



# ZXCLOUD iBOX CT620

## Quick Start Guide

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# 1 Introduction to the Cloud Terminal

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## 1.1 FCC Statement

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### 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.



**Caution!**

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

## 1.2 Safety Precautions

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### Installation

- Use the power adapter delivered with the ZXCLLOUD iBOX CT620 (hereinafter referred to as the cloud terminal). Use of any other power adapter can damage the cloud terminal or affect its normal operation.
- Ensure that the electric load of the 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 spill any liquid onto the cloud terminal.

### Usage

- Keep the ventilation openings free. Do not place any objects to block the ventilation openings of the cloud terminal.
- Allow sufficient space around the cloud terminal for ventilation. Keep the power outlets clean and dry. If any of the following 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 due to drop or impact.

- The operation indicator of the cloud terminal does not operate normally.

## 1.3 Overview of the Cloud Terminal

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The ZXCLLOUD iBOX CT620 is a thin client without any mechanical components. As a desktop cloud terminal, it has a small size, light weight and requires low power consumption. In addition, it is reliable, easy to use, and energy saving. For the overview of the cloud terminal, see [Figure 1](#).

Figure 1 Overview of the Cloud Terminal



The cloud terminal has a built-in WES7/Linux operating system and can be quickly started. It supports ZTE RAP, Citrix ICA, VMware PCoIP, and RDP.

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

## 1.4 Features of the Cloud Terminal

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- Support for multiple cloud protocols

The cloud terminal supports the most complete universal virtual desktop transmission protocols in the industry, including Citrix ICA, RIP, ZTE RAP, and VMware PCoIP.

- Support for network power supply

The cloud terminal supports the PoE function (purchased separately) which allows power to be supplied to the cloud terminal through Ethernet cables. Therefore, it enables the most flexible deployment with the least cables.

- Energy-saving

The cloud terminal meets energy-saving requirements and is low-carbon and environmental-friendly.

- High rate on investment

The cloud terminal uses the Intel ATOM Cedar Trail processor and ensures low maintenance cost in the lifecycle.

- Highly reliability

The cloud terminal uses a fanless design and eliminates faults that can be caused by fans.

- High security

The cloud terminal uses exclusive protection software and implements the protection of the flash card. It has a built-in security policy and ensures high security.

- Easy installation

The cloud terminal has a small size and supports the VESA mount mode. It is not subject to the office environment and can be mounted to the back of a display, installed vertically or horizontally on a desk, or installed under a desk.

## 1.5 Components of the Cloud Terminal

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Figure 2 shows the front panel of the cloud terminal.

Figure 2 Front Panel

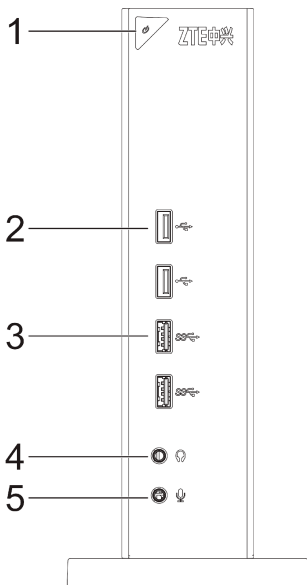


Figure 3 shows the back panel of the cloud terminal.

Figure 3 Back Panel

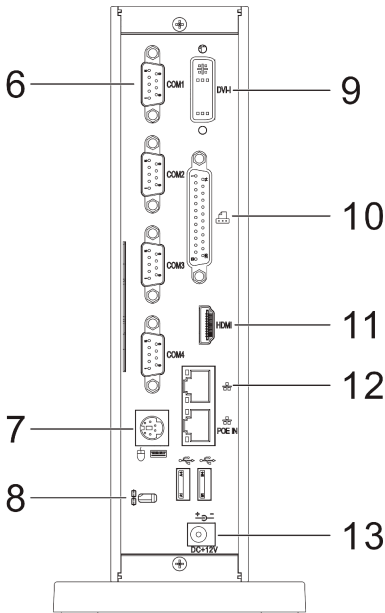


Table 1 provides a description of the components in the cloud terminal.

Table 1 Description of the Cloud Terminal Components

Serial No.	Component	Description
1	Power on/off button/power indicator	Press this button to turn the cloud terminal on or off. The power indicator lights red when the cloud terminal is being started. The power indicator lights green when the cloud terminal operates properly.
2	USB 2.0 interfaces (4)	Two USB 2.0 interfaces on the front panel and two USB 2.0 interfaces on the back panel. Connect to USB keyboard and mouse devices.
3	USB 3.0 interfaces (2)	USB 3.0 high-speed interfaces on the back panel. Connect to USB peripherals, such as removable storage devices.
4	Speaker	16-bit stereo audio output interface with a 3.5 mm aperture. Connects to a headphone or an external audio device.



Serial No.	Component	Description
5	Microphone	8-bit microphone audio input interface with a 3.5 mm aperture. Connects to a microphone.
6	COM serial port	Connects to a serial device, such as a numeric keyboard or a printer.
7	PS/2 interface	Connects to a keyboard and a mouse through the one-for-two cable delivered with the cloud terminal.
8	Safety lock receptacle	Connects to an anti-theft security lock.
9	DVI-I interface	Connects to any display with a DVI-I interface. Connects to any display with a VGA interface through the DVI-I to VGA converter delivered with the cloud terminal.
10	Parallel interface	Connects to any device with a parallel interface, such as a printer.
11	HDMI interface	Connects to a high-definition TV or display.
12	Ethernet port	Connects to any 10/100/1000 Base-T network through an RJ-45 network cable. If the cloud terminal is configured with a PoE module, you can use a network cable to connect the terminal to a PoE switch through this interface and then the PoE switch can supply power to the terminal.
13	DC + 12 V power adapter input	Connects to the power adapter delivered with the cloud terminal. If the cloud terminal uses the PoE power supply mode, you do not need to connect the cloud terminal to the power adapter.



**Caution!**

*The cloud terminal can be configured with a PoE or Wi-Fi module as required.*

*To check whether the terminal is configured with a PoE or Wi-Fi module, you can check the model label on the terminal.*

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

*If the terminal is configured with a Wi-Fi module, it can be connected to a network through the built-in Wi-Fi module.*

## 1.6 Connecting the Cloud Terminal to Peripherals

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

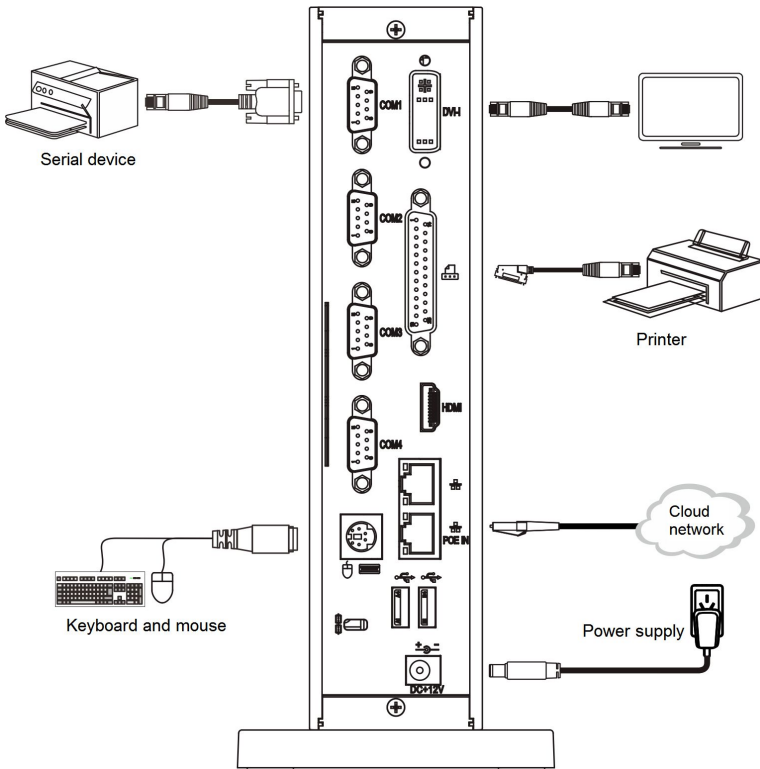
1. Install the cloud terminal properly. The cloud terminal can be installed horizontally or vertically on a horizontal workbench (To vertically install the cloud terminal on the workbench, the base delivered with the terminal must be used) or mounted to the back of a display or another concealed location through a bracket (purchased separately).

**NOTE**  
**Note:**

*To mount the cloud terminal to the back of a display, ensure that the display supports the VESA mount mode and has mount holes that can match the cloud terminal.*

2. Connect the cloud terminal to related peripherals. Ensure that the following input and output devices are connected to the terminal: a video display, a keyboard, and a mouse. For details, see [Figure 4](#).

Figure 4 Connections of the Cloud Terminal to Related Peripherals



**NOTE**  
**Note:**

*When connecting the cloud terminal to a display, ensure that the input interface of the terminal matches that of the display. If the display is configured with a DVI-I interface, the display can be*

directly connected to the terminal. If the display is only configured with a VGA interface, the DVI-I to VGA converter delivered with the terminal must be used.

If the terminal is configured with a built-in Wi-Fi module, it can be directly connected to a wireless AP or a cloud network through the Wi-Fi module.

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



#### **Caution!**

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

After connecting the terminal to all required peripherals (including the power adapter), you can connect the terminal to an AC power supply.

## 1.7 Turning On/Off the Cloud Terminal

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### 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:**

When the cloud terminal is being started, the power indicator lights red. After the cloud terminal is started, the power indicator lights green.

### Turning Off the Cloud Terminal

1. Press the power on/off button on the front panel of the cloud terminal. The dialog box for shutting down the cloud terminal is displayed.
2. Click the **SHUTDOWN** button. The confirmation dialog box is displayed.
3. Click **OK**.



#### **Caution!**

When turning off the cloud terminal, perform a complete shutdown (through the user interface or by pressing 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.

# 1.8 Technical Specifications

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## System Specifications

Table 2 ZX CLOUD iBOX CT620 Technical Specifications

Parameter	Description
CPU	Intel D2550 dual core 1.86G Hz
Memory	2G/4G DDR3
Storage	8G/16G SSD (supporting SATA micro hard disks)
Video	DVI-I (supporting dual display clone and expansion)
Audio	1 16-bit stereo audio output interface 1 8-bit microphone audio input interface
Ethernet port (POE function purchased separately)	10/100/1000M Supports the PoE function
Keyboard and mouse	Standard USB keyboard and USB optical mouse
Interfaces for connecting to peripherals	1 HDMI interface 6 USB interfaces (4 USB 2.0 interfaces and 2 USB 3.0 high-speed interfaces) 1 PS/2 interface 1 parallel interface 4 serial interfaces
Operating system	WES7/Linux (CGSL) operating system
Supported protocol	Citrix ICA, RDP, ZTE RAP, and VMware PCoIP
Management protocol	TR069 and FTP
Wi-Fi	802.11 b/g/n built-in (purchased separately)

## Physical Specifications

Dimensions (installed vertically): 200 mm × 230 mm × 55 mm (width × height × length)

## Electrical Specifications

- Power supply: 12 V
- Power consumption: lower than 15 w (0.5 w in low power consumption situation)

## Environmental requirements

- Temperature: 0°C–40°C
- 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.

## 1.9 Packing List

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In general, the package box of the ZXCLLOUD iBOX CT620 includes the following items:

ZXCLLOUD iBOX CT620	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 Wi-Fi module. Read the model label on the package box or terminal carefully. If the label is printed with "POE" or "Wi-Fi", the terminal is configured with a POE or Wi-Fi module. Otherwise, the terminal is not configured with the corresponding module.*

*The packing list in the above table is for reference only. Items actually delivered may vary. If any item is missing or damaged, contact the vendor immediately. For possible change of the cloud terminal, keep the package box and all the items.*

## 1.10 Declaration of RoHS Compliance

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To minimize the environmental impact and take more responsibility to the earth we live, this document shall serve as formal declaration that the product 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, express or implied, and assumes no liability in connection with the use of this information.

For the content of a specific hazardous substance, refer to [Table 3](#).

Table 3 Toxic or Hazardous Substances or Elements in Product


Parts	Toxic or Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Poly-Brominated Biphenyl (PBB)	PolyBrominated Diphenyl Ether (PBDE)
PCBA	×	○	○	○	○	○
Metal parts	×	○	○	○	○	○
Plastic and polymer parts	○	○	○	○	○	○
Cables and cable assemblies	×	○	○	○	○	○

○: Indicates that the hazardous substance contained in all the homogeneous materials for this part is under the limit requirements in SJ/T11363-2006.  
 ×: Indicates that the hazardous substance contained in one of the homogeneous materials for this part is more than the limit requirements in SJ/T11363-2006.

Note:

- Information about the substances contained in the product manufactured by ZTE CORPORATION should be continuously updated with the technology development.
- × marked on this product refers to that there are currently no alternative technologies or components.
- The product manufactured by ZTE CORPORATION is in compliance with the Measures for the Control of Pollution from Electronic Information Products published by People's Republic of China.
- 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.



## 1.11 Logging In to the Operating System of the Cloud Terminal

Users can perform different operations after logging in to the operating system of the cloud terminal.

The cloud terminal can be installed with a WES7 or Linux operating system. This procedure uses WES7 as an example to describe how to log in to the operating system of the cloud terminal.

## Steps

1. Press the power on/off button to start the cloud terminal. After the terminal is started, the login page is displayed, see [Figure 5](#).

Figure 5 Login Page



**NOTE:**

*The shortcut buttons on the page vary with the actual software installed in the system.*