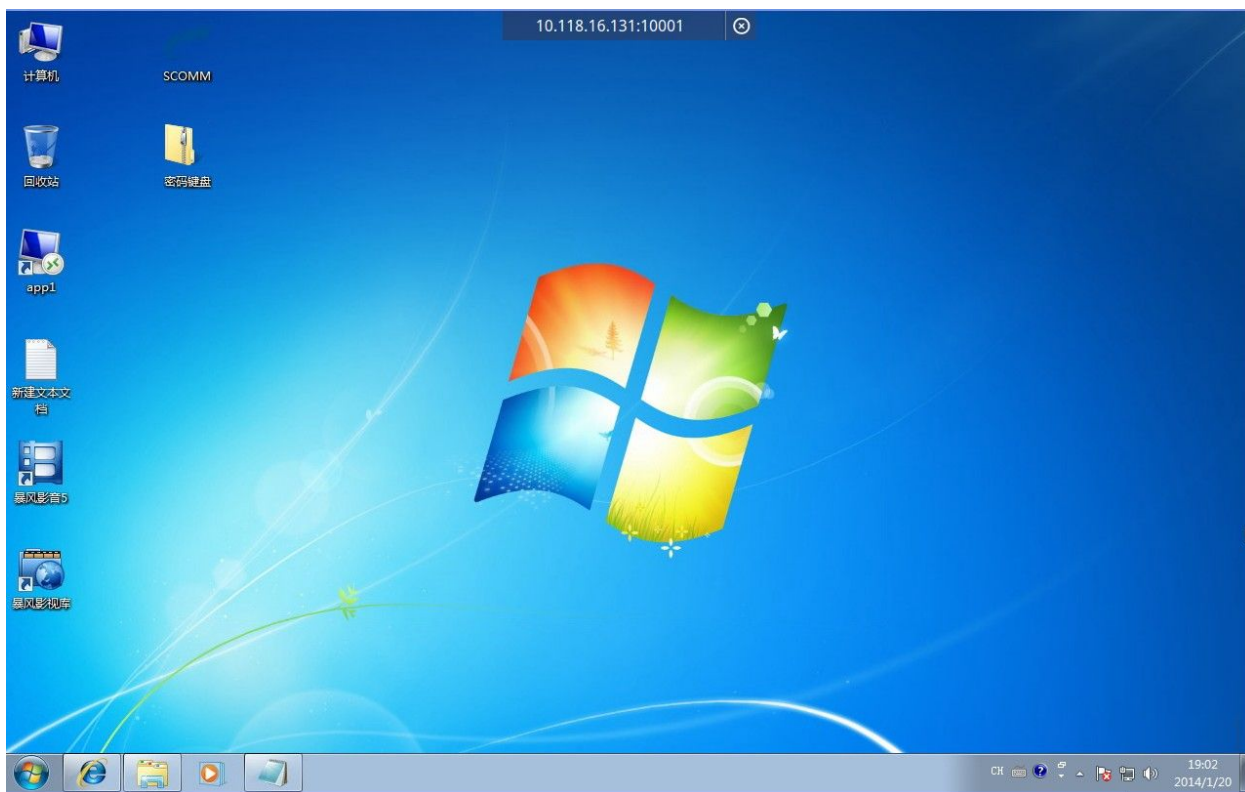
4. Click **Login**. The virtual machine list dialog box is displayed, see [Figure 1-4](#).

Figure 1-4 Virtual Machine List Dialog Box



5. Click the **Start** button of a virtual machine. The desktop of the virtual machine is displayed, see Figure 1-5.

Figure 1-5 Virtual Machine Desktop



6. Click the close button on the toolbar to exit the operating system of the virtual machine , see Figure 1-6.

Figure 1-6 Close Button



– End of Steps –

1.3 Configuring a Cloud Terminal

This procedure describes how to set the system time, local IP address, language, administrator password, and IP address of the gateway server after you log in to the operating system of a cloud terminal.

Steps


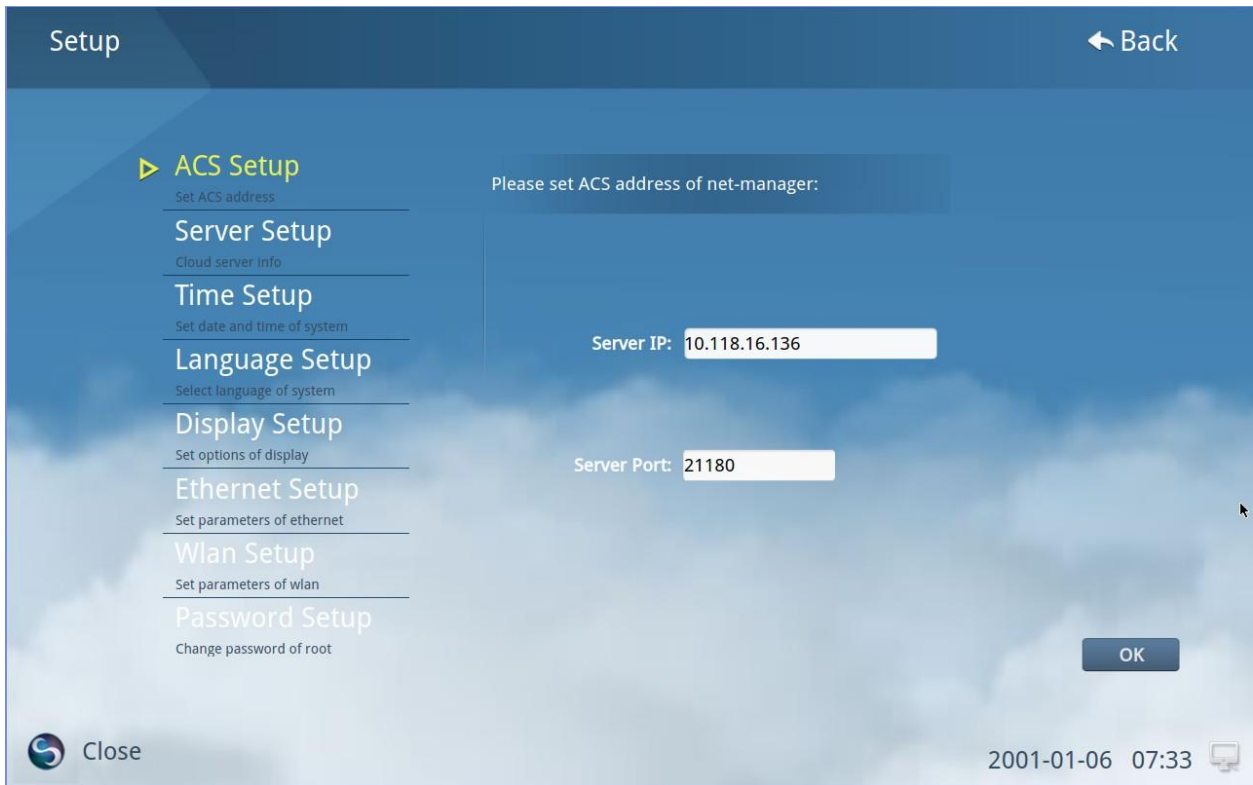
1. Double-click the  icon on the desktop. The Sighter software is started.
2. Click the **Setup** icon. The cloud terminal setting dialog box is displayed, see Figure 1-7.

Figure 1-7 Cloud Terminal Setting Dialog Box



3. Perform the corresponding operations as required.

To...	Do...
Set the IP address of the network management server to enable the network server to control the cloud terminal, including the system shutdown, re-startup from sleep, application upgrade, system status query, and peripheral control	<ul style="list-style-type: none"> i. Select ACS Setup. The ACS setting dialog box is displayed. ii. Set Server IP and Server Port. iii. Click OK.
Set the IP address and port for account verification	<ul style="list-style-type: none"> i. Select the protocol type based on the protocol installed on the server. ii. Select the login mode from the Login Mode list. iii. Set Server Address. <p>If the protocol type is set to the Spice or Citrix protocol, set the IP address of the cloud server to the IP address of the authentication server. If the protocol type is set to the RDP protocol, set the IP</p>

To...	Do...
	<p>address of the cloud server to the IP address of the server that you want to log in to.</p> <p>iv. Set Server Port.</p> <p>This parameter is required if the protocol type is set to Spice.</p> <p>v. Set Domain.</p> <p>This parameter is required if the protocol type is set to Citrix.</p> <p>vi. Click OK.</p>
Set the cloud terminal time	<p>i. Select Time Setup. The system date and time setting dialog box is displayed.</p> <p>ii. Set date and time in the format as prompted.</p> <p>iii. Click OK.</p>
Set the language of the operating system	<p>i. Select Language Setup. The language setting dialog box is displayed.</p> <p>ii. Set the language to English.</p> <p>iii. Click OK.</p>
Set related display parameters	<p>i. Select Display Setup. The display mode setting dialog box is displayed.</p> <p>ii. Select the desired resolution from the Resolution list.</p> <p>iii. (Options) Select the desktop layout from the Extension Mode list.</p> <p>iv. Click OK.</p>
Set the Ethernet IP address of the cloud terminal	<p>i. Select Ethernet Setup. The IP address setting dialog box is displayed.</p> <p>ii. Set the network through the following methods:</p> <ul style="list-style-type: none"> ● Select Static Address, and set IP, Gateway, and Netmask. ● Select DHCP, and dynamically obtain the IP address. <p>iii. Click OK.</p>

To...	Do...
Set the WLAN connection	<ul style="list-style-type: none"> i. Select Wlan Setup. The Wlan setting dialog box is displayed. ii. Click the Enable When option button to search for available WLANs. iii. Select the WLAN that you want to connect.
Set the administrator password for the password verification when switching a user to the administrator	<p>A user can only configure the network for the cloud terminal, and perform operations on the cloud desktop, but the administrator is granted with operations of higher permissions. For details, refer to 1.6 Switching to the Administrator.</p> <ul style="list-style-type: none"> i. Select Password Setup. The administrator password setting dialog box is displayed. ii. Set Old Password and New Password, and then confirm the new password. iii. Click OK.

– End of Steps –

1.4 Monitoring the Network and System Usage

This procedure describes how to query the CPU usage, memory usage, and disk usage, and the operating status of the network connection process on the cloud terminal.

Steps



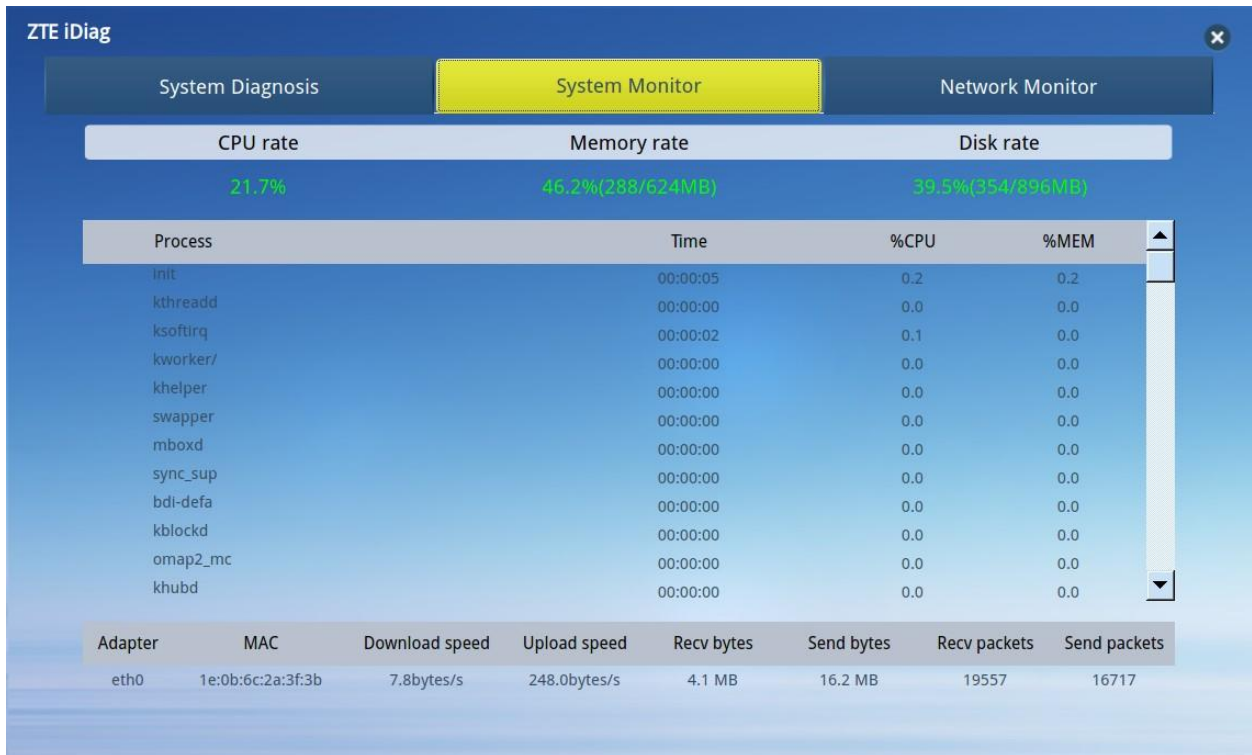
1. Double-click the  icon on the desktop. The Sighter software is started.
2. Click the  icon. The iDiag dialog box is displayed.
3. Click the **System Monitor** tab. The system resource usage is displayed, see [Figure 1-8](#).

Figure 1-8 System Monitor Tab



4. Click the **Network Monitor** tab. The network monitoring status is displayed, see Figure 1-9.

Figure 1-9 System Monitor Tab



– End of Steps –

1.5 Diagnosing the System

This procedure describes how to diagnose the system and peripherals for troubleshooting.

Steps



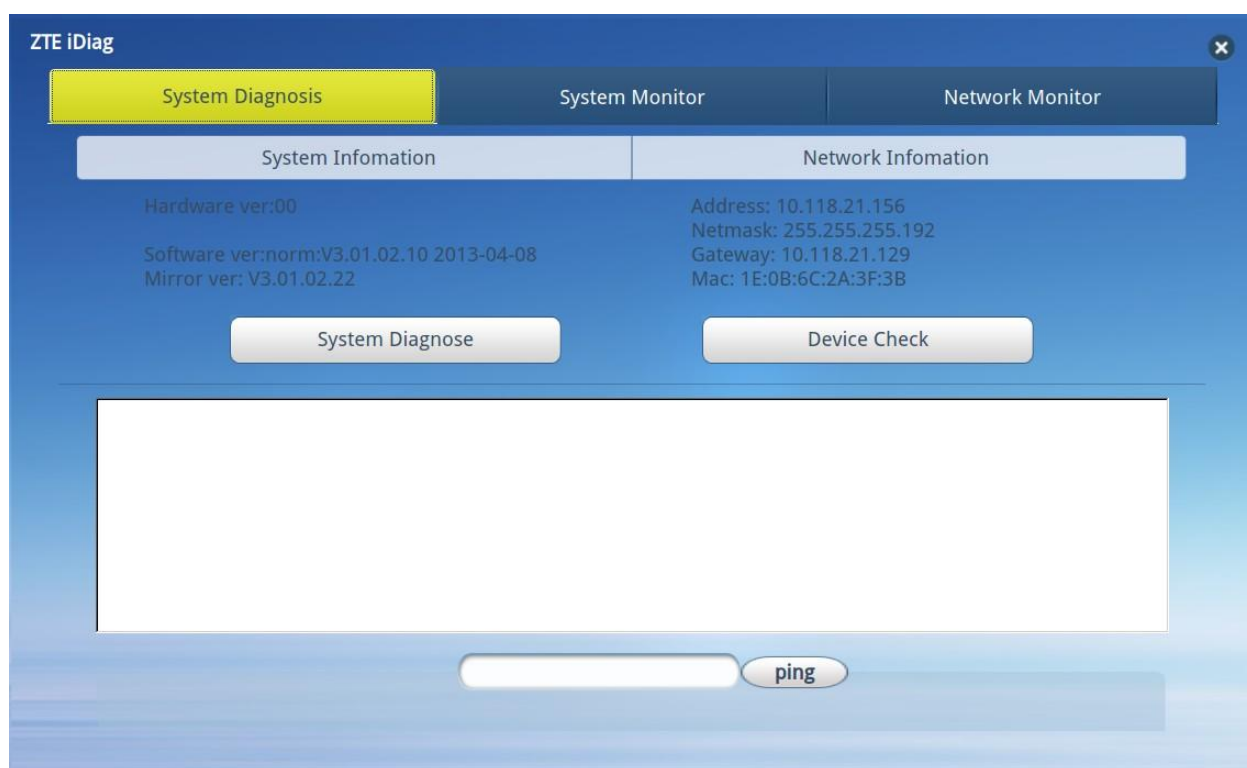
1. Double-click the  icon on the desktop. The Sighter software is started.
2. Click the . The **ZTE iDiag** dialog box is displayed, see [Figure 1-10](#).

Figure 1-10 ZTE iDiag Dialog Box



3. Perform the corresponding operations as required.

To...	Do...
Check the service operating status	Click the System Diagnose button. The service operating status is displayed.
Check the keyboard, mouse, and USB connections	Click the Device Check button. The peripheral connections are displayed.
Check the network connection	<ul style="list-style-type: none"> i. Enter the IP address that you want to ping in the text box. ii. Click ping to check whether the cloud terminal can ping the opposite end.

– End of Steps –

1.6 Switching to the Administrator

This procedure describes how to switch to the administrator because the advanced configuration and management on the cloud terminal cannot be implemented by a common user.

Steps


1. Click  in the lower left corner on the desktop. A shortcut menu is displayed.
2. Select **Logout**. The session logout dialog box is displayed.
3. Click **Logout**. The user logout dialog box is displayed, see [Figure 1-11](#).


Figure 1-11 User Logout Dialog Box



4. Enter the username and password of the administrator. The administrator login dialog box is displayed, see Figure 1-12.

Figure 1-12 Administrator Login Dialog Box



The administrator can click  to configure and manage the system.

– End of Steps –

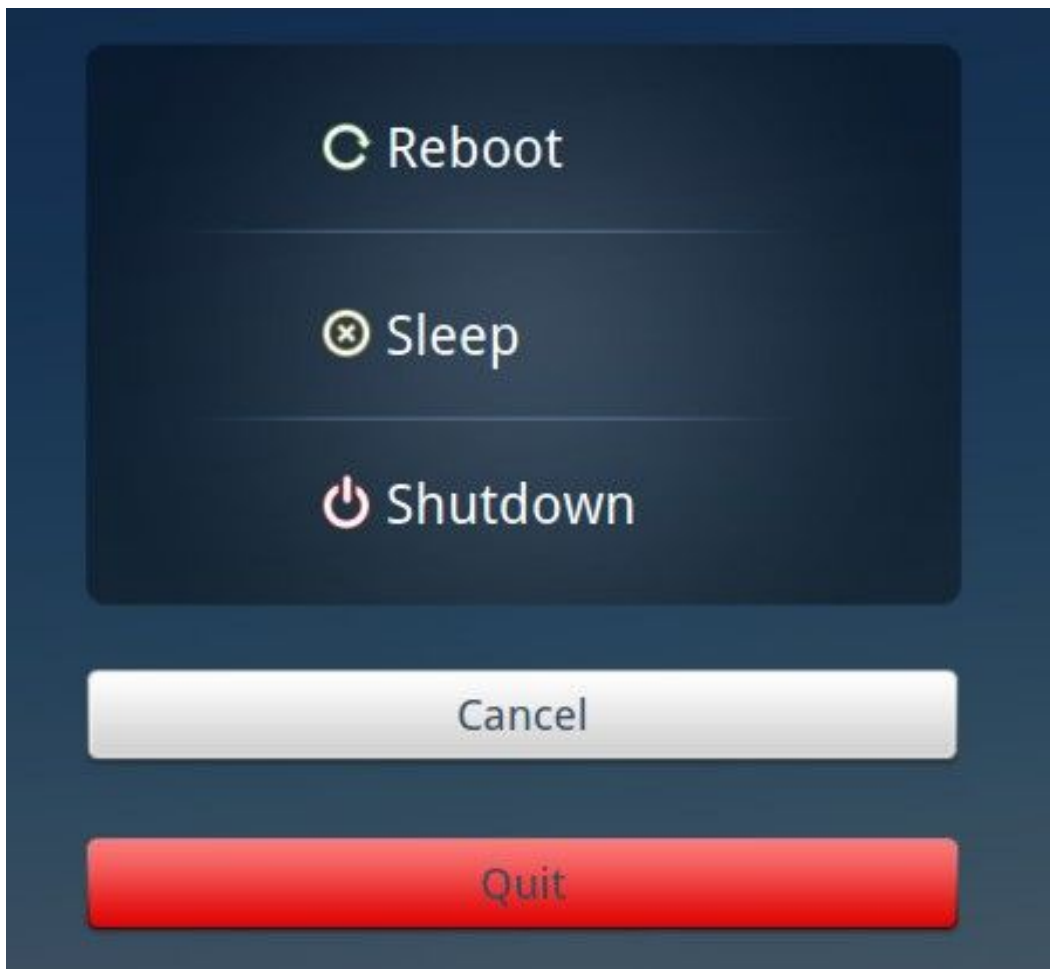
1.7 Restarting or Shutting Down the Cloud Terminal, or Putting the Cloud Terminal to Sleep

This procedure describes how to restart or shut down the cloud terminal, or put the cloud terminal to sleep.

Steps

1. In the Sighter software dialog box, see [Figure 1-2](#), click **Close** in the lower left corner. The power supply management dialog box is displayed, see [Figure 1-13](#).

Figure 1-13 Power Supply Management Dialog Box



2. Perform the corresponding operations as required.

To...	Do...
Restart the cloud terminal	Click Reboot . The cloud terminal system automatically restarts.
Put the cloud terminal to sleep	Click Sleep . The cloud terminal system automatically enters the sleep status.

To...	Do...
Shut down the cloud terminal	Click Shutdown . The cloud terminal is shut down.
Quit the Sighter software	Click Quit to quit the software. The desktop of the operating system of the cloud terminal is displayed.
Cancel the operation	Click Cancel to close the power supply management menu. The Sighter software dialog box is displayed.

– End of Steps –

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Chapter 2

Introduction to the Cloud Terminal

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2.1 FCC Statement

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.



Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2.2 Safety Precautions

Installation

- Use the power adapter delivered with the ZXCLLOUD iBOX CT220 Cloud Terminal. Use of any other power adapter can damage the power adapter or affect its normal operation.
- Ensure that the electric load of power sockets or power cables meets the requirements. Overloaded power sockets or broken power cables can result in an electric shock or a fire. Check the power cables regularly. If any power cable is broken, replace it immediately.
- Do not disassemble the cloud terminal yourself.
- Keep the cloud terminal away from heat sources or high temperature environments. Do not directly expose the cloud terminal to sunlight.
- Do not expose the cloud terminal to moist conditions or water. Do not allow any liquid to leak into the cloud terminal.

Usage

- Keep the ventilation holes clear. Do not place any objects to block the ventilation holes of the cloud terminal.

- Allow sufficient space around the cloud terminal for ventilation. Keep the power outlets clean and dry. If any abnormality occurs (such as smoke/abnormal sounds/smell), unplug the cloud terminal from the power outlet.
- Avoid connecting the cloud terminal to any power outlet that can be accidentally switched off. Accidental loss of power can damage the cloud terminal.
- Do not hard reset the cloud terminal by holding down the power button during normal operation.
- Do not interrupt power while the cloud terminal is downloading a software update.
- When turning off the cloud terminal, perform a complete shutdown (by the user interface or a light press on the power button). Do not turn off the cloud terminal by disconnecting the AC/DC power cord.

Servicing

If you disassemble or repair the cloud terminal yourself, your warranty will be void. Contact the service provider if any of the following occurs:

- A power cord or plug is damaged.
- Liquid is spilled into the cloud terminal.
- The cloud terminal is exposed to rain or moisture.
- The cloud terminal does not operate normally even if you follow the instructions in this guide.
- The external part of the cloud terminal is damaged because the device is accidentally dropped or hit.
- The operation indicator of the cloud terminal does not operate normally.

2.3 Introduction to the Cloud Terminal

The ZXCLLOUD iBOX CT220 is a thin client or desktop cloud terminal with no mechanical components. It has a small size and light weight and requires low power consumption. In addition, it is reliable, easy-to-use, and energy-saving.

The cloud terminal has a built-in Linux operating system and can be quickly launched. In addition, it supports ZTE RAP protocol and can be connected to ZXCLLOUD iRAI virtual desktops.

The cloud terminal has the following features: energy-saving, efficient, and lowering the costs for equipment investment, operation, maintenance, and management. The cloud terminal allows enterprise users to reduce consumption and provides centralized management.

Figure 2-1 shows an overview of the cloud terminal.

Figure 2-1 Overview of the Cloud Terminal



2.4 Components of the Cloud Terminal

Figure 2-2 shows the front panel of the cloud terminal.

Figure 2-2 Front Panel

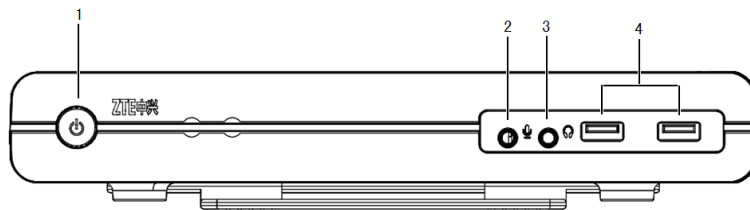


Figure 2-3 shows the back panel of the cloud terminal.

Figure 2-3 Back Panel

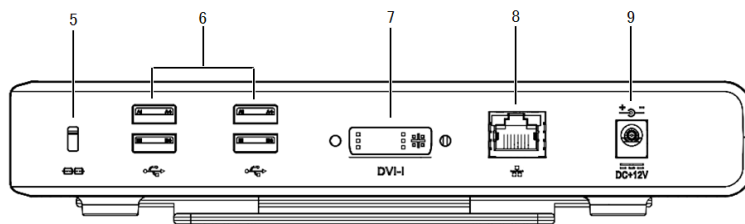


Figure 2-4 shows the back panel of the cloud terminal if it is configured with a Power over Ethernet (POE) module.

Figure 2-4 Back Panel of the Cloud Terminal with a Built-In POE Module

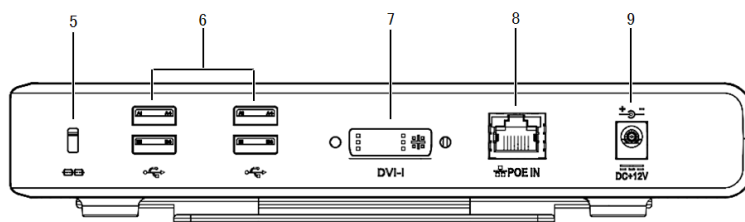


Table 2-1 provides a description of the components in the cloud terminal.

Table 2-1 Description of the Cloud Terminal Components

Serial No.	Component	Description
1	Power on/off button/power indicator	Press this button to turn on or off the cloud terminal. The power indicator is red during the boot process of the cloud terminal. The power indicator is green if the cloud terminal operates normally.
2	Microphone	An 8-bit microphone input interface with a 3.5 mm aperture. Connects to a microphone.
3	Speaker	A 16-bit stereo audio output interface with a 3.5 mm aperture. Connects to a headphone or an external audio device.
4	USB 2.0 interfaces (2)	The USB interfaces on the front panel. Connect to USB peripherals, for example, removable storages.
5	Safety lock receptacle	Connects to an anti-theft security lock (the lock needs to be purchased separately).
6	USB 2.0 interfaces (4)	The USB interfaces on the back panel. Connect to USB peripherals, for example, keyboards and mouses with USB interfaces.
7	DVI-I interface	Connects to any display with a DVI-I interface. Connects to any display with a VGA interface by using the DVI-I to VGA converter delivered with the cloud terminal.
8	Ethernet port	Connects to any 10/100 Base-T network through an RJ-45 network cable. If the terminal is configured with a WiFi wireless module, you can directly use the built-in wireless module to connect to the network. If the terminal is configured with a POE module, you can use a network cable to connect the terminal to a POE switch, which can then supply power for the terminal.
9	DC +12 V power adapter input	Connects to the power adapter delivered with the cloud terminal. If the terminal uses the POE power supply mode, you do not need to connect the terminal to the power adapter.

 **Caution!**

The terminal can be ordered with a POE or WiFi wireless module as required.

To check whether the terminal is configured with a POE or WiFi wireless module, view the model label on the terminal.

If the label is printed with "POE" or "Wi-Fi", the terminal is configured with a POE or WiFi wireless module. Otherwise, the terminal is not configured with the corresponding module.

2.5 Connecting the Cloud Terminal to Peripherals

Before accessing the desktop cloud system, perform the following steps to correctly connect the cloud terminal to its peripherals.

1. Place the cloud terminal horizontally or vertically on a horizontal workbench (if you want to place the cloud terminal vertically on a horizontal workbench, use the base delivered with the cloud terminal) or fix the cloud terminal to the back of a display through a VESA bracket (purchased separately).

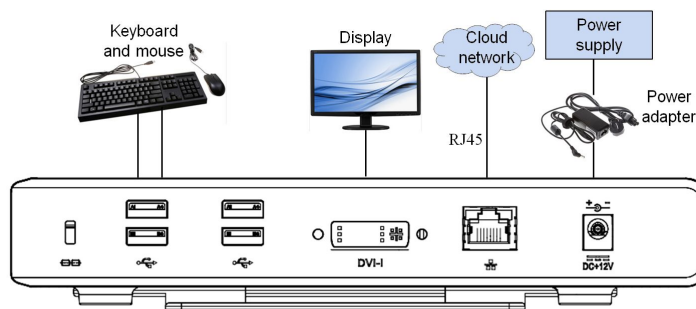
 **Note:**

To mount the cloud terminal to the back of a display, ensure that:

- There are VESA mounting holes on the back of the display.
- These mounting holes match the mounting holes of the bracket with the cloud terminal.

2. Connect the cloud terminal to input and output devices, including a video display, a keyboard, and a mouse. For the connections of the cloud terminal to related peripherals, see [Figure 2-5](#).

Figure 2-5 ZXCLLOUD iBOX CT220 Connections



**Note:**

When connecting a display to the cloud terminal, do as follows depending on the interface of the display:

- If the display is equipped with a DVI-I interface, connect it directly to the cloud terminal.
 - If the display is equipped with a VGA interface, connect it to the cloud terminal by using the DVI-I to VGA converter delivered with the cloud terminal.
-

3. Connect the power adapter to the power input of the cloud terminal, and then connect the power adapter to a 110–240V AC, 50–60Hz power outlet.
-

**Caution!**

Use the power adapter delivered with the cloud terminal. Use of any other power adapter may damage the cloud terminal. The damage caused by an improper power adapter is not covered by the warranty.

Connect the cloud terminal to an AC power supply after all the connections (including the power adapter) are completed.

2.6 Turning On/Off the Cloud Terminal

Turning On the Cloud Terminal

You can turn on the cloud terminal by pressing the power on/off button on the front panel of the cloud terminal.

**Note:**

During the operation of the cloud terminal, the power indicator is blue and steady.

Turning Off the Cloud Terminal

You can forcibly turn off the cloud terminal by pressing and holding down the power on/off button on the front panel of the cloud terminal. In addition, perform the following steps to shut down the cloud terminal:

1. From the main menu on the cloud desktop, select **Shut down**. A shutdown dialog box is displayed.

2. Click the **Shut down** button. A confirmation dialog box is displayed on the cloud desktop.
3. Click **OK**.

**Caution!**

When turning off the cloud terminal, perform a complete shutdown (by the user interface or a light press on the power on/off button). Do not turn off the cloud terminal by disconnecting the AC/DC power cord or turning off the power switch.

2.7 Configuring the Cloud Terminal

After turning on, the cloud terminal executes the terminal self-test program before automatically loading the built-in operating system.

You can log in to the operating system as a common user. As a common user, you can set the network, access the cloud desktop, and perform other daily operations. To configure and manage the cloud terminal system, you have to switch to the administrator with higher-level permissions.

Table 2-2 provides the user name and password for the administrator of the cloud terminal operating system.

Table 2-2 Default User Name and Password for the Administrator

User	User Name	Password
Administrator	root	123456

**Caution!**

The user name and password of the administrator are case sensitive and cannot be modified randomly.

To switch to the common user, restart the cloud terminal.

2.8 Technical Specifications

ZTE ZXCLLOUD iBOX CT220 is targeted to provide 24-hours continuous triple-play services, please refer to the following technical specifications.

System Specifications

- CPU: ARM 1GHz
- Memory: 1 GB RAM

- Storage: 1 GB Flash
- NIC: 10/100 MB Ethernet port (the port can be requested to be configured with the POE function)
- Keyboard/mouse: standard USB keyboard and optical mouse
- Display: maximum resolution 1920x1080, @ 60 Hz, 32-bit color
- Built-in operating system: Linux operating system
- Interfaces for connecting peripherals:
 - 1 DVI-I interface
 - 6 USB 2.0 interfaces
 - 1 RJ-45 interface
 - 1 16-bit stereo audio output interface
 - 1 8-bit microphone audio input interface

Physical Specifications

- Dimensions: 230 mm × 153.5 mm × 34 mm (L × W × H)
- Weight: 1200 g (the power adapter not included)

Electrical Specifications

- Power supply: external 12 V DC
- Maximum power consumption: 10 W

Environmental Requirements

- Operating temperature: 10°C–40°C
- Operating humidity: 5%–95% (non-condensing)

Warranty

ZTE CORPORATION provides a 3-year warranty for the cloud terminal and 1-year warranty for the accessories (keyboard, mouse, and power cables).

ZTE CORPORATION reserves the right to modify technical specifications in this manual without any notification in advance.

2.9 Packing List

In general, the ZXCLLOUD iBOX CT220 package box includes the following items:

ZXCLLOUD iBOX CT220 Cloud Terminal	1
Power adapter	1
Base	1
DVI-I to VGA converter	1
Keyboard and mouse	1 set

Quick Start Guide	1
Certificate	1 copy



Caution!

The terminal may be configured with a POE or WiFi wireless module. Read the model label on the package box or terminal carefully. If the label is printed with "POE" or "WIFI", the terminal is configured with a POE or WiFi wireless module. Otherwise, the terminal is not configured with the corresponding module.

The item list in the above table is for reference only. Items actually delivered depend on the vendor. If any item is missing or damaged, contact the vendor immediately. To change the product, keep the package box and package contents.

2.10 Toxic or Hazardous Substances in Product

To minimize the environmental impact and take more responsibility to the earth we live, this document shall serve as formal declaration that the ZXCLLOUD iBOX CT220 manufactured by ZTE CORPORATION is in compliance with the Directive SJ/T11364-2006 of the People's Republic of China - "Marking for Control of Pollution Caused by Electronic Information Products" with respect to the following substances:

The declaration is issued base on our current level of knowledge. Since conditions of use are outside our control, ZTE CORPORATION makes no warranties, expressed or implied, and assumes no liability in connection with the use of this information.

For a description of toxic or hazardous substances in the ZXCLLOUD iBOX CT220, refer to [Table 2-3](#).

Table 2-3 Toxic or Hazardous Substances or Elements in Product

Parts	Toxic or Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cad- mium (Cd)	Hex- avalent Chromium (Cr(VI))	Poly- Bromi- nated Biphenyl (PBB)	PolyBromi- nated Diphenyl Ether (PBDE)
PCBA	×	○	○	○	○	○
Metal parts	×	○	○	○	○	○
Plastic and polymer parts	○	○	○	○	○	○
Cables and cable assemblies	×	○	○	○	○	○

○: Indicates that the toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

×: Indicates that the toxic or hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement in SJ/T11363-2006.

Note:

1. Information about the substances contained in the ZXCLOUD iBOX CT220 manufactured by ZTE CORPORATION should be continuously updated with the technology development.
2. × marked on this product indicates that there are currently no alternative technologies or components.
3. The ZXCLOUD iBOX CT220 manufactured by ZTE CORPORATION is in compliance with the “Administration on the Control of Pollution Caused by Electronic Information Products” published by People’s Republic of China.
4. ZTE CORPORATION reserves the final rights of explanation of the parts included in this table.

The symbol on the right side shows the Environment Friendly Use Period (EFUP) of this product. Some replaceable parts may have a different EFUP label attached to it, such as the battery unit. This EFUP is valid only under the operating conditions listed in the operation manual of the product.

