

# 2U8-BAY SERIES SERVER CHASSIS

## Product Manual V2.0

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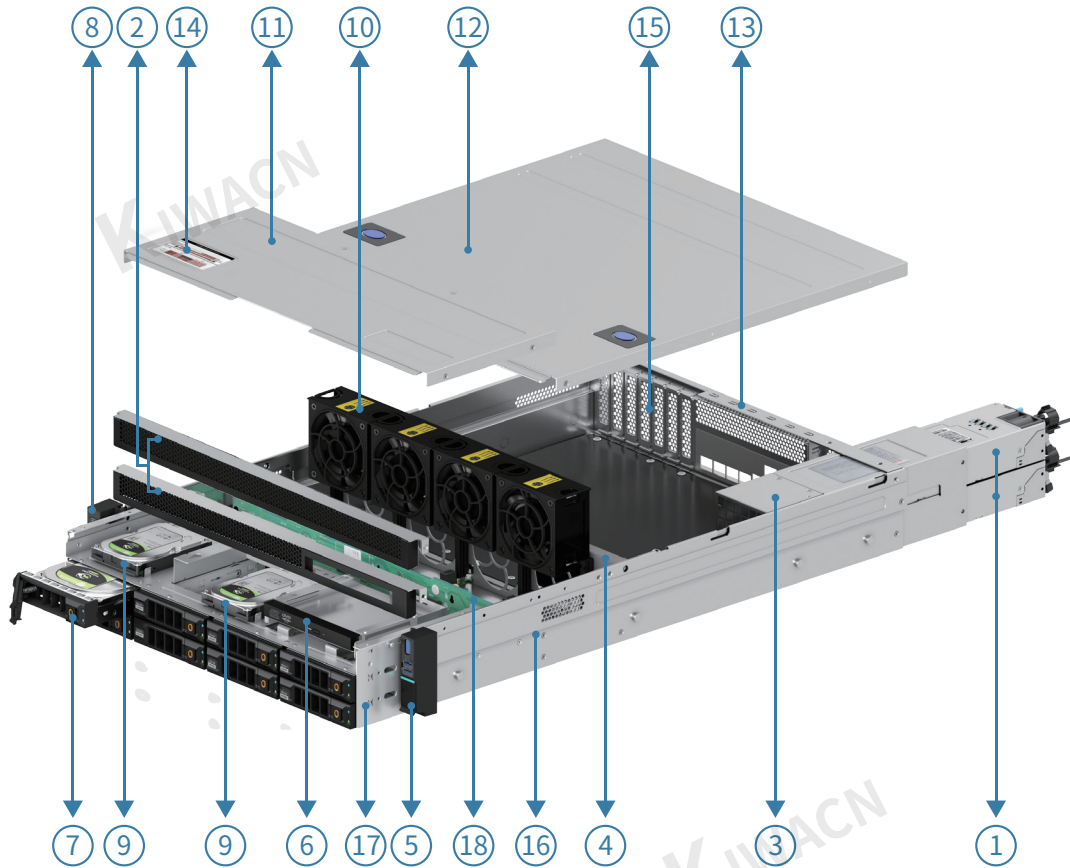
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# Chapter 1: Product Introduction

## 1.1 Product Features

Product Code	K22008	K22026	K22015	K22016	K22017
Chassis category	2U Rack mount				
Material	1.2mm SGCC(Taiwan)				
MB Form Factor	Extended ATX (12"x 13")				
Dimensions (D*W*H)	660 * 435 * 88.1(mm) 25.98"x 17.12"x 3.47 "				
Drive Bays	3.5"Hot-swap: 8 , 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/Off , 1 * System Reset, 1 * UID, 2 * USB 2.0 , USB3.0 + VGA(Option) , 1 * CD-ROM drive(Option)				
Safety Device	Intrusion Switch (Option)				
Cooling Fans	Middle : 3 x 80 mm (T=38mm) , PWM , 7500RPM		Middle : 2 x 80mm (T=38mm) , PWM , 15000RPM Middle : 1 x 80mm (T=38mm) , PWM , 7500RPM		
Expansion Slots	Length or 7 x Low Profile	Length or 9 x Low Profile	Supports 2nd PCIE, 3X Full Height	Supports 3rd PCIE, 3X Full Height	Supports 4nd PCIE, 3X Full Height
Riser card module	NO		PCIE16x 3.0, PCIE16x 4.0(Option)		
HDD Backplane	8-port 12Gb/s - SAS, 8-port 6Gb/s - SAS (Option), three model (nvme/u.2/12gb/s) backplane(Option)				
Rack rails	P/N:0304100006(Option)				
Net Weight	10.75kg				
Gross Weight	13.1kg				
Package size(D*W*H)	730x620x220mm				

## 1.2 Chassis Structure



- |  |                                     |
|--|-------------------------------------|
| 1. Power Supply  | 10. Fan Module                      |
| 2. Front Panel (Choose One)                                    | 11. Front Cover                     |
| 3. Power Supply Bracket  | 12. Rear Cover                      |
| 4. Fan Wall  | 13. Rear Window Assembly            |
| 5. Right Bracket Assembly (M: Aluminum Alloy)                  | 14. Chassis Layout Diagram Sticker  |
| 6. CD-ROM drive (Optional)                                     | 15. Standard 7 PCIe Expansion Slots |
| 7. 3.5-inch Hard Drive Tray<br>(Supports 2.5-inch Hard Drives) | 16. Chassis Base                    |
| 8. Left Bracket Assembly (M: Aluminum Alloy)                   | 17. 2U 8 Hard Drive Cage Assembly   |
| 9. Internal 2.5-inch Hard Drive<br>Mounting Bracket            | 18. Hard Drive Backplane            |

## 1.3 Description of Front Panel and Hard Drive Bay

### 1.3.1 Front Panel and Indicator Lights:



HD00	HD01	HD02	HD03
HD04	HD05	HD06	HD07

- 1. Server Information Label
- 2. Expand VGA Port
- 3. USB 3.0 x 2
- 4. USB 2.0 x 2
- 5. Power Button + Power Indicator Light
- 6. UID Button + Indicator Light
- 7. Reset Button
- 8. HDD Indicator Light
- 9. Fault Indicator Light
- 10. Ethernet Port 1 Indicator Light
- 11. Ethernet Port 2 Indicator Light

#### Control Panel Buttons and Interface Description:

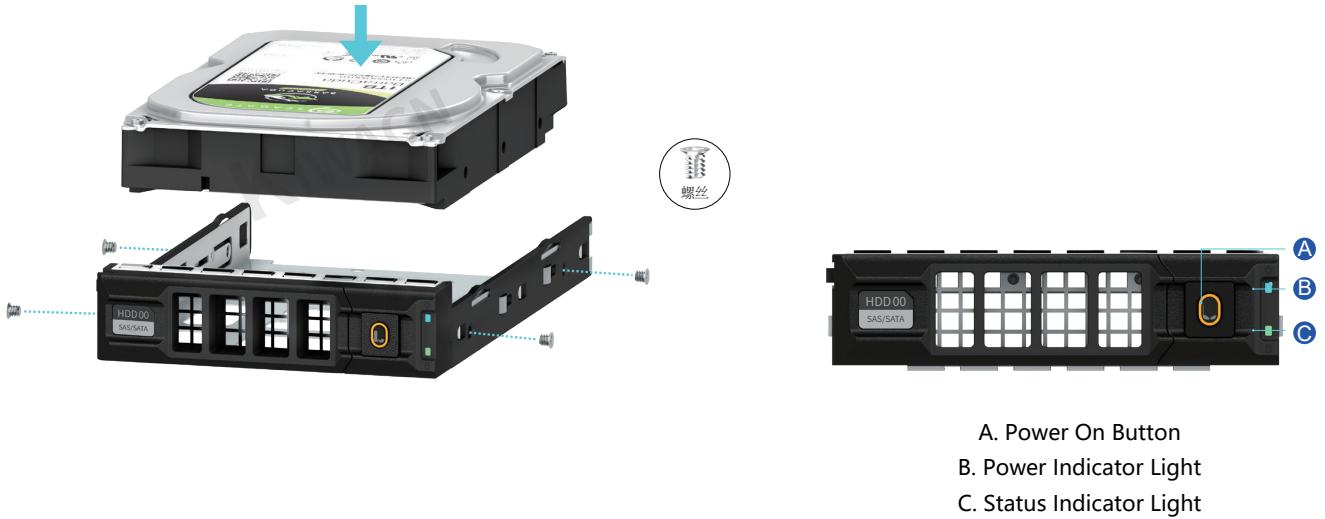
Power Button	Power button, press once to power on when the system is powered; In the powered-on state, press and hold for 5 seconds to shut down the system.
Reset Button	In the powered-on state, press once to restart the device.
UID Button	In the powered-on state, press once to illuminate the indicator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

#### Control Panel Indicator Light Explanation:

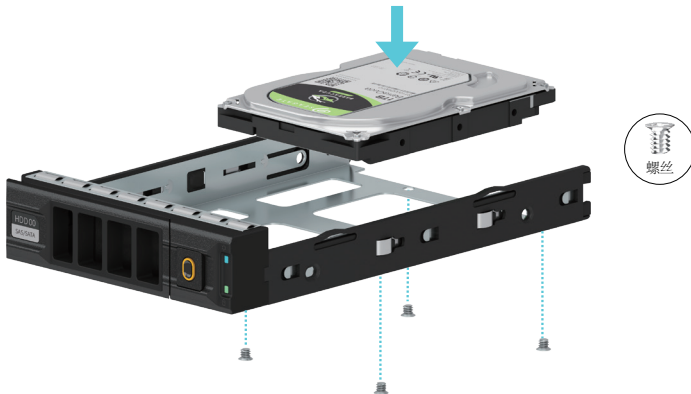
Name	Color	Status	Description
Power Light	Blue	On	The server is in the powered-on state.
UID Light	Blue	On	The server is in the located state.
Fault Indicator Light	Red	On	The server is experiencing a malfunction.
Network 1 Indicator Light	Green	On	The network connection is normal.
Network 2 Indicator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

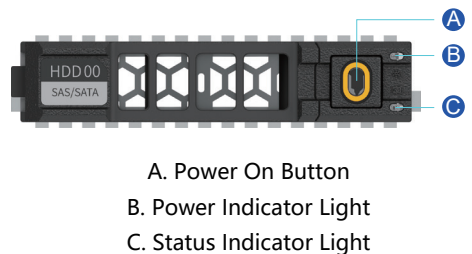
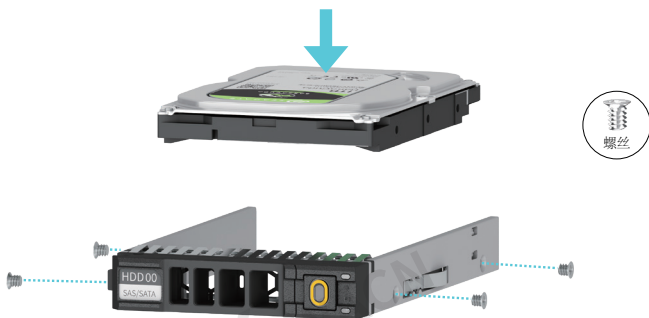


2.5-inch Hard Drive Installation Guide:



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:

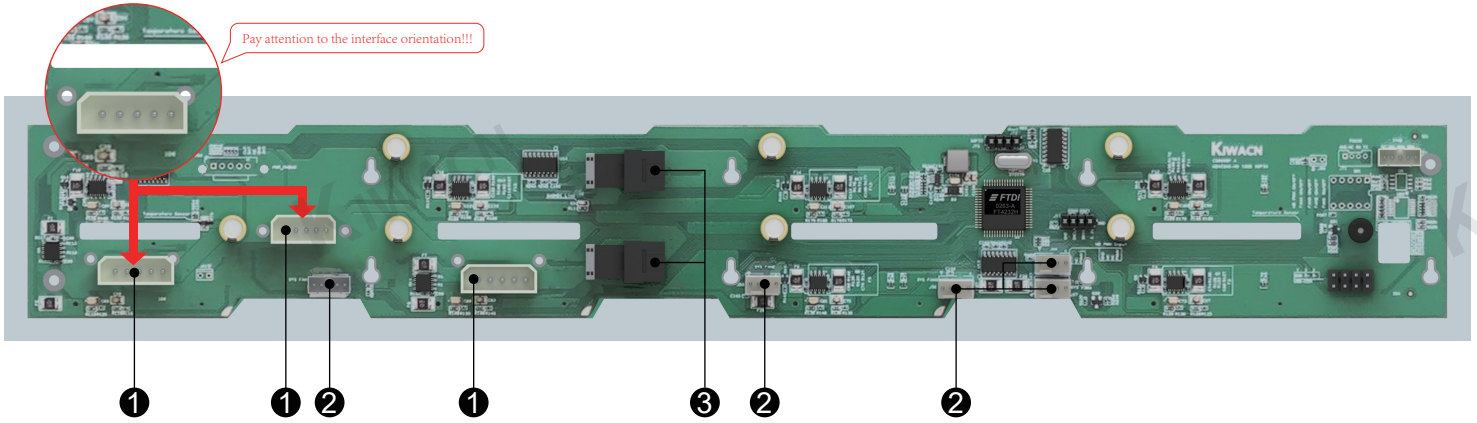


Hard Drive Tray Indicator Light Instructions	
B	Blue: Hard Drive Powered On
C	Solid Green: Hard Drive in Position
	Flashing Green: Hard Drive Activity
	Solid/Flashing Red: Hard Drive Failure

## 1.4 Hard Drive Backplane

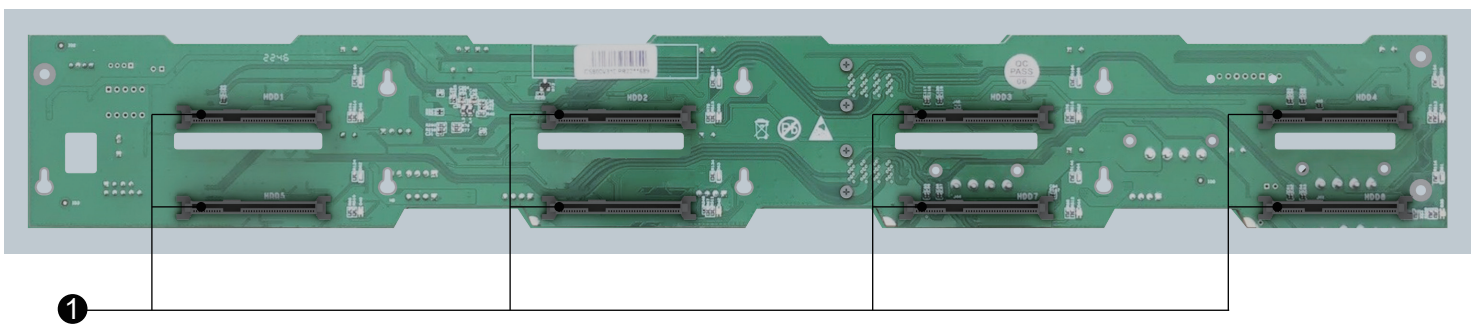
### 1.4.1 8-Bay 12GB Direct Attached Backplane P/N:0302060009

TOP Plane:



Label	Device Description	Function Description	Location Identifier
1	ATX 4-pin Power Connector	Backplane Power Transmission Connector for 12V Power Supply. <i>(Pay attention to the interface orientation)</i>	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

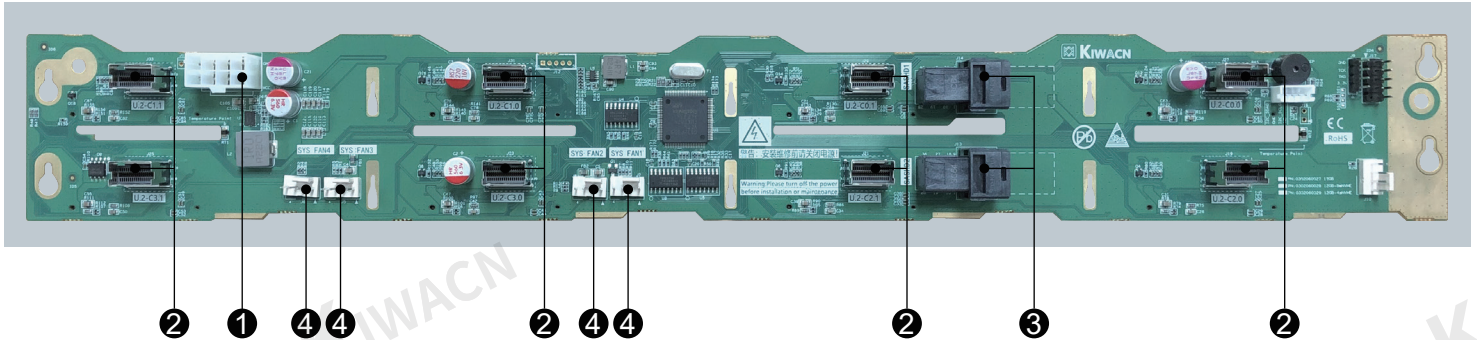
BOTTOM Plane:



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

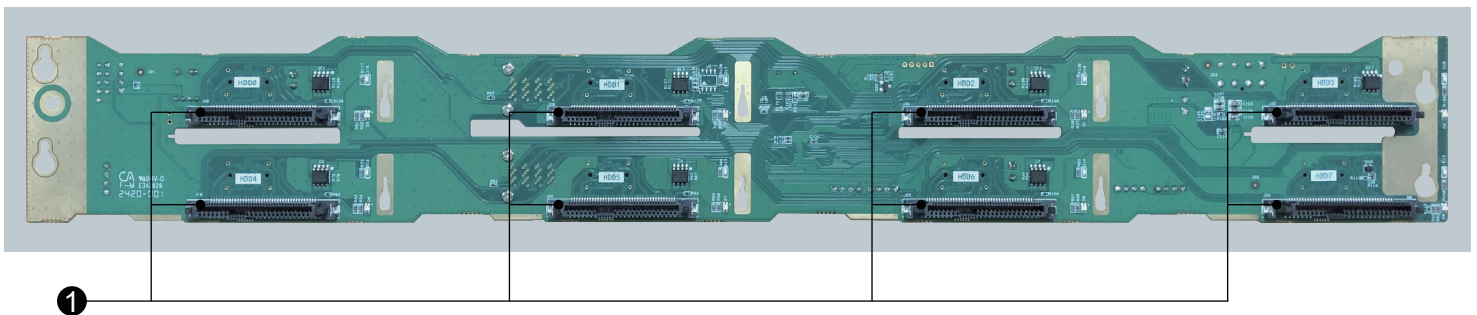
1.4.2 8-bay 3-module backplane P/N:0302060028  
 12GB/s NVME4.0 Directly connected to the backplane

TOP Plane:



No.	Device Description	Functional Description	Position
1	8P power supply interface	Backplane power supply	J1
2	8654/4i	NVME 4.0/4i	U.2-C0.0, U.2-C0.1, U.2-C1.0, U.2-C1.1, U.2-C2.0, U.2-C2.1, U.2-C3.0, U.2-C3.1
3	8643 interface	Backplane disk signal interface	SASHD1, SASHD2
4	4Pin interface	FAN interface	FAN1 , FAN2, FAN3, FAN4

BOTTOM view:

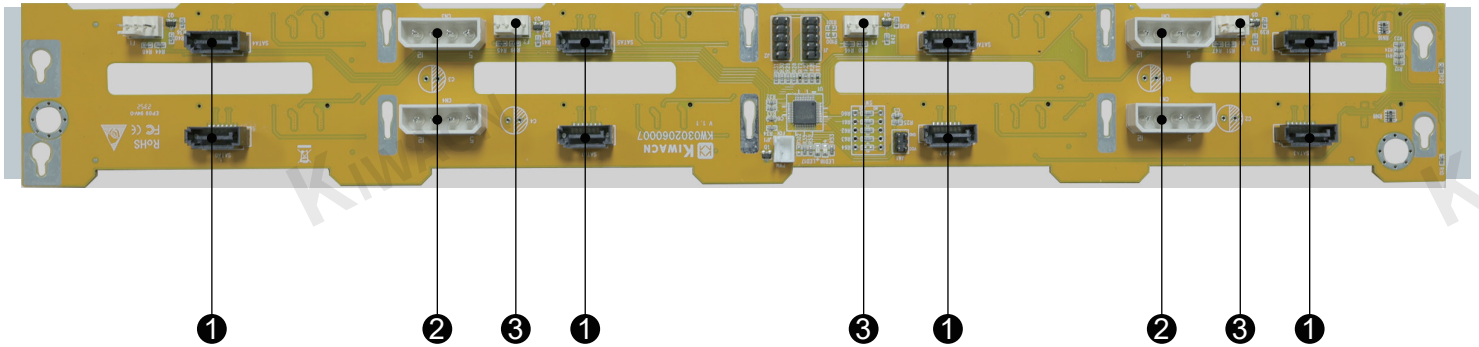


No.	Device Description	Functional Description	Position
1	SAS/SATA Hard disk connector	1. Compatible with 12Gb/s & 6GB/s NVMEtransmission speed; 2. Support SAS/SATA hard disk hot-swap.	HDD0,HDD1, HDD2, HDD3,HDD4, HDD5, HDD6,HDD7



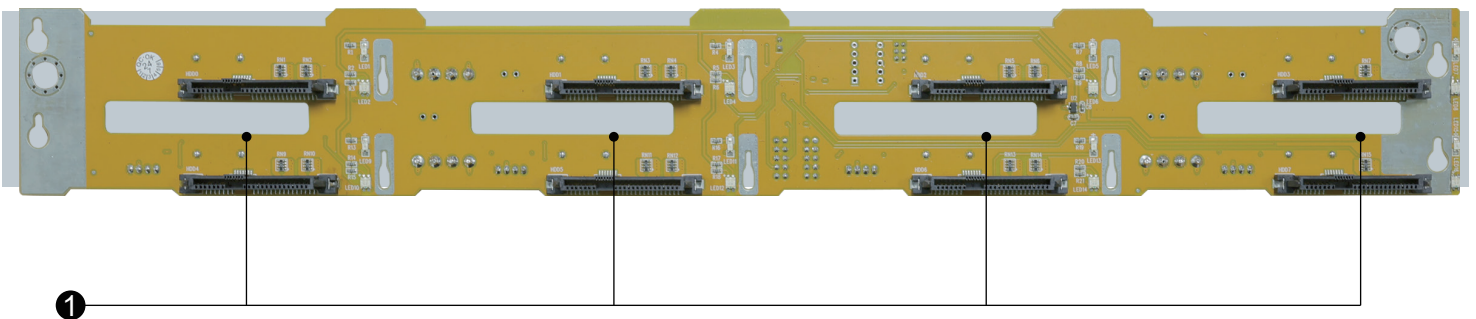
- 1.4.3 8-bay P/N: 03020060007  
6GB direct-connect backplane

TOP Plane:



No.	Device Description	Functional Description	Position
1	SATA interface	Support SAS/SATA hard disk hot swap	SATA0, SATA1, SATA2, SATA3
2	4P power supply interface	Backplane power transmission connector, used for 12V power transmission. <i>(Note the direction of the interface)</i>	CN1, CN2
3	fans interface	For 4pin fan interface	F1, F2, F3

BOTTOM view:

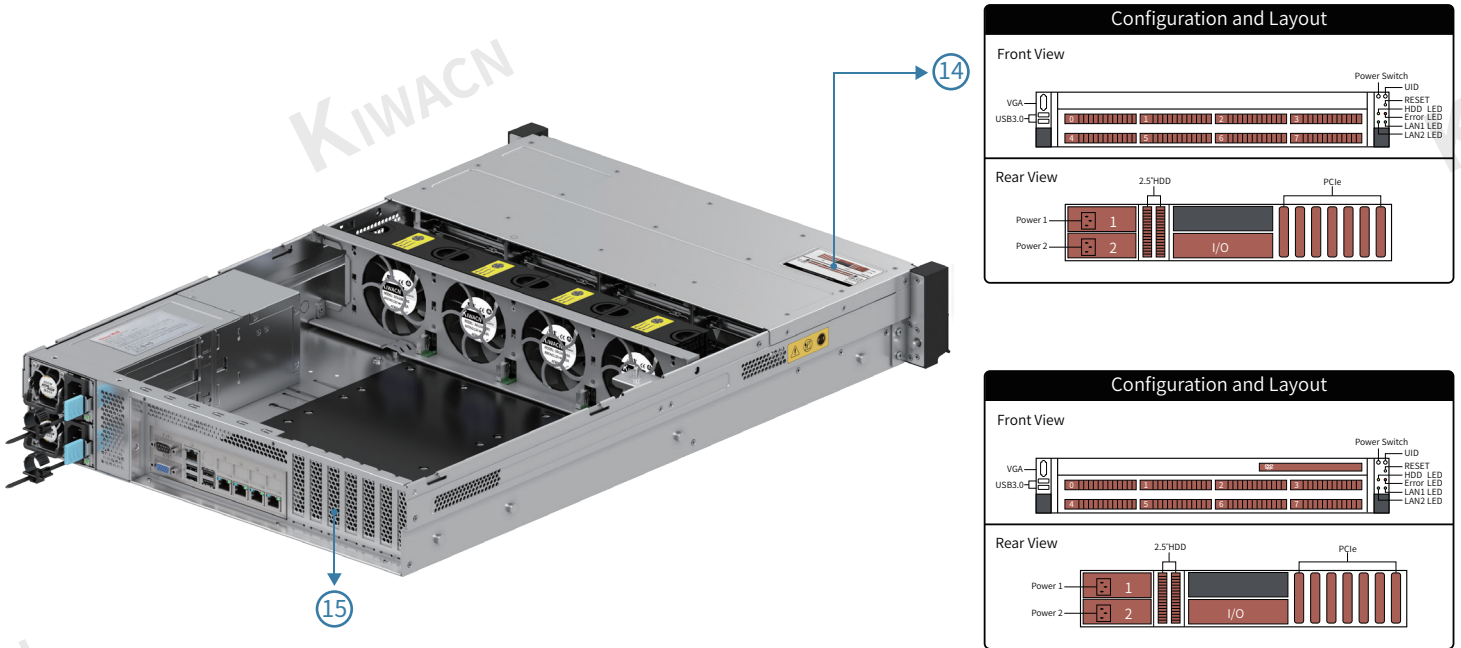


No.	Device Description	Functional Description	Position
1	SAS/SATA Hard disk connector	1. Supports up to 6G/b SATA hard disks; 2. Supports hot-swap SAS/SATA hard disks.	HD000, HD001, HD002, HD003

# Chapter 2: Product Appearance

## 2.1 Chassis Structure

### 2.1.1 Chassis Diagram

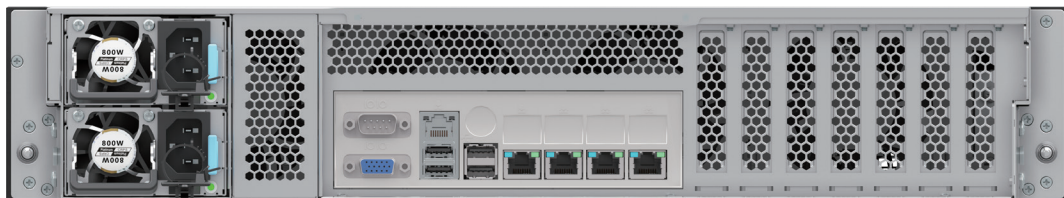


Notice: Caution, High Voltage Hazard



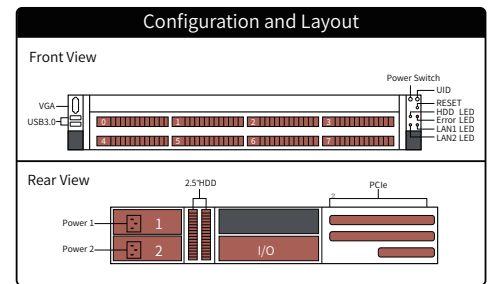
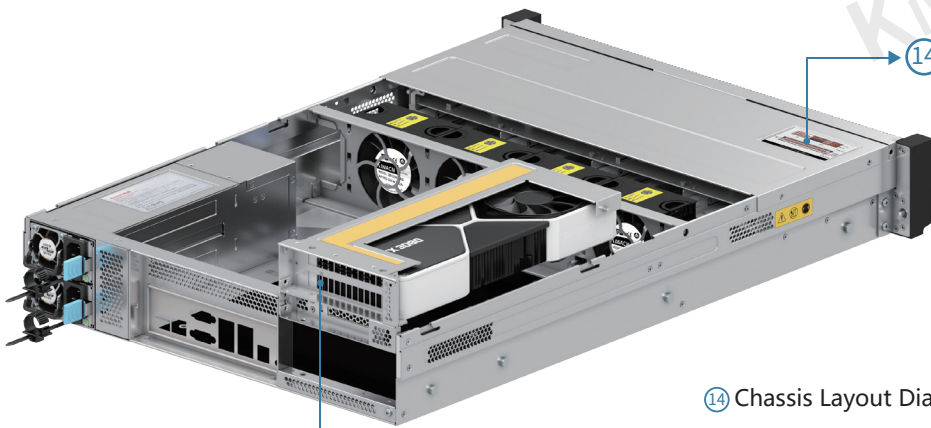
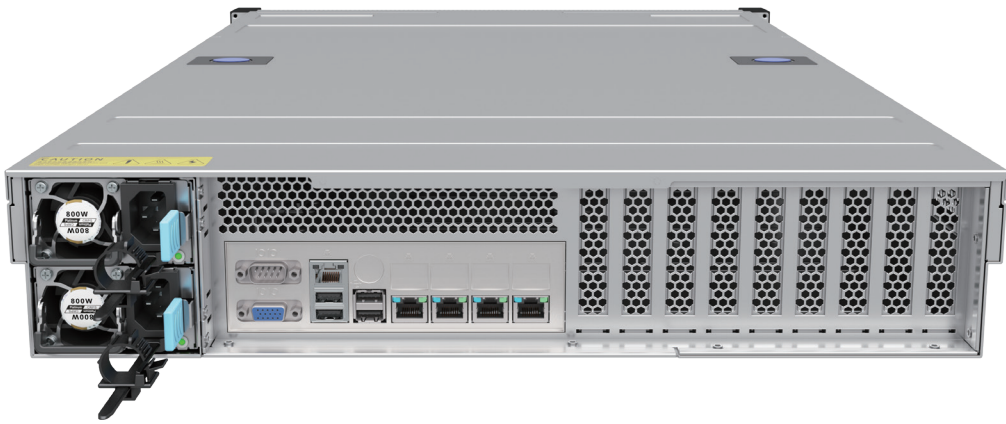
Notice: Do not place liquids, handle with care

⑭ Chassis Layout Diagram Sticker    ⑮ Standard 7 PCIe Expansion Slots





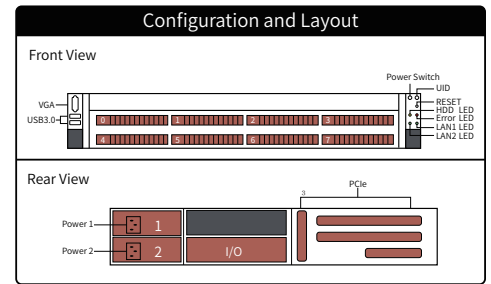
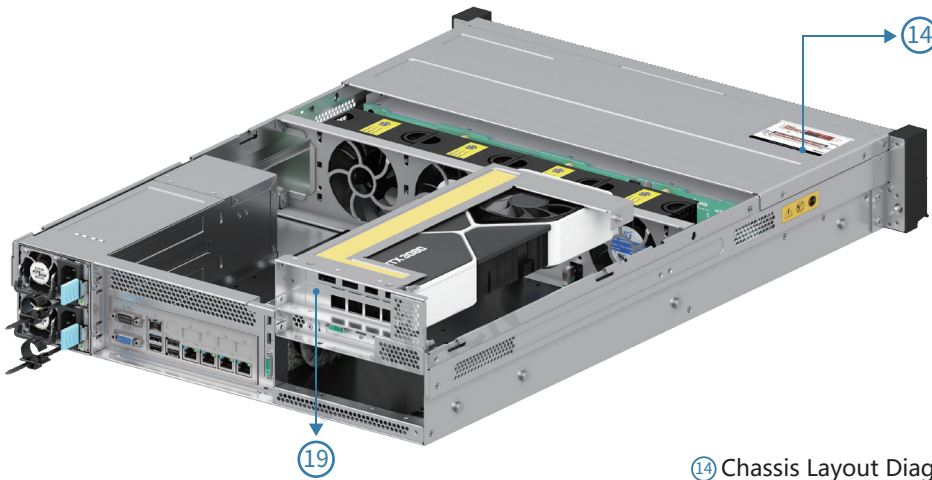
⑰ 9 PCIe Expansion Slots



⑭ Chassis Layout Diagram Sticker

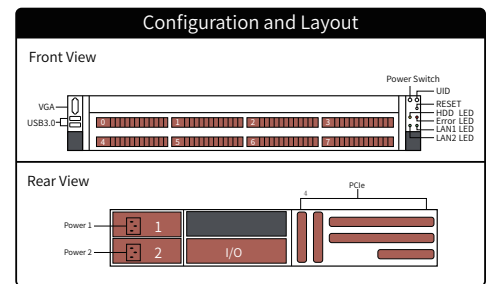
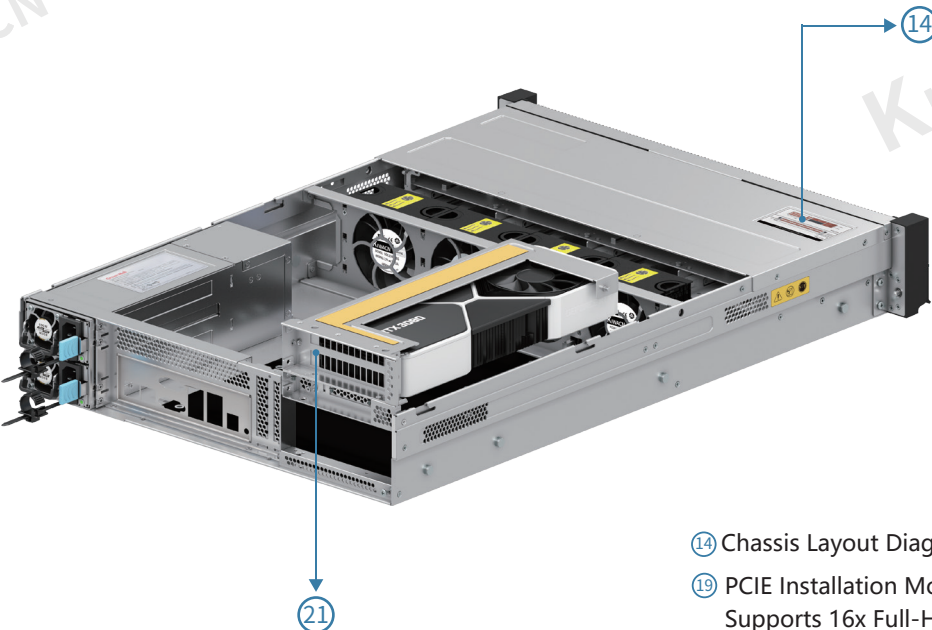
⑲ PCIe Installation Module (Motherboard Slot 2 Horizontal Rotation)  
Supports 16x Full-Height PCIe and 8x Half-Height PCIe





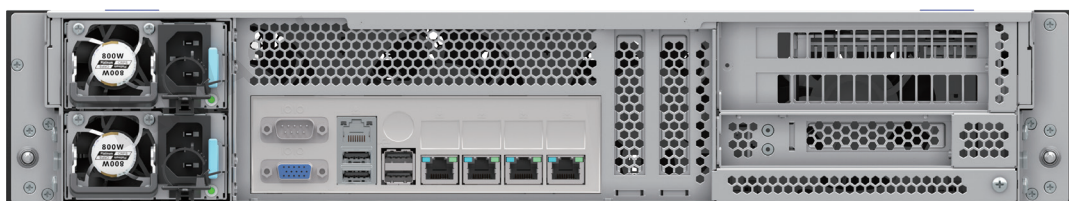
⑭ Chassis Layout Diagram Sticker

⑲ PCIe Installation Module (Motherboard Slot 3 Horizontal Rotation)  
Supports 16x Full-Height PCIe and 8x Half-Height PCIe



⑭ Chassis Layout Diagram Sticker

⑲ PCIe Installation Module (Motherboard Slot 4 Horizontal Rotation)  
Supports 16x Full-Height PCIe and 8x Half-Height PCIe



## 2.1.2 Server Chassis Images



Front View

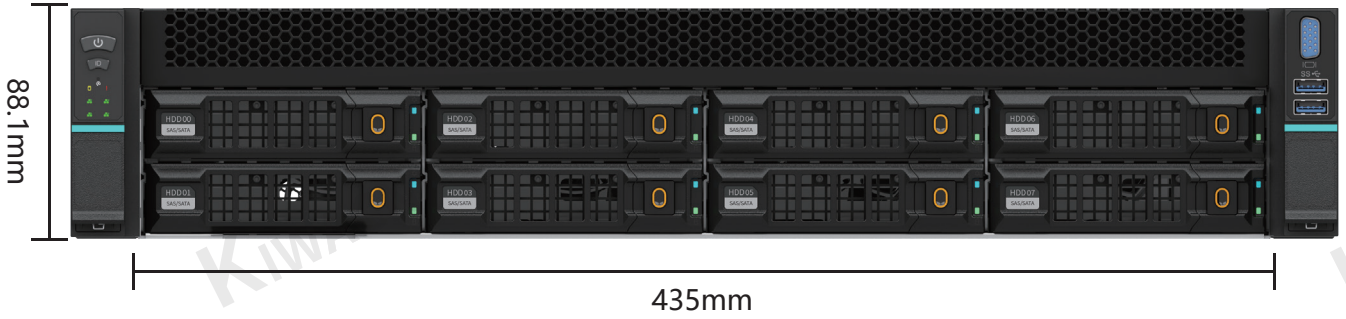


45° Side View

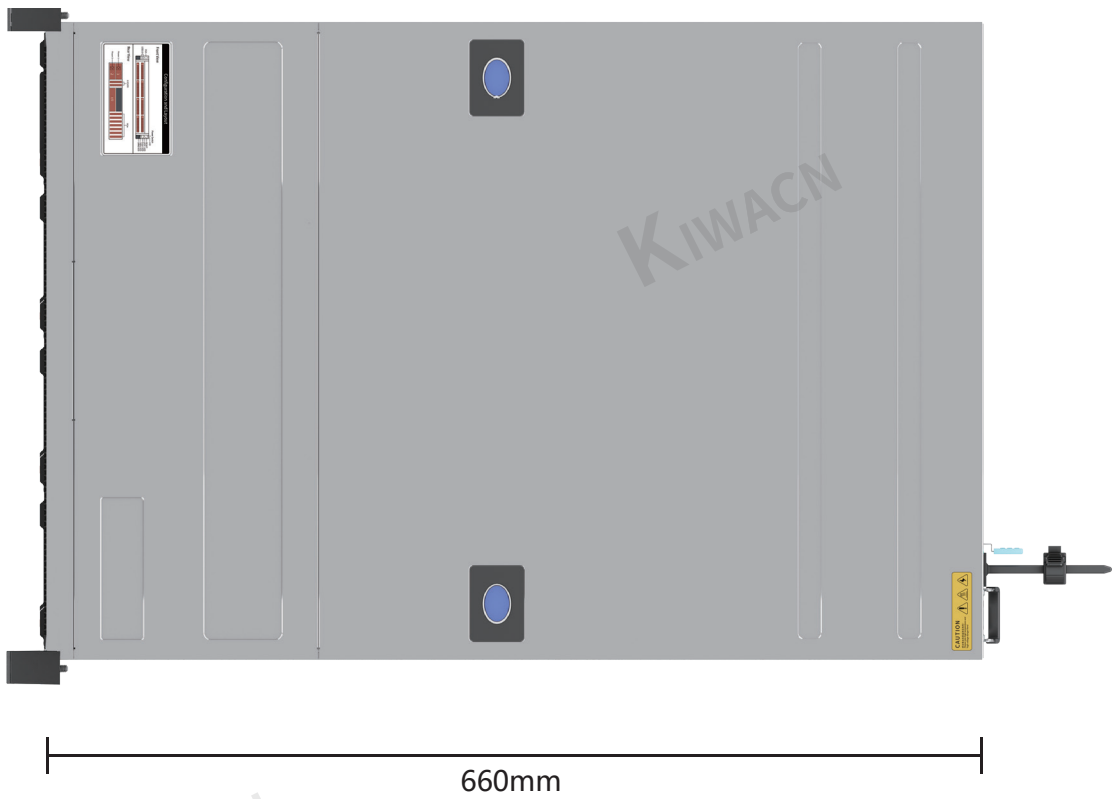


45° Rear View

### 2.1.3 Server Dimensions



Front View (Dimensions)



Top View (Dimensions)

## Chapter 3 Product Loading and Unloading

### 3.1 Installation of Optical Drive

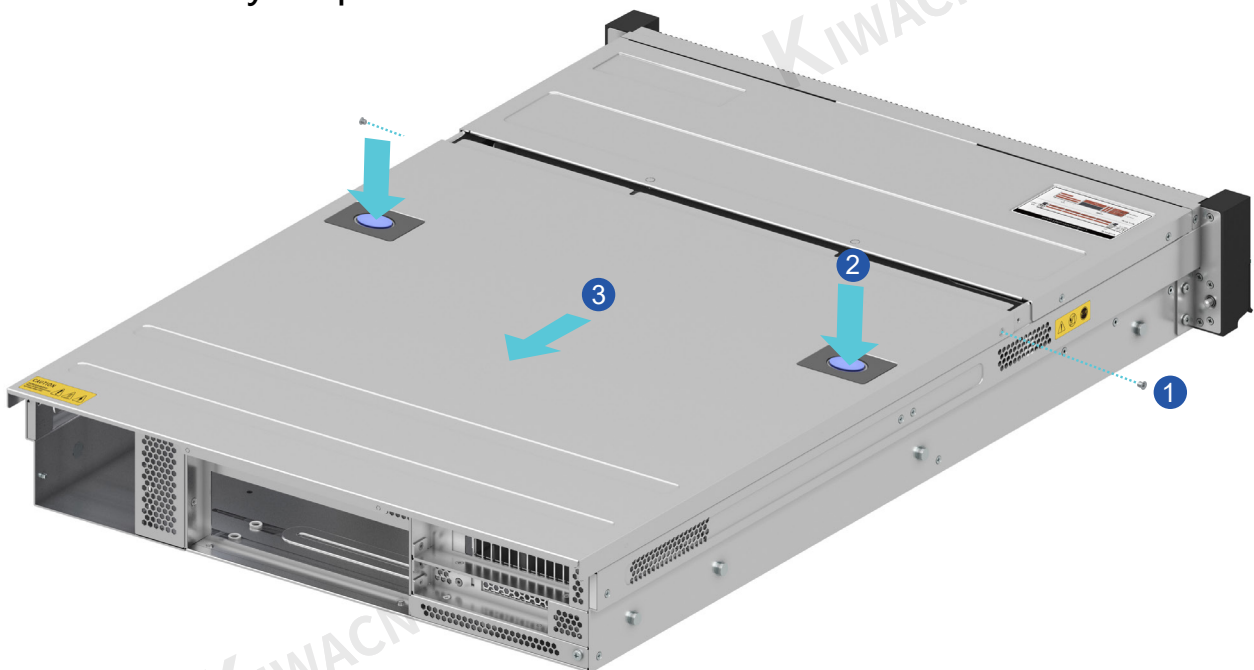
#### 3.1.1 Steps of Installing the Optical Drive:



Install the drive bracket in the direction of the arrow, and tighten the screws

### 3.2 Removal of the Rear Top Cover

#### 3.2.1 Disassembly Steps:

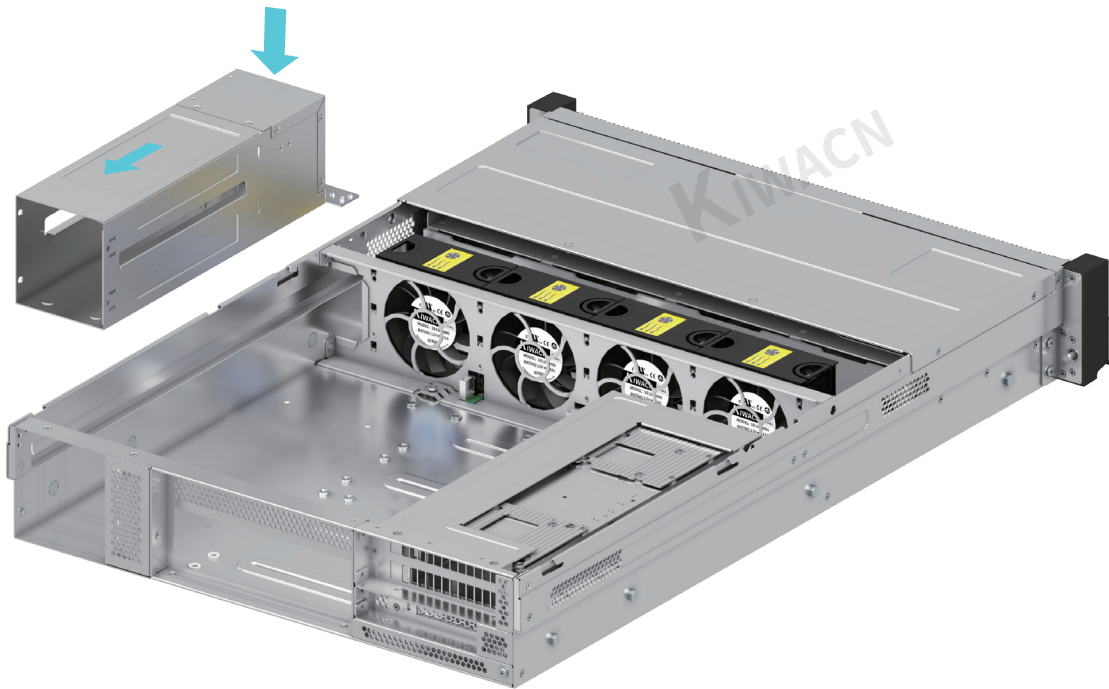


1. Loosen the screws at both ends of the upper cover as shown in the diagram, using your hands;
2. Slide the top cover towards the back in the direction of the arrow;
3. Lift off the top cover in the direction indicated by the arrow.



### 3.3 Installation of the Power Supply

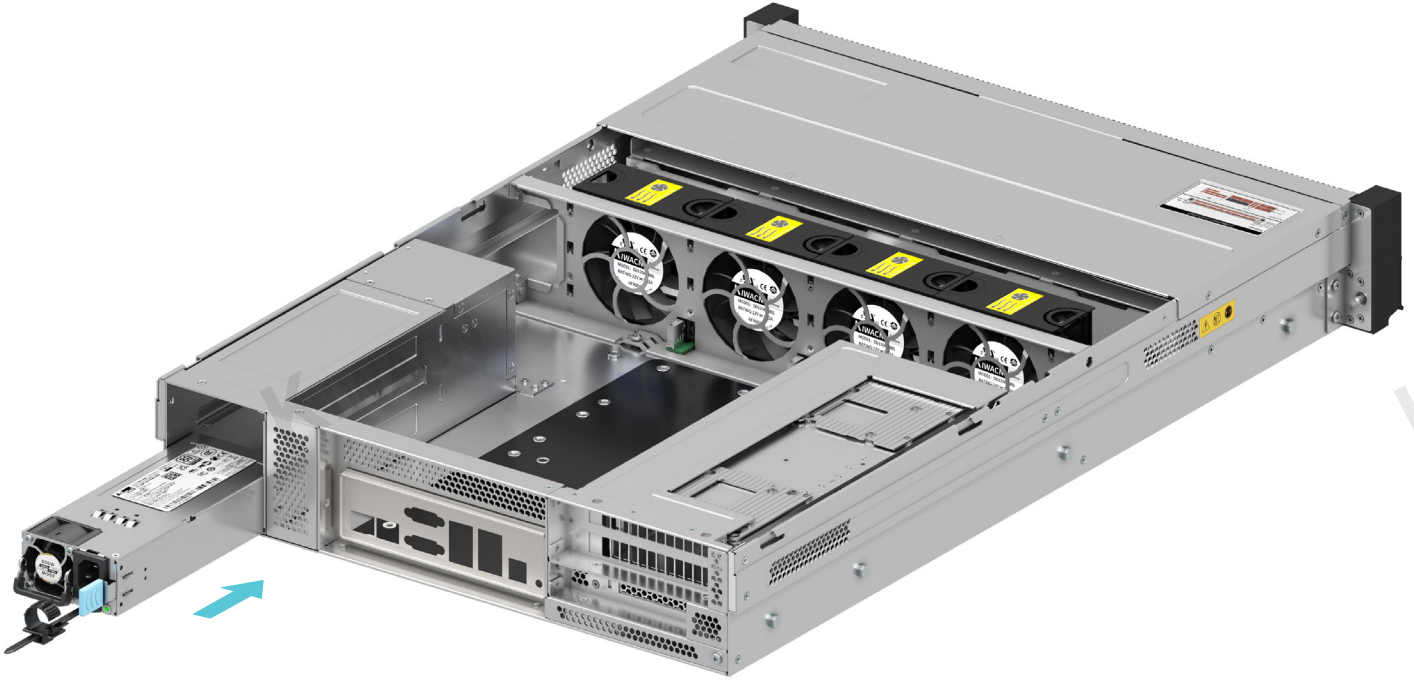
#### 3.3.1 Installation Steps :



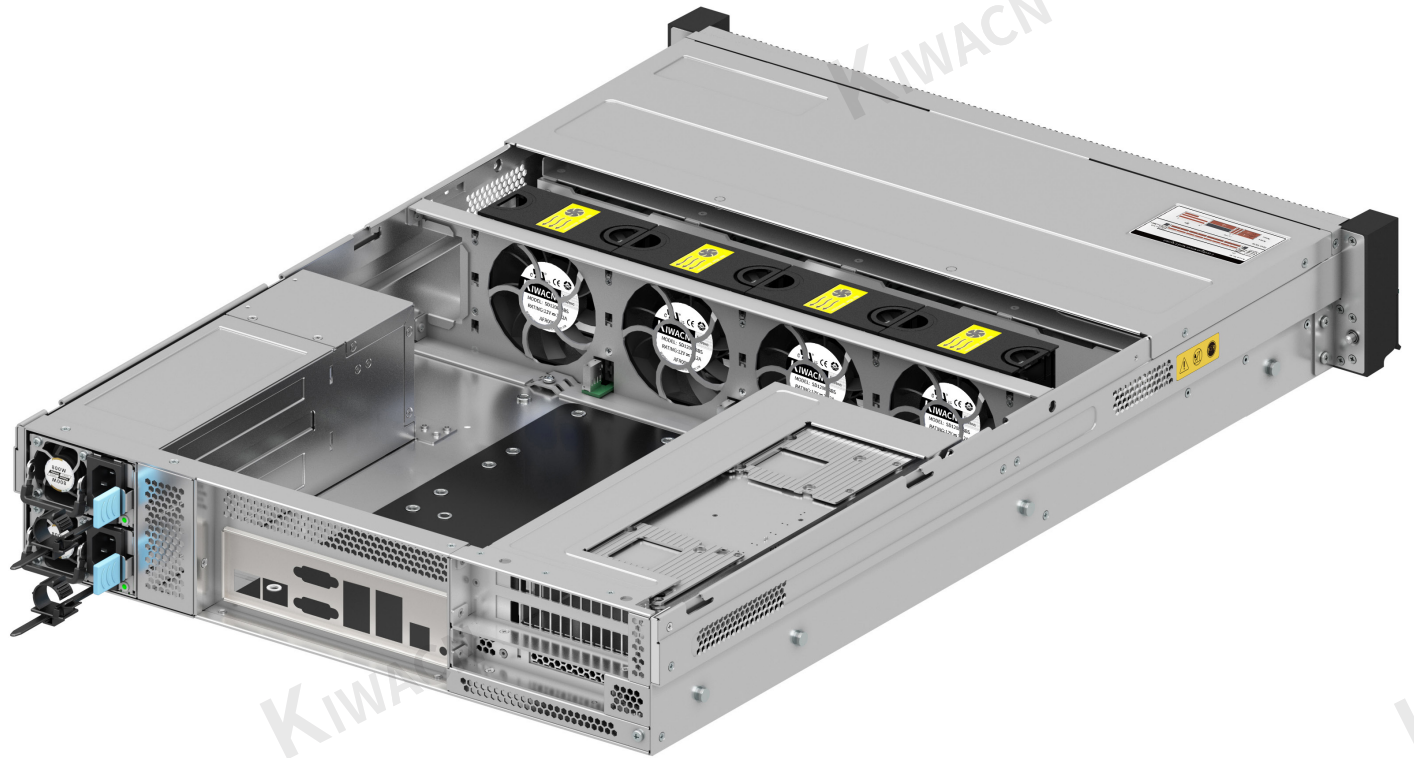
Place the power supply unit downward onto the bottom of the chassis, then push it towards the rear end. Secure it with three screws at the rear, and two screws from the bottom.

Note: Different power supply units may have slight variations in screw locations and quantity.





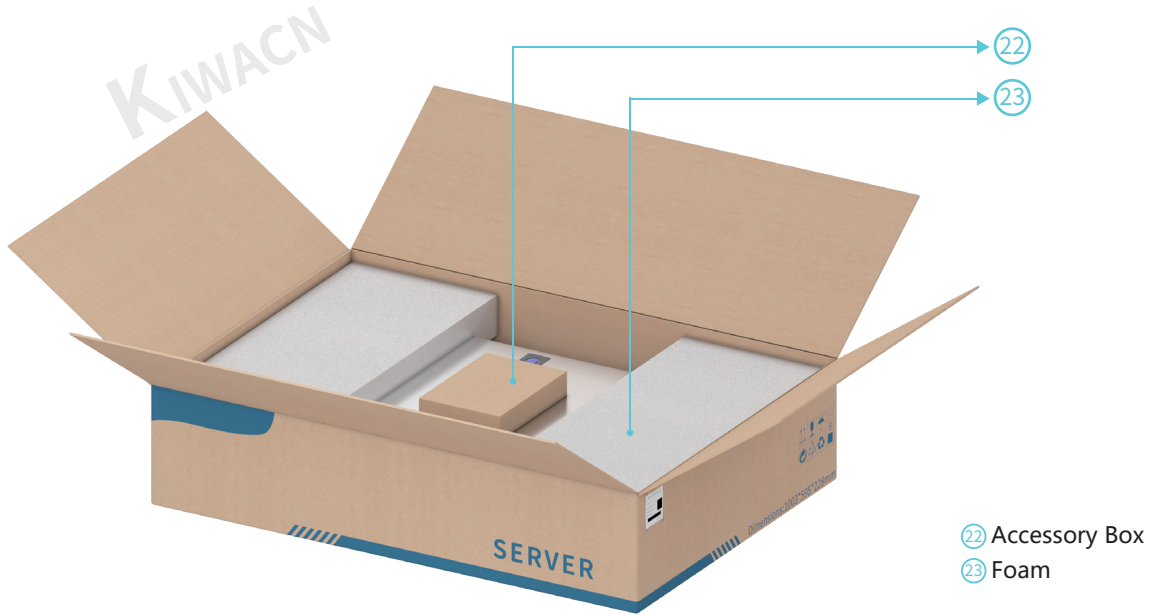
Insert power supply modules 1 and 2 into the power supply frame respectively



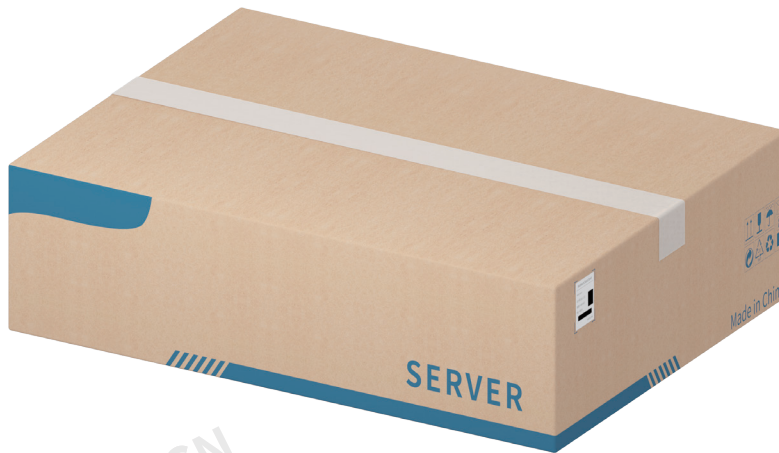
View of Installed Power Supply Unit

## Chapter 4 Product Loading

### 4.1 Product Packaging



Place it into the suitcase

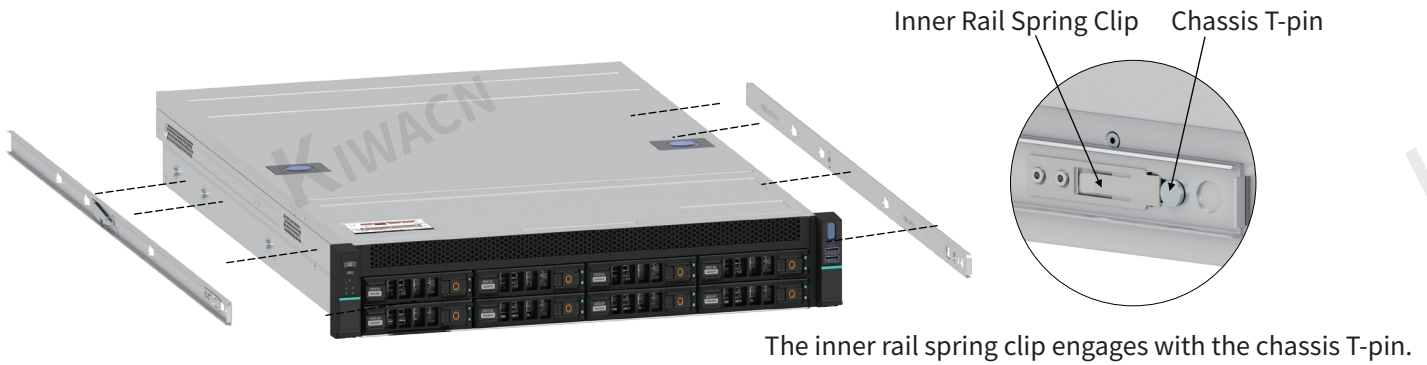


Seal the suitcase

## Chapter 5 Product and Rail Installation

### 5.1 Install inner rails on both sides of the chassis

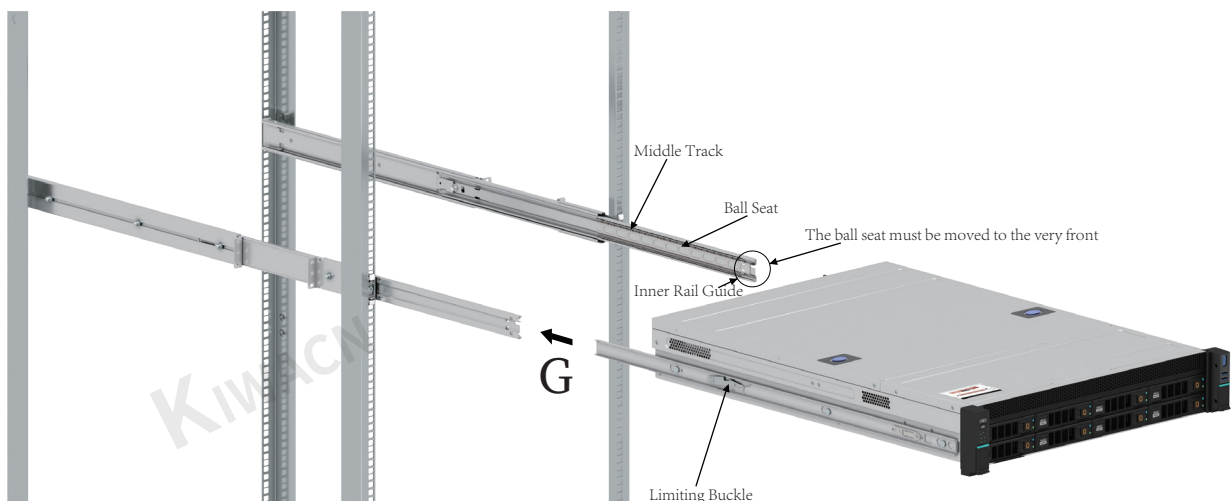
5.1.1 Securely attach the inner rail to the side wall of the chassis, and ensure that the inner rail's latch engages with the chassis T-pin.



### 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.



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.



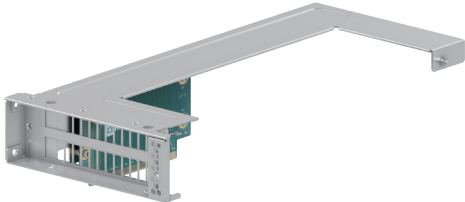



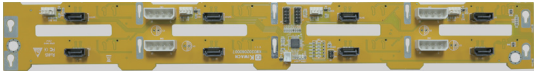

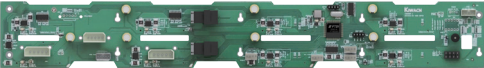
## Chapter 6 Accessory Name and Part Number

### 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)		1

## 6.2 Optional Accessories List

(visit the website for the detail parameter: <https://kiwaworld.com/product/10.html>)

No.	Part No.	Name	Photograph
01	P/N:0304100006	Slide Rail	
02	P/N:0201030001	Bracket Assembly	
03	P/N:0201090001	riser mouldle	
04	P/N:0304090001	SAS (8643) cable	
05	P/N:0304090012	SAS (8643) cable	
06	P/N:0304090026	NVME cable (8654 4i to 8i)	
07	P/N:0302060008	6GB backet plane	
08	P/N:0201120006	2.5 mouldle	
09	P/N:0201120028	8bays three models (nvme/u.2/12GB backplane)	
10	P/N:0304010016	1+1redundant power (550w)	