3U16-BAY SERIES SERVER CHASSIS

Product Manual V1.0

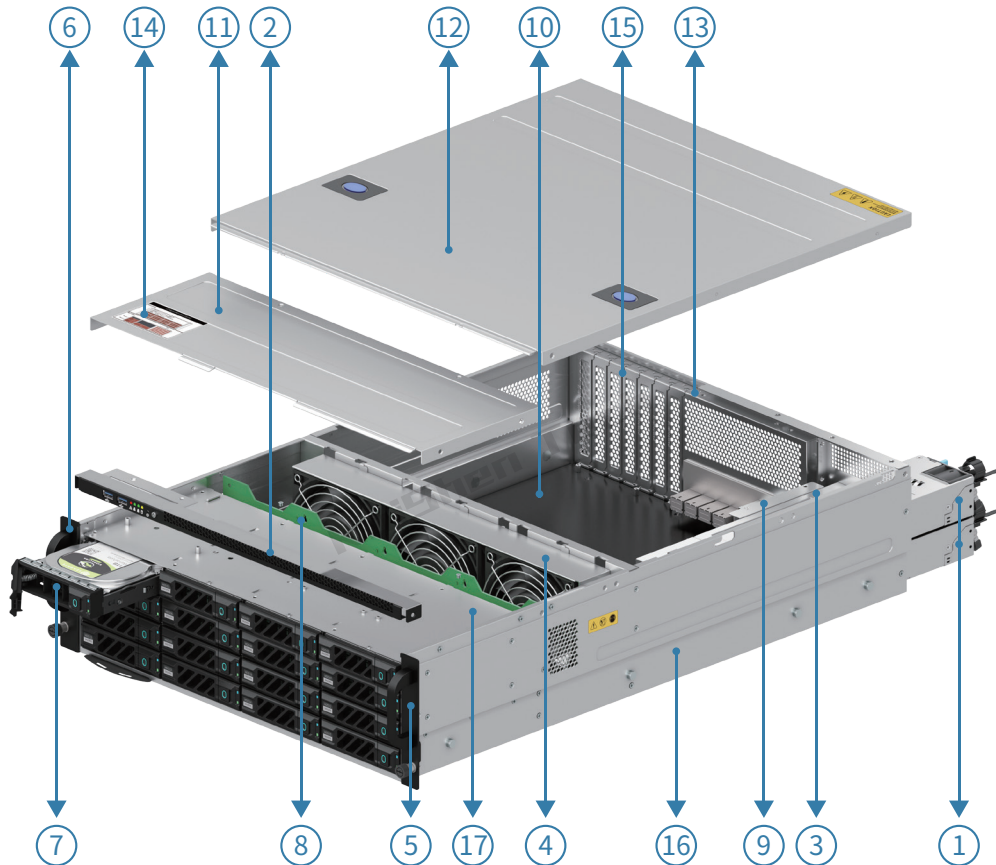# CONTENTS

Chapter 1: Product Introduction

1.1 Product Features

Product Code	K33001
chassis category	3U Rack mount
Material	SGCC1.2mm(Taiwan)
MB Form Factor	Extended ATX (12"x 13")
Dimensions (D*W*H)	660 * 435 * 132.3(mm) 25.98"x 17.12"x 5.21 "
Drive Bays	3.5"Hot-swap: 16 , Internal 2.5": 2 , 2.5"Hot-swap (Option): 2
PSU Form Factor	2U Single or 1+1 Redundant
Indicators	1 * Power Status , 2 * LAN Activity, 1 * UID Status , 1 * HDD Status , 1 * Warning Status
Front Control	1 * Power On/0ff , 1 * System Reset, 1 * UID 2 * USB 2.0 , USB3.0 + VGA(Option)
Safety Device	Intrusion Switch (Option)
Cooling Fans	Middle : 3 x 12038mm (T=38mm) , PWM , 6500RPM
Expansion Slots	7 PCIE
Riser card module	Option
HDD Backplane	16-port 6Gb/s - SAS
Rack rails	P/N:0304100006(Option)
Net Weight	15.2kg
Gross Weight	16.2kg
Package size(D*W*H)	830x600x230mm

1.2 Chassis Structure

1. Power Supply
2. Front Panel
3. Power Supply Bracket
4. Fans Moudle
5. Right Bracket Assembly
6. Left Bracket Assembly
7. 3.5-inch Hard Drive Tray
   (Supports 2.5-inch Hard Drives)
8. Hard Drive Backplane
9. Internal 2.5-inch Hard Drive
   Mounting Bracket

10. Gasket
11. Front Cover
12. Rear Cover
13. Rear Window Assembly
14. Chassis Layout Diagram Sticker
15. Standard 7 PCIe Expansion Slots
16. Chassis Base
17. 3u16 Hard Drive Cage Assembly

1.3 Description of Front Panel and Hard Drive Bay

1.3.1 Front Panel and Indicator Lights：

硬盘顺序示意图			
HD00	HD01	HD02	HD03
HD04	HD05	HD06	HD07
HD08	HD09	HD10	HD11
HD12	HD13	HD14	HD15

1. Server Information Label
2. Power Button + Power Indicator Light
3. Reset Button
4. HDD Indicator Ligh
5. Ethernet Port 1 Indicator Light
6. Ethernet Port 2 Indicator Light
7. Fault Indicator Light
8. USB 2.0
9. USB 2.0

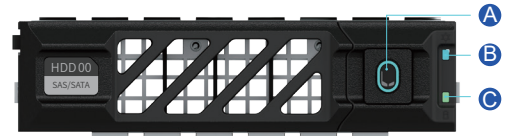Control Panel Buttons and Interface Description：

Power Button	Power button, press once to power on when the system is powered； In the powered-on state, press and hold for 5 seconds to shut down the system.
Reset Button	In the powered-on state, press once to restart the device.
UID Button	In the powered-on state, press once to illuminate the indicator light.

Control Panel Indicator Light Explanation：

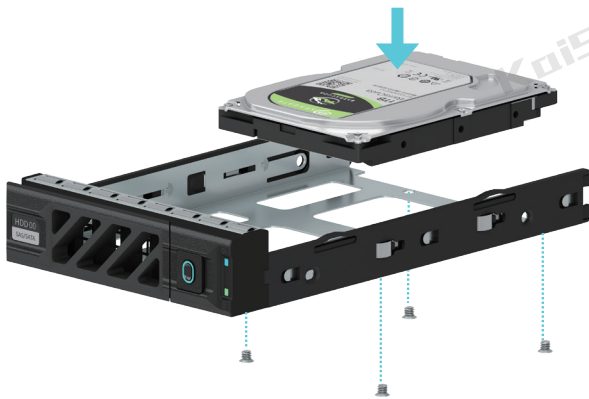| Name	Color	Status	Description
Power Light	Blue	On	The server is in the powered-on state.
UID Light	Blue	On	The server is in the located state.
Fault Indicator Light	Red	On	The server is experiencing a malfunction.
Network 1 Indicator Light	Green	On	The network connection is normal.
Network 2 Indicator Light	Green	On	The network connection is normal.
HDD Indicator Light	Yellow	On	The hard drive is in operational status.

1.3.2 Hard Drive Installation and Hard Drive Tray Indicator Light Instructions：
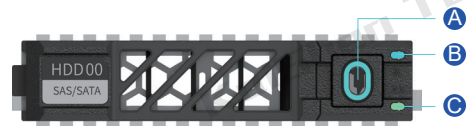
3.5-inch Hard Drive Installation Guide:

screw

A. Power On Button

B. Power Indicator Light

C. Status Indicator Light

2.5-inch Hard Drive Installation Guide:

screw

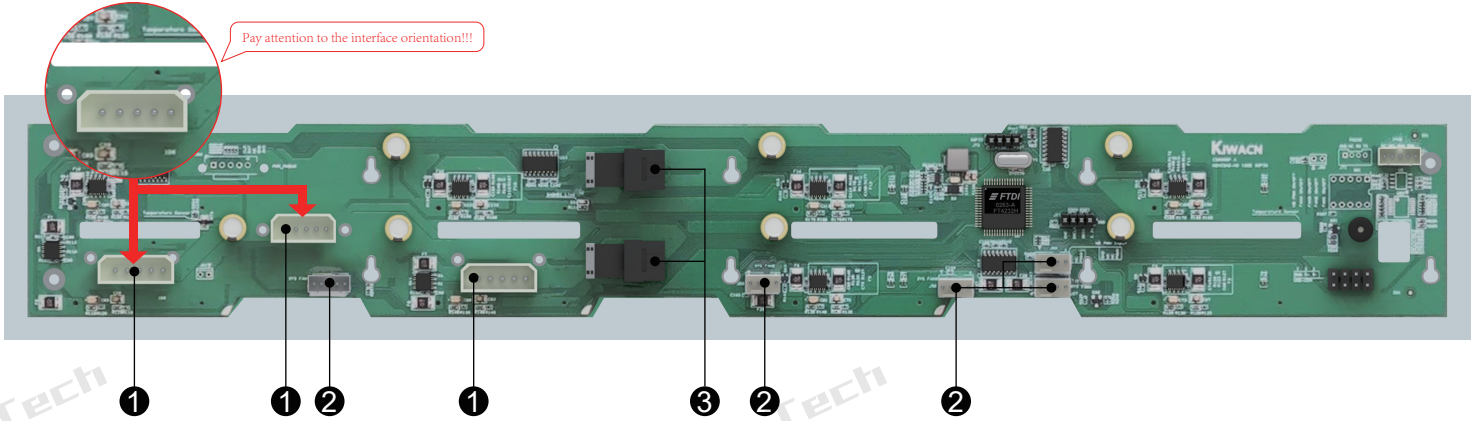| Hard Drive Tray Indicator Light Instructions	
B	Blue: Hard Drive Powered On
C	Solid Green: Hard Drive in Position
	Flashing Green: Hard Drive Activity
	Solid/Flashing Red: Hard Drive Failure

2.5-inch Hard Drive Installation Guide:

screw

A. Power On Button

B. Power Indicator Light

C. Status Indicator Light

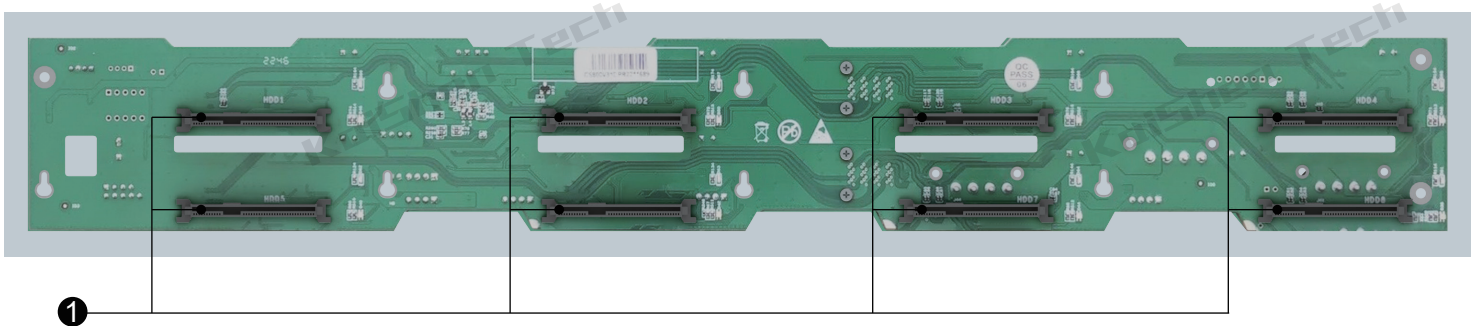| Hard Drive Tray Indicator Light Instructions	
B	Blue: Hard Drive Powered On
C	Solid Green: Hard Drive in Position
	Flashing Green: Hard Drive Activity
	Solid/Flashing Red: Hard Drive Failure

1.4 Hard Drive Backplane

1.4.1 8-Bay 12GB Direct Attached Backplane

TOP Plane:

Pay attention to the interface orientation!!!

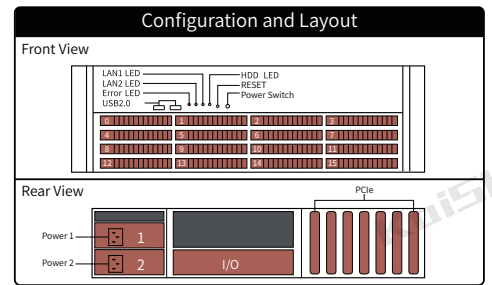| Label	Device Description	Function Description	Location Identifier
1	ATX 4-pin Power Connector	Backplane Power Transmission Connector for 12V Power Supply。 (Pay attention to the interface orientation)	J1、J2、J58
2	Fan Connector	Used for 4-pin Fan Connector	SYS FAN1, SYS FAN2, SYS FAN3, SYS FAN4, J69
3	SFF 8643Connector	Backplane Drive Slot Signal Interface	SASHD1、SASHD2

BOTTOM Plane:

Label	Device Description	Function Description	Function Description
1	SAS/SATA Hard Drive Connector	1.Supports up to 12G/b SAS Hard Drives; 2.Supports up to 6G/b SATA Hard Drives; 3.Supports Hot-Swappable SAS/SATA Hard Drives。	HDD1, HDD2,HDD3, HDD4, HDD5,HDD6, HDD7,HDD8

Chapter 2: Product Appearance

2.1 Chassis Structure

2.1.1 Chassis Diagram

Configuration and Layout

Front View

LAN1 LED — HDD LED
LAN2 LED — RESET
Error LED — Power Switch
USB2.0

Rear View — PCIe

Power 1 — 1
Power 2 — 2 — I/O

CAUTION
请注意此处高温高压危险!
Please note high temperature and high voltage danger here!

Notice: Caution, High Voltage Hazard

Notice: Do not place liquids, handle with care

⑭ Chassis Layout Diagram Sticker
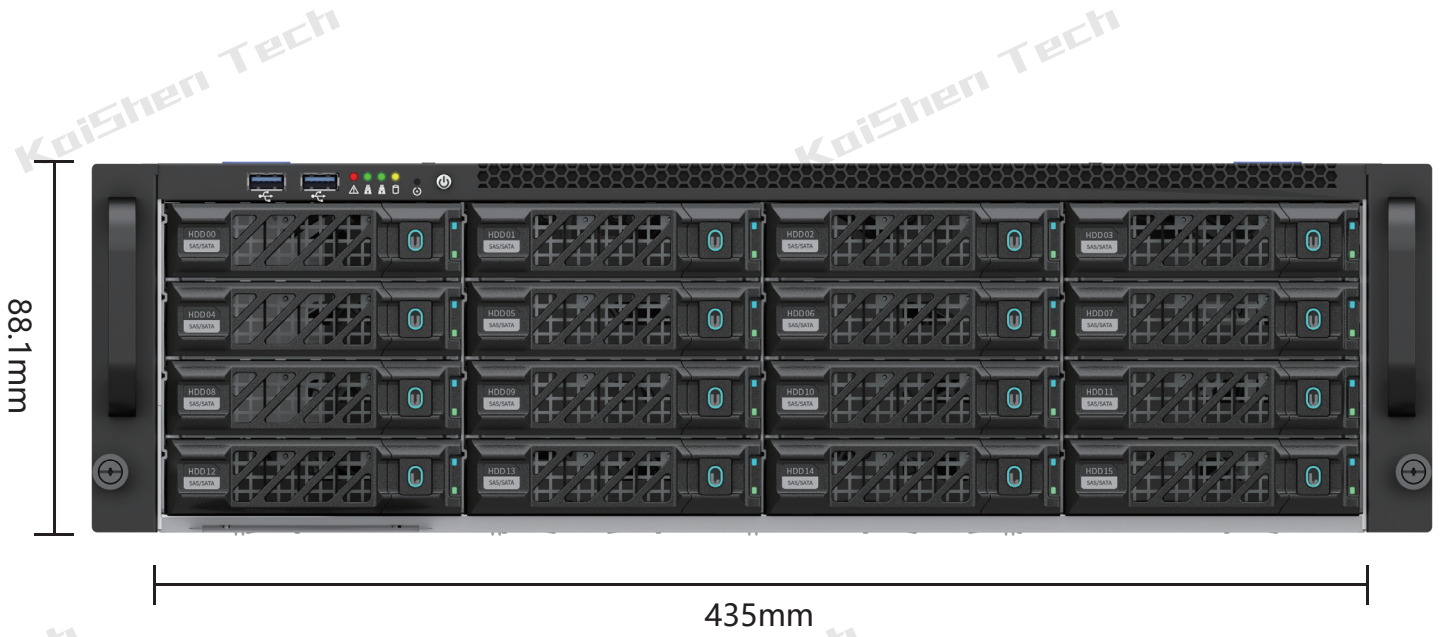⑮ Standard 7 PCIe Expansion Slots

2.1.2 Server Chassis Images

Front View

45° Side View
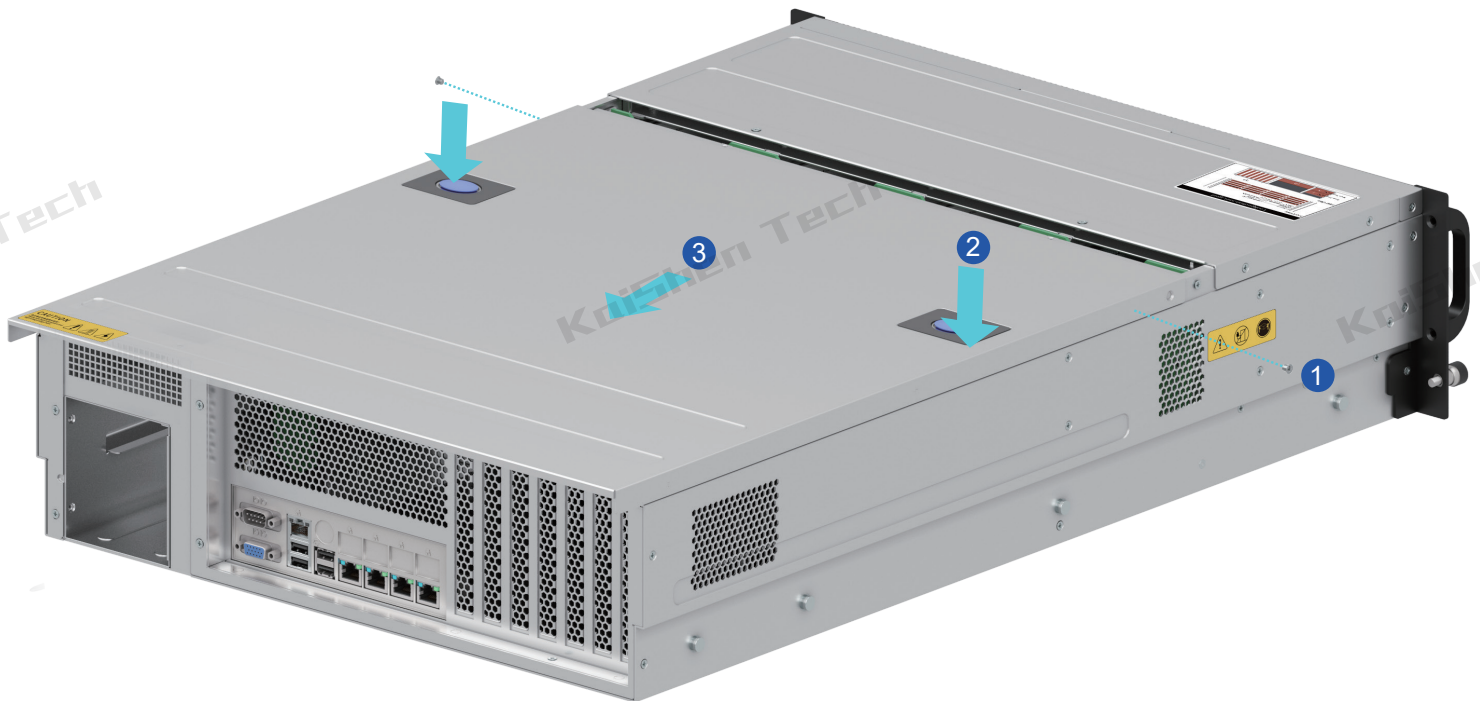
45° Rear View

Front View (Dimensions)

88.1mm

435mm
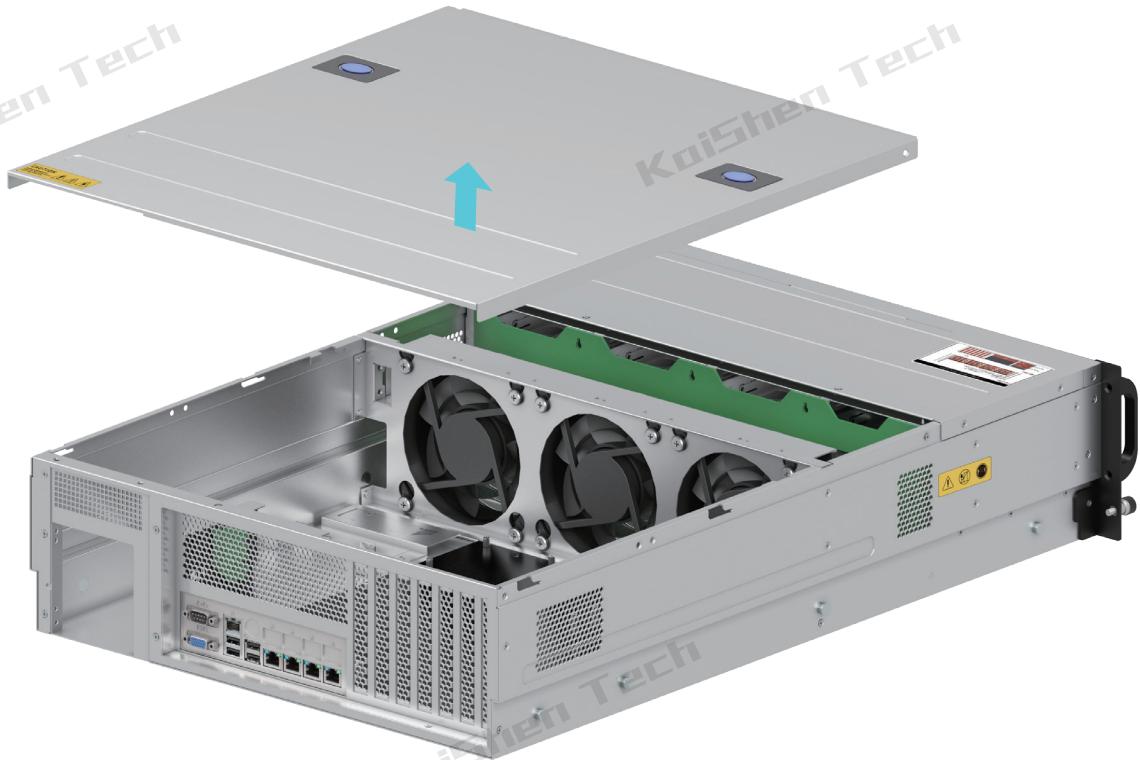

Top View (Dimensions)

660mm

Chapter 3 Product Loading and Unloading

3.1 Installation of Optical Drive
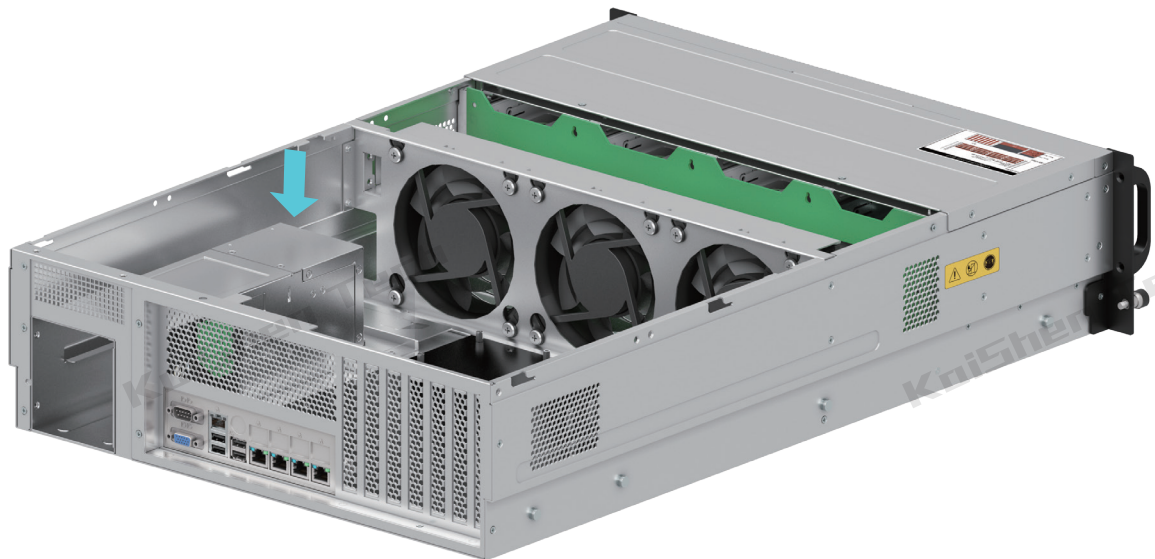
3.2.1 Steps of Installing the Optical Drive：

1. Loosen the screws at both ends of the upper cover as shown in the diagram, using your hands；
2. Slide the top cover towards the back in the direction of the arrow；
3. Lift off the top cover in the direction indicated by the arrow.

3.3 Installation of the Power Supply
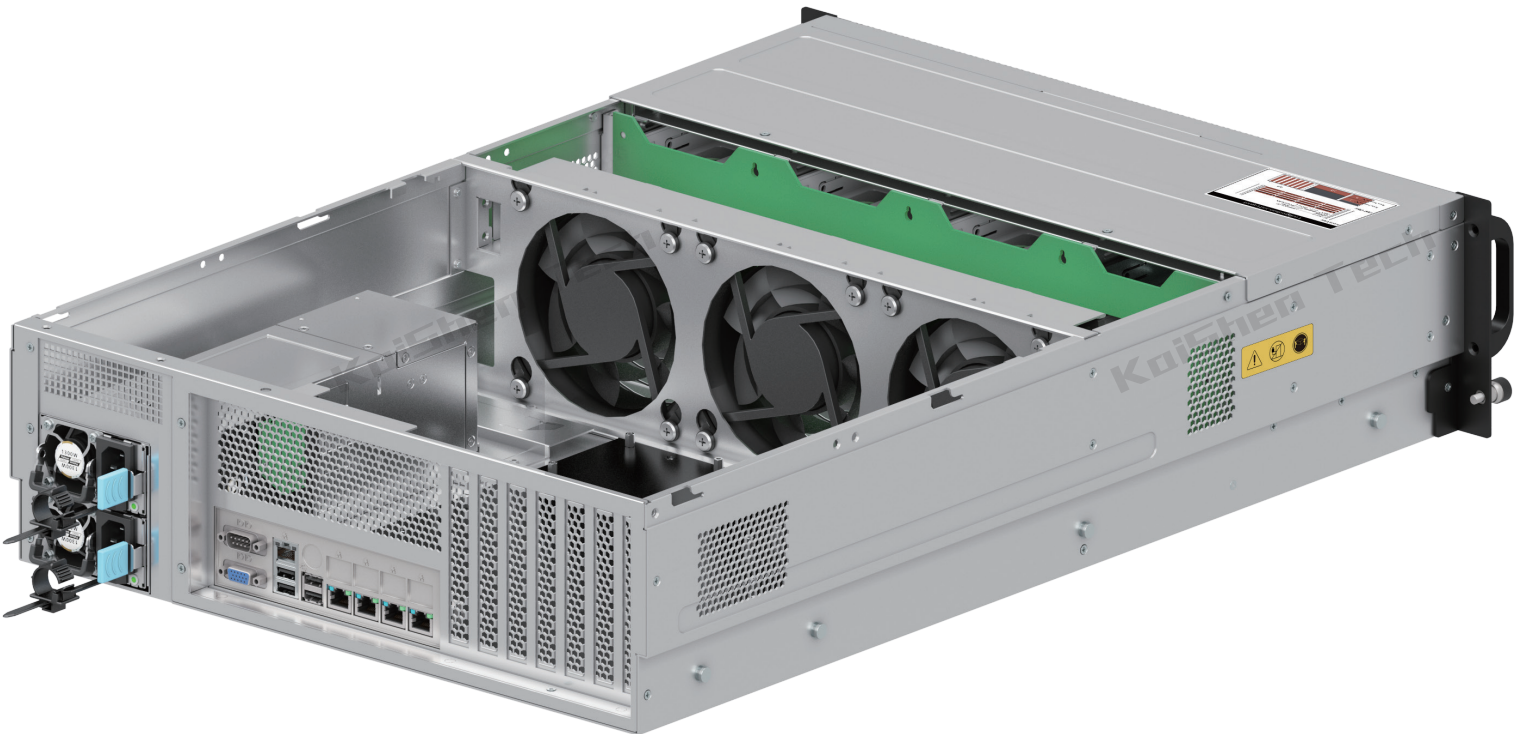
3.3.1 Installation Steps :

Place the power supply unit downward onto the bottom of the chassis, then push it towards the rear end. Secure it with three screws at the rear, and two screws from the bottom.

Note: Different power supply units may have slight variations in screw locations and quantity.
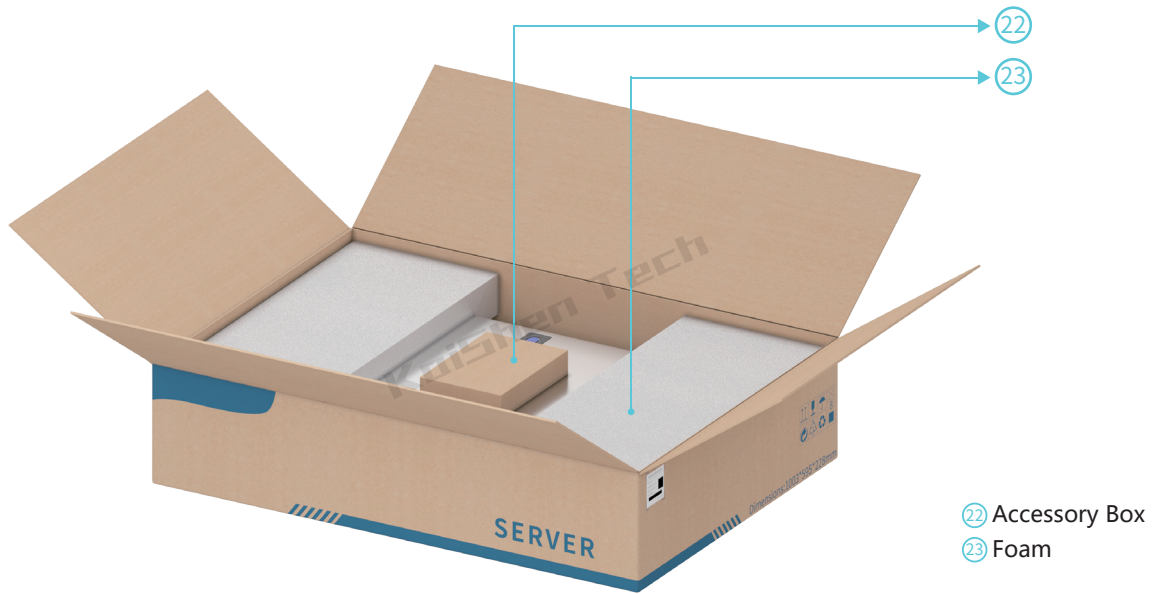
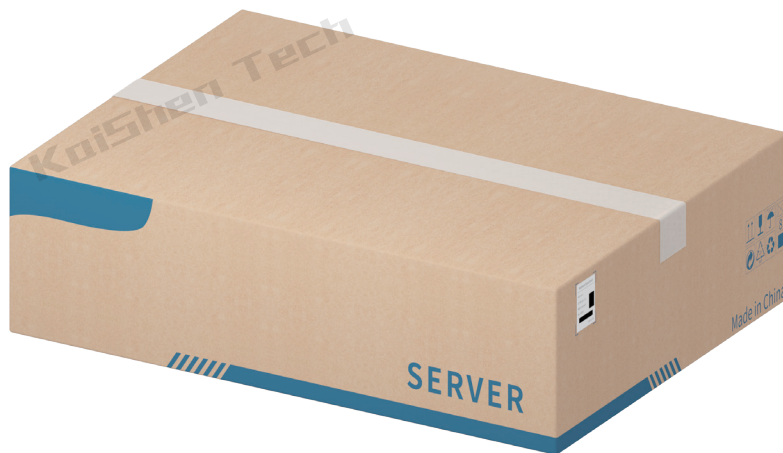Insert power supply modules 1 and 2 into the power supply frame respectively

View of Installed Power Supply Unit

Chapter 4　Product Loading

4.1 Product Packaging

22 Accessory Box
23 Foam

Place it into the suitcase

Seal the suitcase

Chapter 5   Product and Rail Installation

5.1 Install inner rails on both sides of the chassis

5.1.1   Securely attach the inner rail to the side wall of the chassis, and ensure that the inner rail's latch engages with the chassis T-pin.
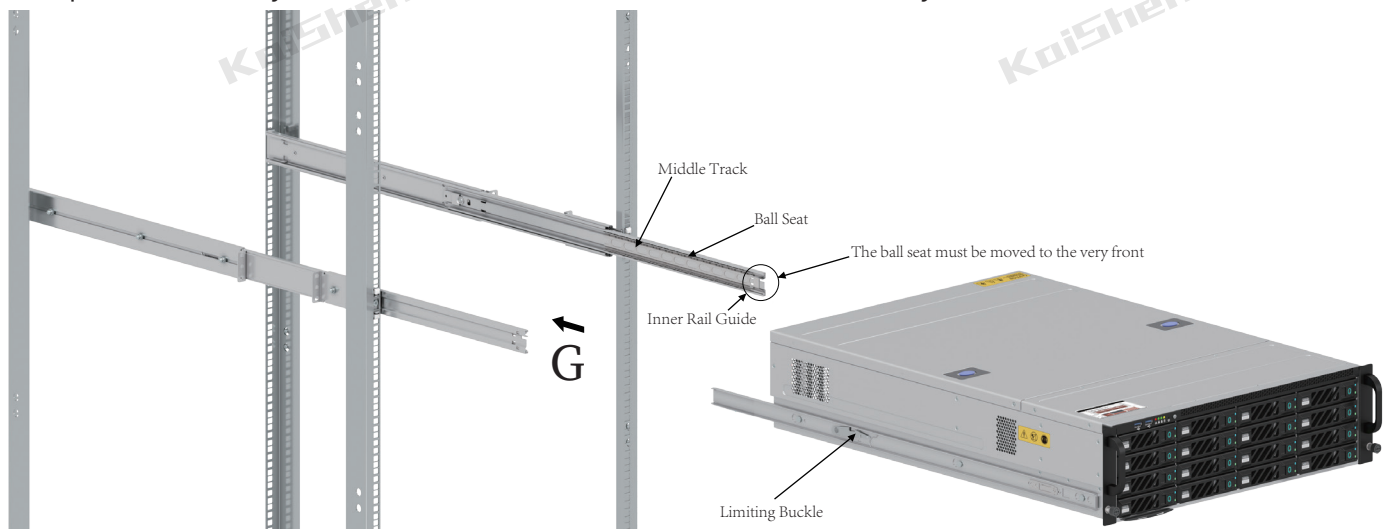
Inner Rail Spring Clip   Chassis T-pin

The inner rail spring clip engages with the chassis T-pin.

5.2 The chassis is mounted into the rack

(Note: Depending on the weight of the chassis, this step requires the cooperation of 2 to 4 people.)

5.2.1   First, move the ball seat to the front end of the middle track. Then, along the G direction, horizontally insert the inner rail of the chassis into the ball seat.

5.2.2   When installing the rails, ensure that both sides of the server are kept level, and insert the inner rails simultaneously in a horizontal direction.

5.2.3   Ensure that the inner rails have entered the guides and ball seats before proceeding to push them into the chassis.

5.2.4   Only release the chassis after confirming that the inner rails have entered at least half of the ball seats.

5.2.5   There is a limiting buckle on the inner rail. When pushing it into the second section, you need to flip this buckle to enter the third section for complete closure

5.2.5   If you find that the inner rails have not entered the ball seats, please repeat the above steps. If necessary, you can use your hand to assist the inner rails into the ball seats.

5.2.6   Unlock both levers on the sides, then push the chassis to fully close it. Perform at least one complete open and close cycle of the chassis to ensure the slides are correctly installed.

Middle Track

Ball Seat

The ball seat must be moved to the very front

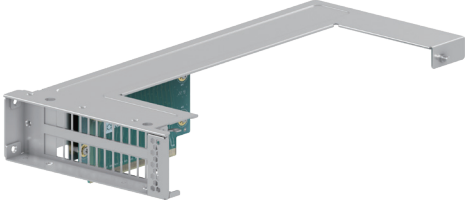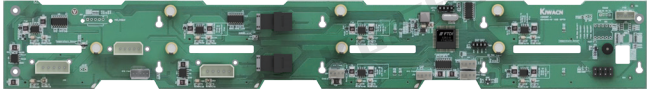Inner Rail Guide

G

Limiting Buckle

Note: Please make sure to insert horizontally in this direction. Otherwise, it may damage the ball seats and cause the slides to not function properly.

Chapter 6   Accessory Name and Part Number

6.1 Accessories and Material Numbers(Parts Box P/N:0201070009)

No.	Part No.	Name	Photograph	Quantity
01	P/N: 0305010001	2.5-inch hard drive screws (Compatible with 3.5-inch hard drive bay)		56
02	P/N:0305010031	3.5inch hard drive screws		48
03	P/N:0305010124	2.5-inch Hard drive retaining screws		4
04	P/N:0305070003	Motherboard heightening column (Motherboard thickness1.6mm)		12
05	P/N:0305010203	Motherboard screws		12
06	P/N:0202110015	2.5Hard drive holder (2U8)		2
07	P/N:0305010125	Fixed single power/ATX		3
08	P/N:0305010025	Fixed redundancy		8
09	P/N:04.02.0009	hard drive sticker (00-11)	HDD 00 SAS/SATA	1

6.2 Optional Accessories List

No.	Part No.	Name	Photograph
01	P/N:0304100006	Slide Rail	
02	P/N:0201030001	Bracket Assembly	
03	P/N:0201090001	riser moudle	
04	P/N:0304090001	cable	
05	P/N:0302060008	6GB backet plane	
06	P/N:0201120006	2.5 moudle	