

SYR8108G-G5 GPU Server User Manual

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Shenzhen Gooxi Digital Intelligence Technology Co., Ltd



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Foreword

This manual is the product technical manual for the SYR8108G-G5 GPU server, mainly introducing and explaining the appearance, structure, hardware installation, and basic configuration of this product.

This manual is intended for reference by professional technical personnel. Installation and maintenance of this product should only be carried out by experienced technical personnel.

Modification Record

Manual version	Release date	Modification
V1.0	2025-07-21	First release
V1.1	2025-08-22	Update slot description

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1. Product Introduction

1.1 Product Overview

SYR8108G-G5 is an AI computing server based on the AMD EPYC Turin platform, offering powerful computational capabilities and ultra-high flexibility in expansion. It features a multi-CPU-GPU direct connection topology, making it suitable for various AI business scenarios. It is ideal for applications in artificial intelligence, cloud computing, virtualization, big data analytics, digital twins, and more.

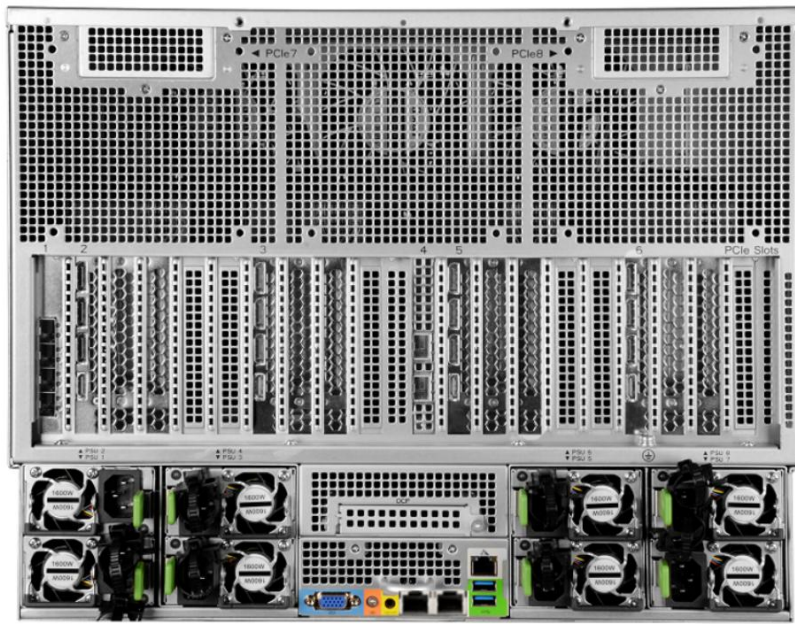
Main Configuration:

- Supports 2 AMD EPYC Turin 9005 series processors, compatible with Genoa 9004 series processors, Max TDP 500W
- Each CPU supports 12 DDR5-4800/5600/6400MHz DIMMs, with a total of 24 slots supported for two CPUs, and supports single-module capacities of 16GB, 32GB, 64GB, and 128GB
- Supports CPU-GPU direct connection for 8 cards; the front panel supports up to 12 3.5 or 2.5-inch SAS/SATA/NVMe hard drives
- Supports up to 12 physical 16X standard connectors for expanding GPU cards, network cards, RAID cards, etc.
- Rear I/O board comes standard with two 1G RJ45 ports, with an optional OCP3.0 network card
- The BMC chip in this motherboard uses the ASPEED AST2600 controller chip for IPMI remote management

Physical illustration of the server is shown below:



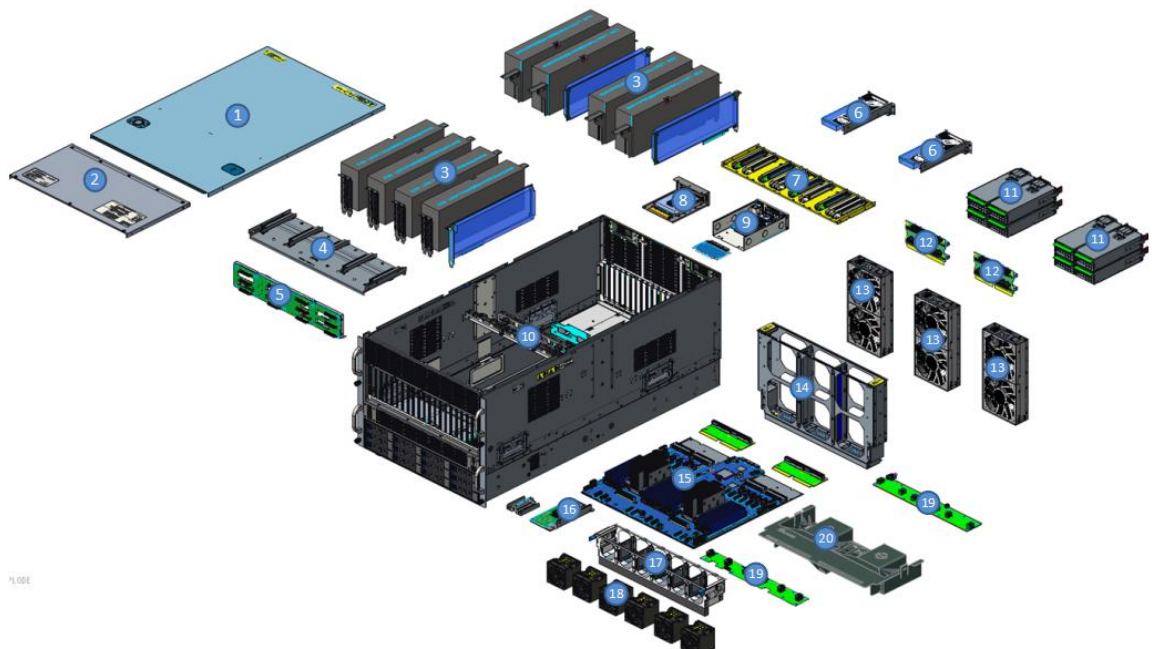
Front view



Rear view

1.2 Product Structure

The components of the SYR8108G-G5 server, using the SYR8108G-D12R-G5 as an example, are shown in the image below:



Exploded view

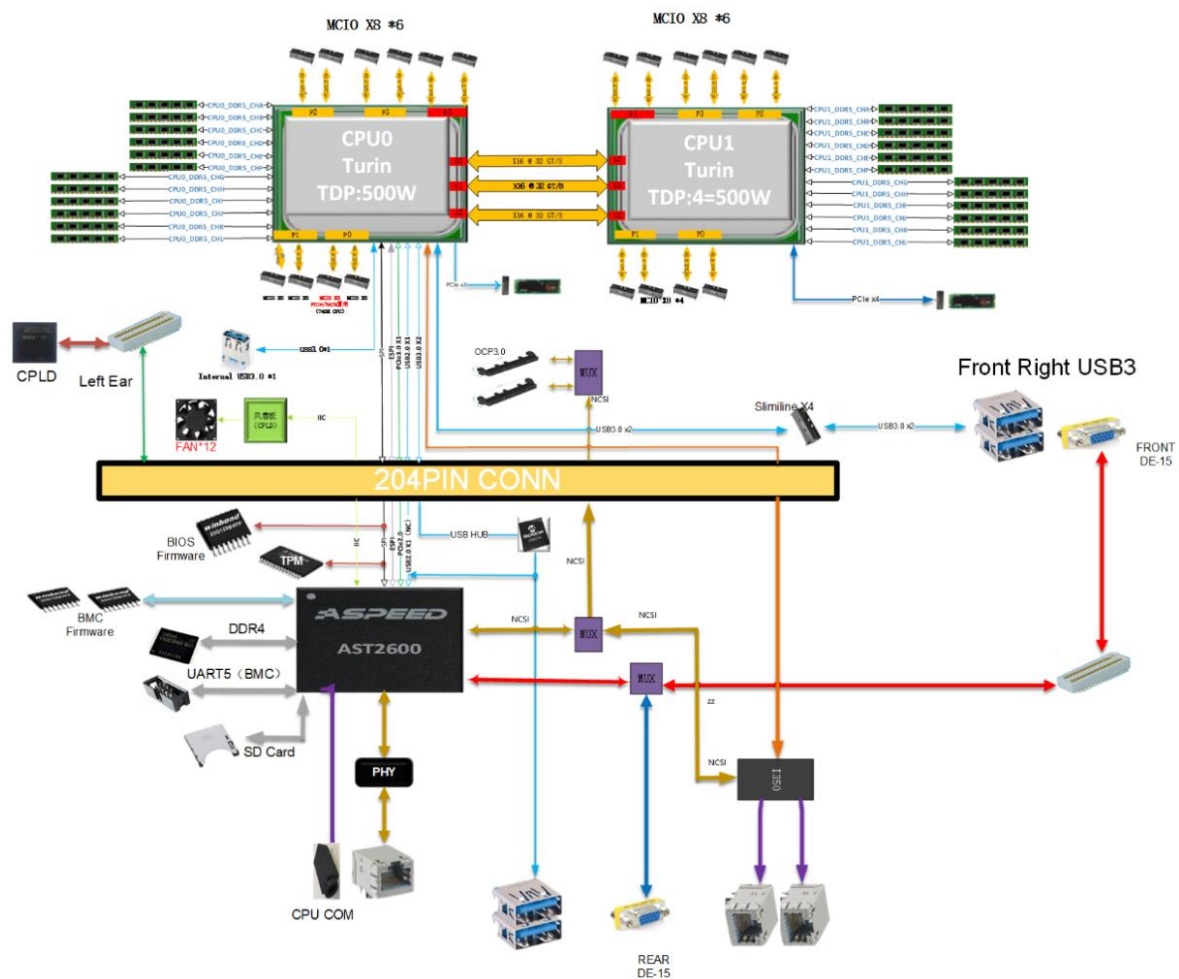
No.	Name	No.	Name
1	Rear Top Cover	11	Power Supply Module
2	Front Top Cover	12	Power Board
3	GPU	13	12038 Fan Module

4	Riser Cable Base	14	12038 Fan Bracket
5	Front Hard Drive Backplane	15	Motherboard
6	Network Card Module	16	RAID Card
7	Riser Cable Base	17	6056 Fan Bracket
8	I/O Board	18	6056 Fan Module
9	I/O Module	19	Fan Board
10	Chassis	20	Air Duct

Exploded view parts list

1.3 Logical Structure

The logical diagram of the SYR8108G-G5 server is shown below:



Motherboard logic block diagram

- Supports 2 AMD EPYC Turin 9005 series processors, compatible with Genoa 9004 series processors, with a TDP of 500W
- Each CPU supports 12 DIMMs, with a total of 24 slots for two CPUs, supporting individual module capacities of 16GB, 32GB, 64GB, and 128GB. The maximum supported memory frequency is 6400 MHz
- CPU-GPU direct connection topology, supports PCIe passthrough expansion boards. The rear panel features 12 physical 16X standard connectors, which can be

used for expanding GPU cards, network cards, RAID cards, etc.

- 20 PCIe 5.0 x8 MCIO ports.
- The rear I/O can be equipped with two 1G RJ45 ports by default, with an optional OCP 3.0 network card.
- The BMC chip uses the ASPEED AST2600 controller chip, supporting IPMI remote management.

1.4 Product Specifications

Product Series	SYR8108G-G5	
Model	SYR8108G-D12R-G5	
Form Factor	Passthrough 8-GPU AI Server (Fan Version)	Passthrough 8-GPU AI Server (Blower Version)
GPU	Supports 8*600W 3-width, 3.3-width, 3.5-width, or 4.5-width RTX 5090 fan GPUs or other 600W fan GPUs. Features a 4+4 front-rear separated upper and lower airflow layout, with maximum supported GPU width of 89 mm.	Supports 8*600W 2-width or 2.5-width RTX 5090 blower GPUs or other 600W blower GPUs. Features an 8-GPU rear-aligned centralized airflow cooling layout, with maximum supported GPU width of 50 mm.
Processor	Supports 2 AMD EPYC Turin 9005 series processors, compatible with Genoa 9004 series processors, Max TDP 500W	
Memory	24 DDR5 slots, supports DDR5 RDIMM 4800/6400 MHz; Supports individual module capacities of 16GB, 32GB, 64GB, 128GB	
Internal Storage	2*M.2 (PCIe3.0 X4, PCIe 3.0 X2)	
Front Hard Drives	12 hot-swappable 3.5/2.5-inch SAS/SATA/NVMe hard drives	
External Ports	Front ports: 2 USB 3.0, 1 VGA port	
	1 serial port, 2 USB 3.0, 1 VGA, 1 RJ45 management port, 2*1G RJ45 network ports	
PCIe Expansion	Supports 12 PCIe 5.0 expansion slots (including 1 OCP slot): 8 *PCIe 5.0 4.5-width slots, and 4 *PCIe 5.0 x8 single-width slots	Supports 12 PCIe 5.0 expansion slots (including 1 OCP slot): 8 *PCIe 5.0 2.5-width slots, and 4 *PCIe 5.0 single-width slots
Power Supply	Supports 8 CRPS 1600W/2200W/2700W/3200W power modules, with hot-swap capability and N+N / N+M redundancy modes	
Fan	Standard 6 *6056 and 6 *12038 hot-swap fans with N+1 redundancy	
Security	Supports TPM 2.0 module, chassis open alarm, BMC/redundancy	
Certification	CE, FCC, CQC	
RoHS	Compliant with RoHS 2.0	
Working	Temperature: 5°C~35°C/Humidity: 30%~80%	

Temperature& Humidity	
Storage Temperature& Humidity	Temperature: -40°C ~ +70°C Humidity: 20%~90%(including packaging)
Dimension	364.6 mm (H) *446 mm (W) *910 mm (D)

2. Hardware Description

2.1 Front Panel

2.1.1 Appearance

- 12x3.5-inch hard drive configuration

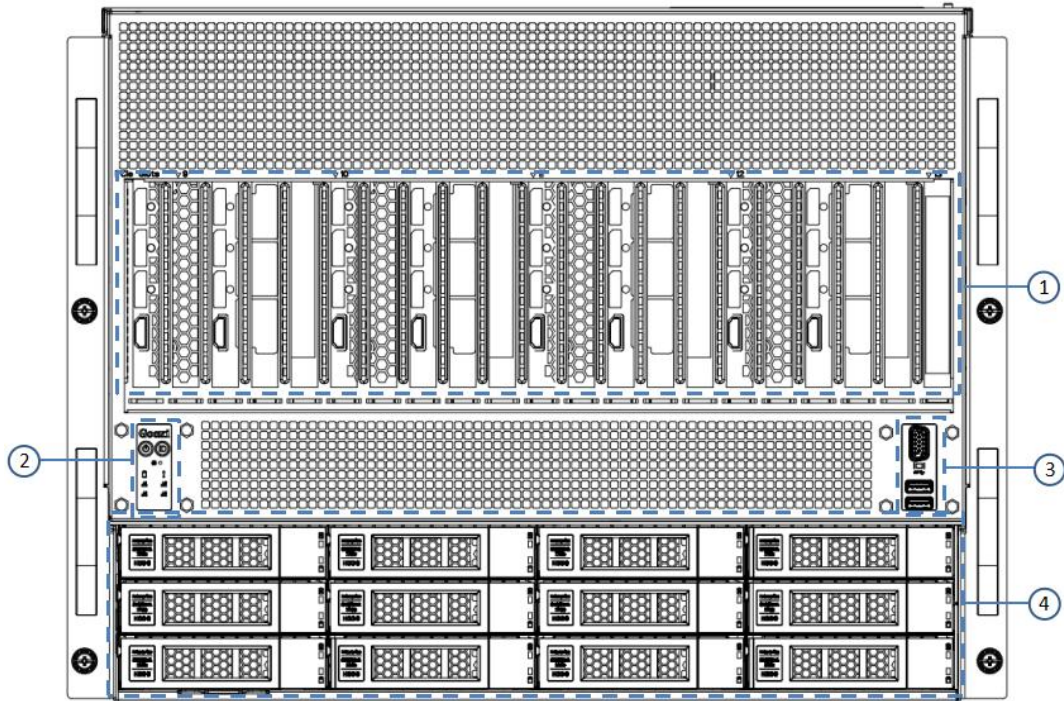


Figure 2-1

No.	Name	No.	Name
1	GPU Module	2	Left Ear Integrated Assembly
3	Right Ear Integrated Assembly	4	Hard Drive Module

Table 2-1

2.1.2 Indicator lights and buttons

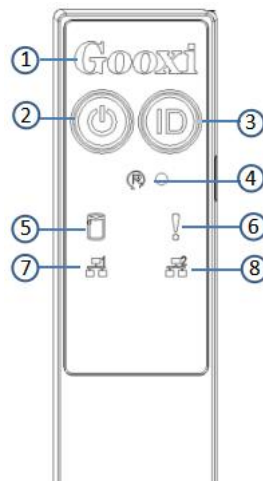
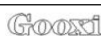


Figure 2-2

No.	Indicator/button	No.	Indicator/button
1	Gooxi Logo	5	M.2 Hard Drive Activity Indicator
2	Power Switch Button/Indicator	6	System Alarm Indicator
3	UID Button/Indicator	7	Network Port 1 Connection Status Indicator
4	Reset Button (Reboot Server)	8	Network Port 2 Connection Status Indicator
LED status description			
Logo	Indicator/button	Status description	
		Gooxi logo	
	Power indicator	Description of the power indicator light: Green (steady on): Indicates that the device has been powered on normally. Green (blinking): Indicates that the device is in standby. Green off: Indicates that the device is not powered on. Power button description: Short press this button in the power-on state, and the OS will shut down normally. Press and hold the button for 6 seconds in the power-on state to force the server to Power off. Short pressing this button in the standby state allows for powering on.	
	UID button/indicator	The UID button/indicator is used to conveniently locate the server to be operated, and the indicator can be turned off or on by manually pressing the UID button or remotely controlling the BMC command. Description of UID indicator light: Blue (steady on/blinking): Indicates that the server is located. Off: Indicates that the server is not located. UID button description: Short press this button to turn on/off the positioning light.	
	Reset server button	Press to restart the server	
	Hard drive indicator	Blinking green light: The hard drive is operating normally	
	System alarm indicator light	System alarm indicator light. It includes system, fan, and power alarms, etc. Specific details can be viewed through the IPMI management software.	
	Network port connection status indicator light	Indicator lights for Ethernet ports corresponding to the network card slots. Green (steady): Indicates a normal network connection. Off: Indicates an unused or faulty network port. Note: Corresponds to the two 1GE Ethernet ports on the motherboard.	
	Network port connection status indicator light	Indicator lights for Ethernet ports corresponding to the network card slots. Green (steady): Indicates a normal network connection. Off: Indicates an unused or faulty network port. Note: Corresponds to the two 1GE Ethernet ports on the	

		motherboard.
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Table 2-2

2.1.3 Interface

- Interface location

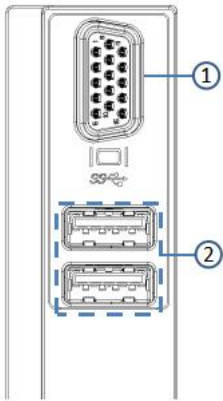


Figure 2-3

No.	Name	No.	Name
1	VGA Port	2	USB3.0 Interface

Table 2-3

- Interface description

Name	Type	Qty	Description
VGA Port	DB15	1	Used to connect display terminals, such as monitors or KVMs
USB Interface	USB3.0	2	Used to connect USB devices

Table 2-4

2.2 Rear Panel

2.2.1 Appearance

- Rear panel external interface

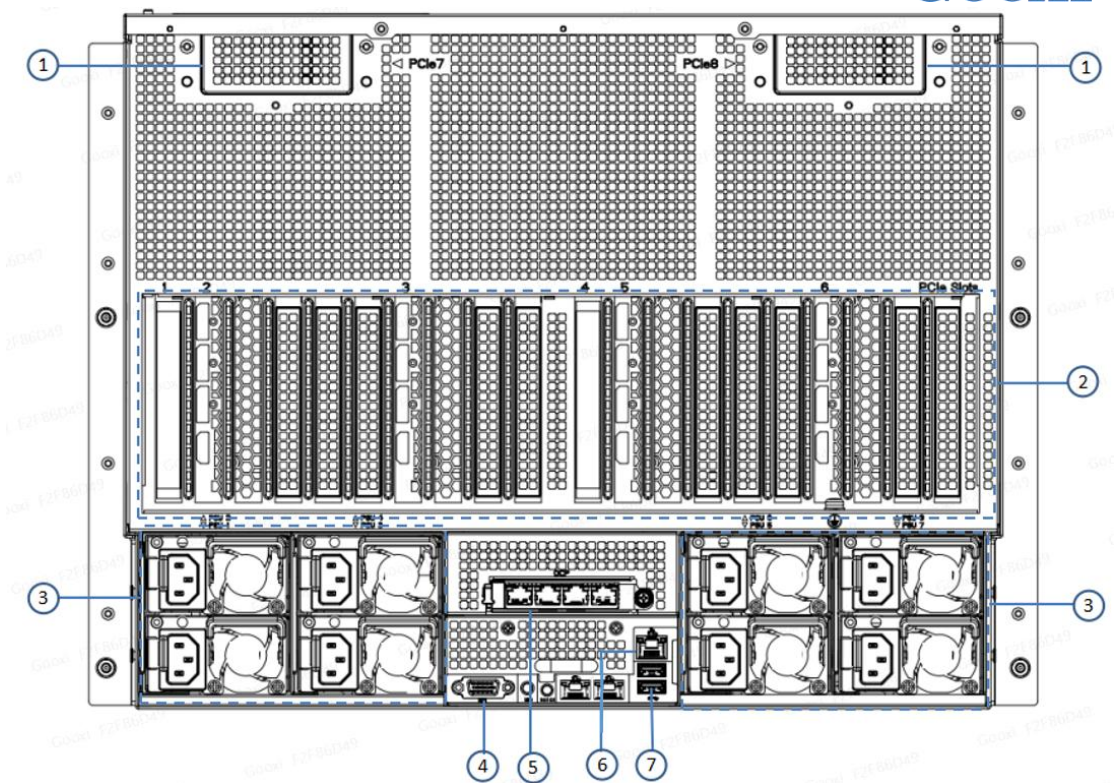


Figure 2-4

No.	Name	No.	Name
1	PCIe Module	5	OCP slot
2	PCIe Rear Window	6	Management Network Port
3	Power Module	7	USB 3.0 Port
4	VGA	8	Onboard LAN port

Table 2-5

- Note:
- The rear window of this product can be customized according to the needs. The above picture is for reference only, and the actual configuration shall prevail.
 - Rear panel interface description

No.	Name	No.	Name
Name	Type	Qty	Description
VGA interface	DB 15	1	Used to connect a display terminal, such as a monitor or KVM.
Management network port	GE BASE -T	1	Provides an outgoing 1000Mbit/s Ethernet port. Through this interface, the local server can be managed.
			Provides external USB interface, through which USB devices can be connected.

USB interface	USB 3.0	2	Note: When using external USB devices, please ensure the USB device is in good condition, as otherwise it may lead to abnormal server operation.
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Table 2-6

2.2.2 Indicator lights and buttons

● Rear Panel Indicators

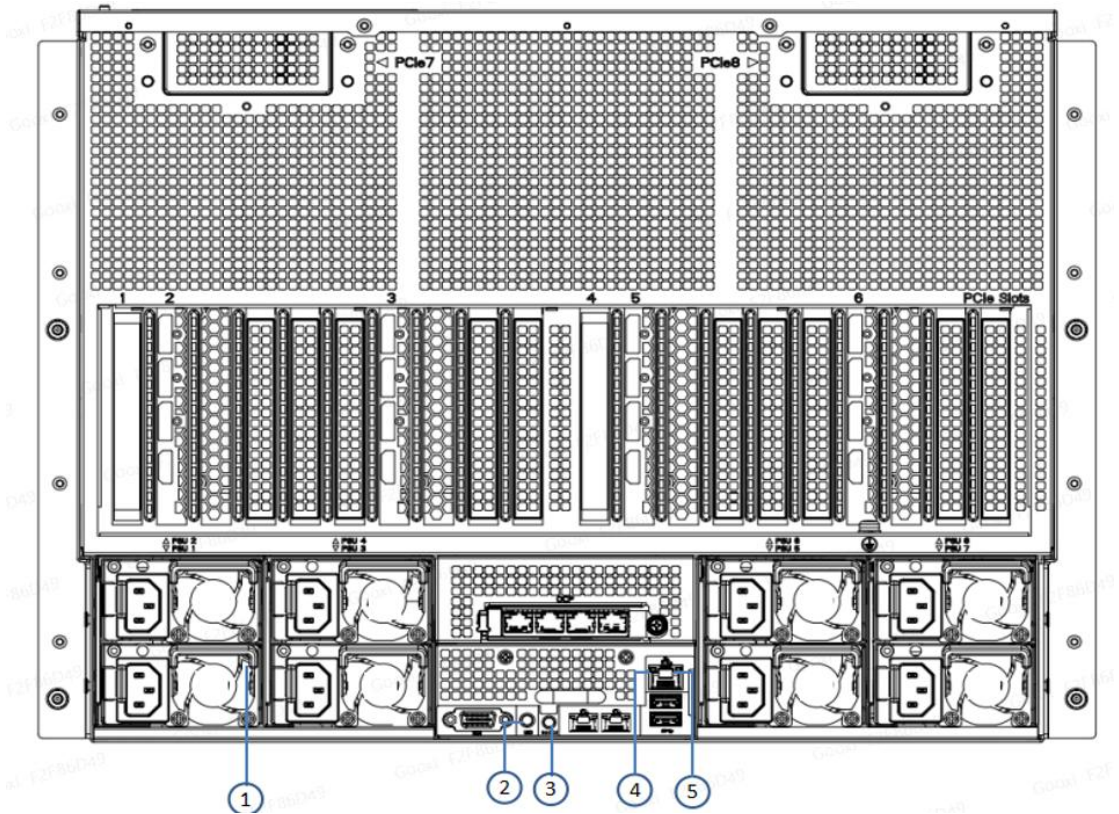


Figure 2-5

No.	Name	No.	Name
1	Power Module Indicator Light	4	Management Network Port Connection Status Indicator
2	UID Button	5	Management Network Port Data Transmission Status Indicator
3	COM Port	6	

Table 2-7

● Description of Power Module Indicators

Indicator light /button	Status description
	Green (steady): Indicates normal input and output. Orange (steady): Indicates AC power cord unplugged or power module missing. Only one parallel-connected power module has AC input. Power module malfunction leads to output shutdown,

Power module indicator	such as OVP, OCP, fan failure, etc. Green (1Hz/blinking): Indicates normal input, but low voltage (less than 12V) or the power supply is in intelligent on state. Green (2Hz/blinking): Indicates firmware online upgrade process. Orange (1Hz/blinking): Indicates continuous power-running warning events such as high temperature, high power, high current. Off: Indicates no AC power input.
Connection Status Indicator	Steady green: Indicates Gigabit Link. Steady orange: Indicates 100-megabit link. Off: Indicates 10-megabit link.
Data transmission status indicator	Yellow (blinking): Indicates that data is being transmitted. Off: Indicates no data transmission.
UID button	UID button on the server provides control
COM Port	Serial Communication Port

Table 2-8

2.3 Processors

- Supports 2 AMD EPYC Turin 9005 series processors, compatible with Genoa 9004 series processors
- When configuring a single processor, it must be installed in CPU 0 position
- Processors used in the same server must be of the same model
- For available system configuration options, please contact Gooxi sales
- Processor location is shown in the diagram below:

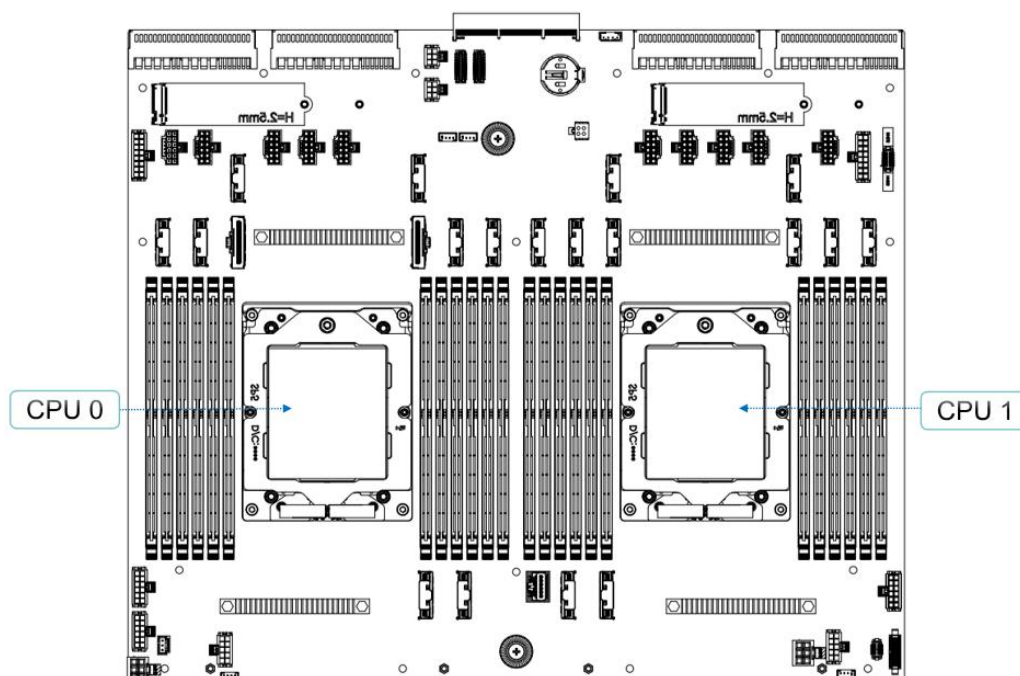


Figure 2-6

2.4 Memory

2.4.1 Memory slot location

Developed based on the AMD EPYC Turin platform, supporting 2 AMD EPYC Turin series processors, compatible with Genoa series processors. Each CPU supports 12 DIMM slots, with a total of 24 slots for dual-CPU configurations. Memory frequency supports 4800/5600/6400MHz. The positions are shown in the diagram below:

- memory slot location

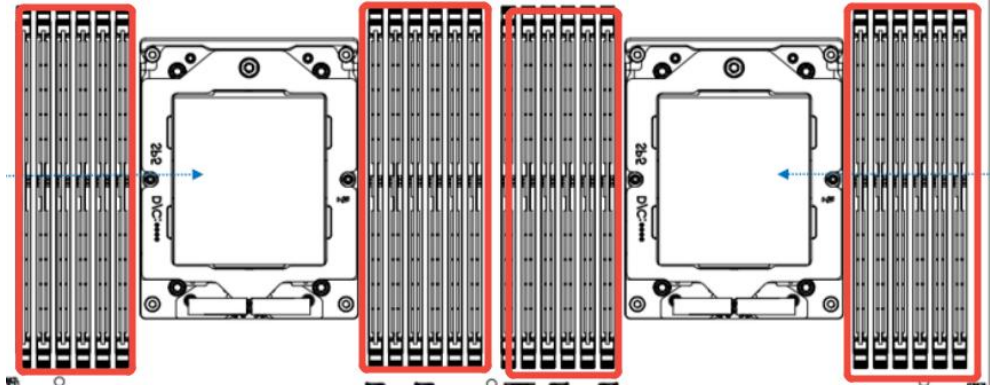


Figure 2-7

2.4.2 Memory compatibility information

Note:

- The same model of DDR5 memory must be used in a single server, and all memory modules must operate at the same speed, determined by the lowest of the following values:
 - Maximum supported memory speed of the specific CPU
 - Maximum operating speed of the specific memory configuration
 - Different types (RDIMM, LRDIMM) and different specifications (capacity, bit width, rank, height, etc.) of DDR5 memory are not supported for mixed use.

2.4.3 Memory installation rules

The server supports up to 24 DDR5 memory modules, and memory installation must follow the memory installation guidelines.(For details, refer to the AMD CPU Memory Installation Guide.)

Number of Memory Channels Populated	Recommended Memory Channels (UMC to Memory Channel Mapping)													Nodes per Socket (NPS) Supported ²
	Memory Channel	A	C	B	E	D	F	G	I	H	K	J	L	
12	Memory Channel	A	C	B	E	D	F	G	I	H	K	J	L	NPS4, NPS2, NPS1
	UMC Instance	3	0	4	1	5	2	9	6	10	7	11	8	
10	Memory Channel	A	C	B	E	D		G	I	H	K	J		NPS2, NPS1
	UMC Instance	3	0	4	1	5		9	6	10	7	11		
8	Memory Channel	A	C	B	E			G	I	H	K			NPS4, NPS2, NPS1
	UMC Instance	3	0	4	1			9	6	10	7			
6	Memory Channel	A	C	B				G	I	H				NPS2, NPS1
	UMC Instance	3	0	4				9	6	10				
4	Memory Channel	A	C					G	I					NPS4, NPS2, NPS1
	UMC Instance	3	0					9	6					
2	Memory Channel	A						G						NPS2, NPS1
	UMC Instance	3						9						
1	Memory Channel	A												NPS1
	UMC Instance	3												

Figure 2-8

2.5 Storage

2.5.1 Hard drive configuration

Configuration	6U 12-Bay	Description
Maximum Front Hard Drive Qty	12 Hot-Swap 3.5"/2.5" SAS/SATA/NVMe Drives	SAS drives require a SAS HBA or RAID card for support

Table 2-9

2.5.2 Hard drive serial number

- 12x3.5-inch hard drive configuration

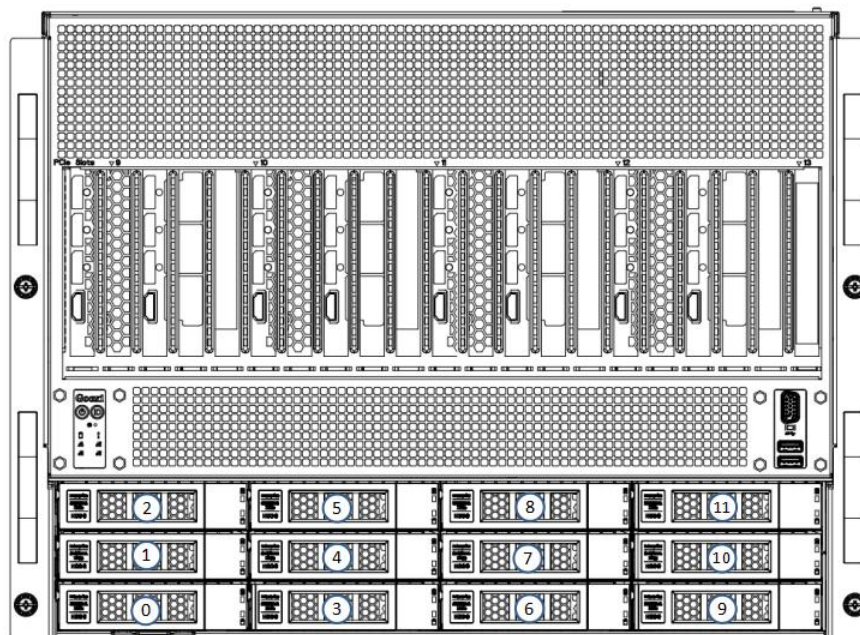


Figure 2-9

2.5.3 Hard drive status indicator

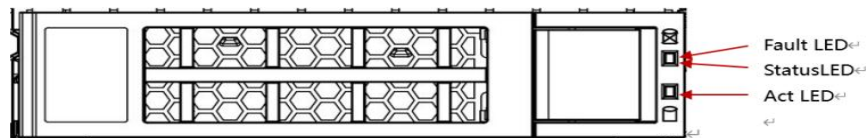


Figure 2-10

- Hard drive status indicator description

Function	Act LED	Fault LED	Status LED
Hard drive Presenting	Steady on	Off	Off
Hard drive activity	Blinking at 4Hz/sec	Off	Off
Hard drive positioning	Steady on	Blinking at 4Hz/sec	Off
Hard drive error	Steady on	Off	Steady on
Raid rebuilding	Steady on	Off	Blinking at 1Hz/sec

Table 2-10

2.6 Power Supply

- Supports 6 or 8 power modules with N+N and N+M redundancy backup
- Supports AC or DC power modules
- Hot-swappable support
- Power modules configured in the same server must be of the same model
- For specific optional system components, please consult Gooxi sales
- The power module locations are shown in the diagram below:

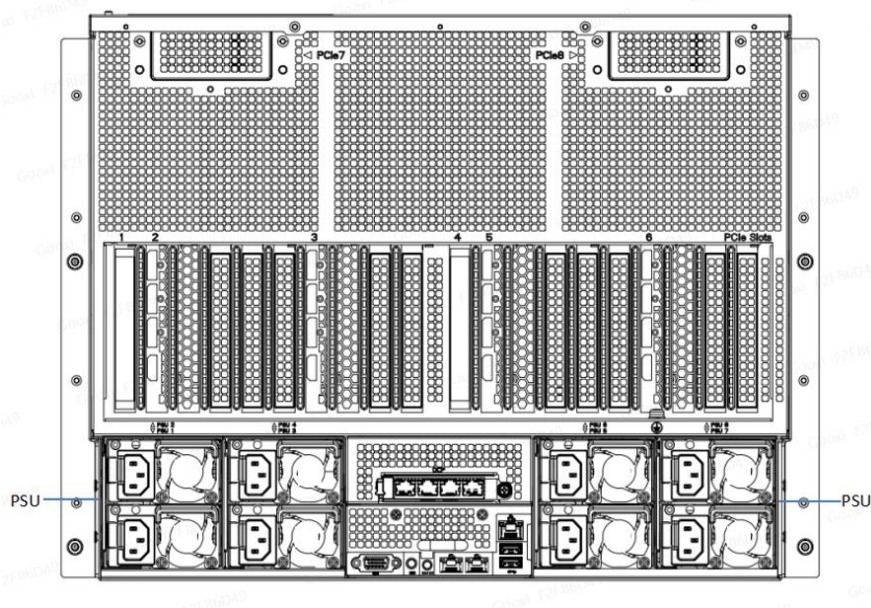


Figure 2-11



The device is equipped with two identical, hot-swappable power modules, which

must supply power simultaneously for the product to function properly.

2.7 Fans

- The chassis supports 12 fan modules internally.
- Hot-swappable support.
- Supports single fan failure.
- Supports variable fan speed.
- Fan modules configured in the same server must be of the same model.
- The fan locations are shown in the diagram below:

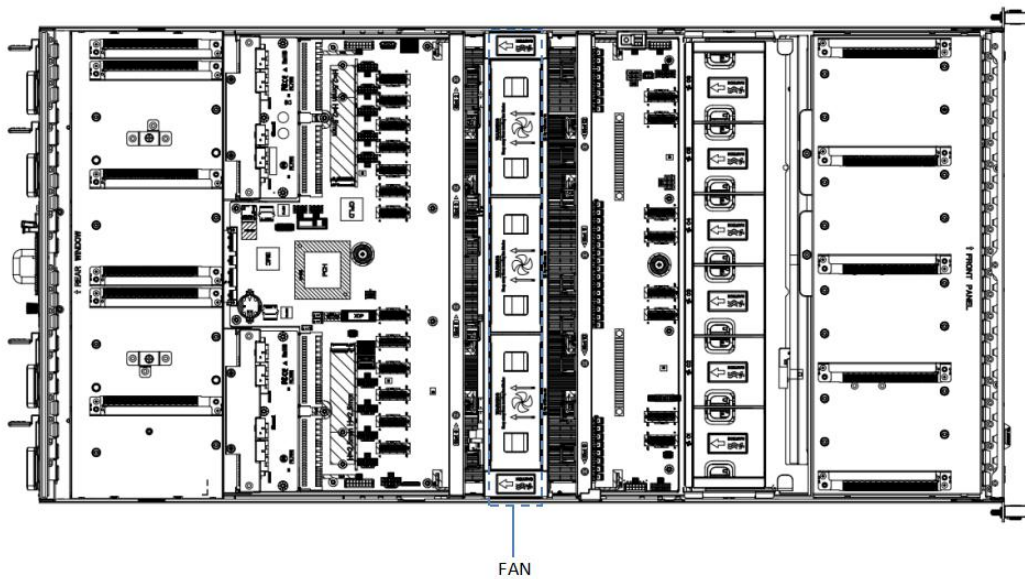
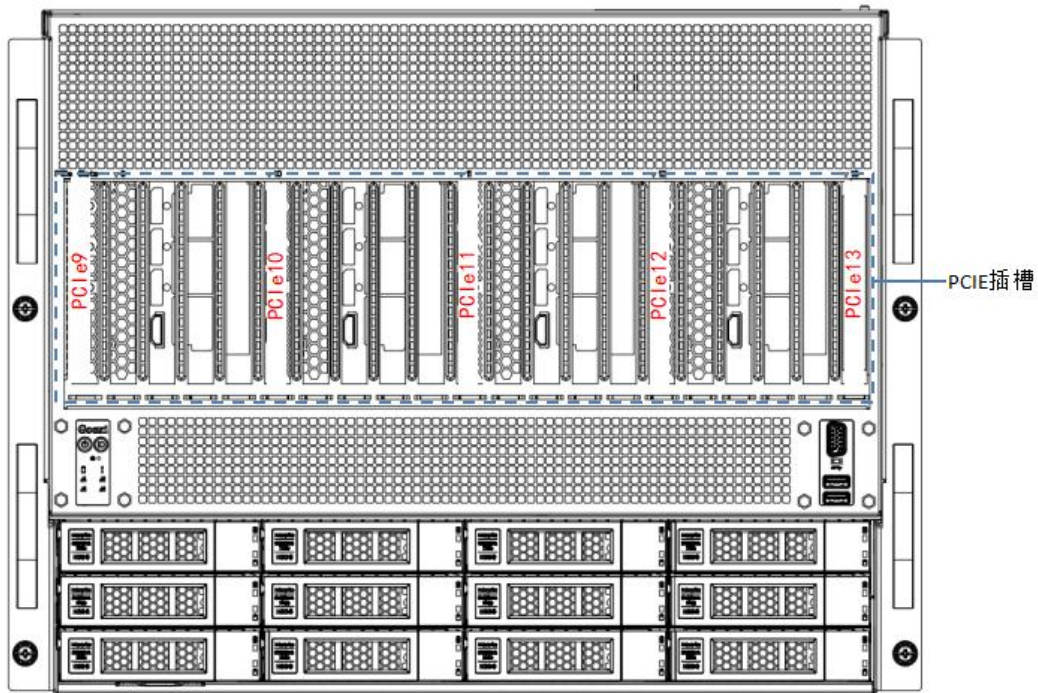


Figure 2-12

2.8 I/O Expansion

2.8.1 PCIe slot location (4-front, 4-rear GPU layout)

- Front panel



● Rear panel

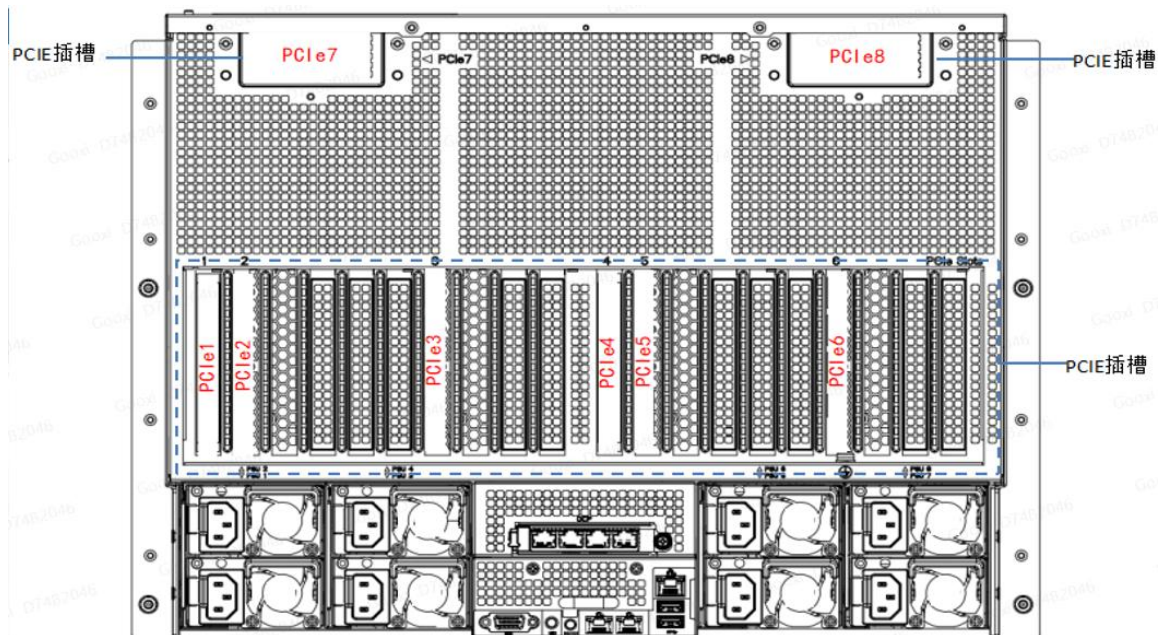


Figure 2-13

Note: Supports up to 12 PCIe 5.0 expansion slots at the front and rear (including 1 OCP); 8 PCIe 5.0 4.5-width slots and 4 PCIe 5.0 x8 single-width slots.

2.8.2 PCIe slot description

Pass-through PCIe slot configuration (front 4, rear 4, SKU1)

PCIe slot	Subordinate CPU	PCIe standard	Bus bandwidth	Slot size
Slot 1	CPU1	PCIe 5.0	X8	FHFL

Slot 2	CPU1	PCIe 5.0	X16	FHFL
Slot 3	CPU1	PCIe 5.0	X16	FHFL
Slot 4	CPU1	PCIe 5.0	X8	FHFL
Slot 5	CPU0	PCIe 5.0	X16	FHFL
Slot 6	CPU0	PCIe 5.0	X16	FHFL
Slot 9	CPU0	PCIe 5.0	X16	HHHL
Slot 10	CPU0	PCIe 5.0	X16	FHFL
Slot 11	CPU1	PCIe 5.0	X16	FHFL
Slot 12	CPU1	PCIe 5.0	X16	FHFL
Raid	CPU0	PCIe 5.0	X8	FHFL

Note:

◆PCIe x16 slots are backward compatible with PCIe x8, PCIe x4, and PCIe x1 cards. However, upward compatibility is not supported, meaning the slot bandwidth cannot be smaller than the PCIe card's bandwidth.

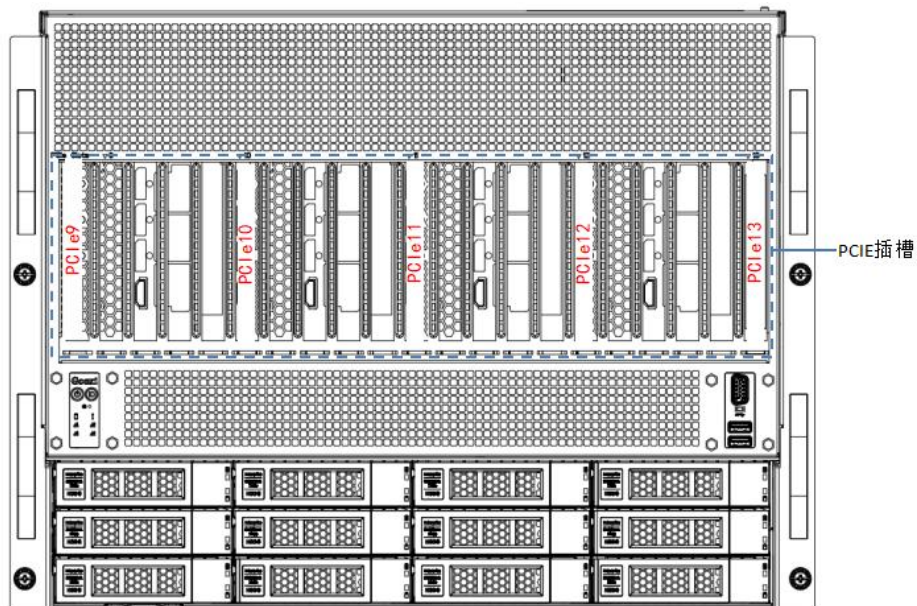
◆Full-height, full-length PCIe slots are backward compatible with half-height, half-length PCIe cards.

◆All slots can supply up to 75W of power to PCIe cards, though the actual power consumption depends on the specific model of the PCIe card.

Table 2-11

2.8.3 PCIe slot location (rear 8-GPU layout)

● Front Panel



● Rear Panel

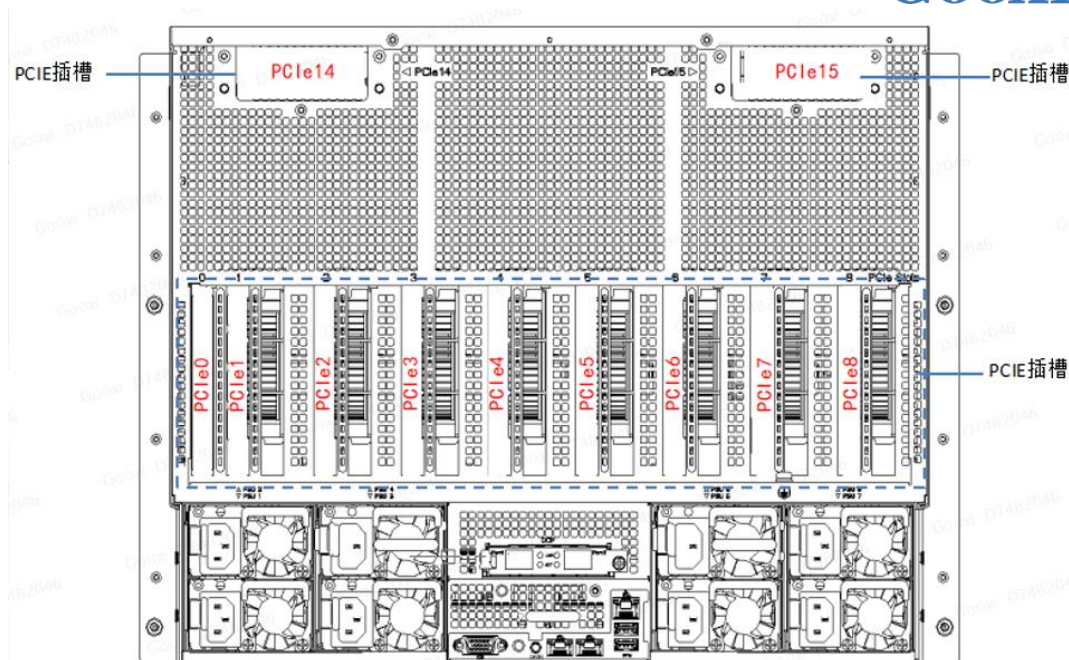


Figure 2-14

Note: Supports 12 PCIe 5.0 expansion slots (including 1 OCP): 8 PCIe 5.0 2.5-width slots and 4 PCIe 5.0 single-width slots.

2.8.4 PCIe slot description

PCIe slot	Subordinate CPU	PCIe standard	Bus bandwidth	Slot size
PCIe 0	CPU1	PCIe 5.0	X16	FHFL
PCIe 1	CPU1	PCIe 5.0	X16	FHFL
PCIe 2	CPU1	PCIe 5.0	X16	FHFL
PCIe 3	CPU1	PCIe 5.0	X16	FHFL
PCIe 4	CPU1	PCIe 5.0	X16	FHFL
PCIe 5	CPU0	PCIe 5.0	X16	FHFL
PCIe 6	CPU0	PCIe 5.0	X16	FHFL
PCIe 7	CPU0	PCIe 5.0	X16	FHFL
PCIe 8	CPU0	PCIe 5.0	X16	FHHL
PCIe 9	CPU1	PCIe 4.0	X8	FHFL
PCIe 10	CPU0	PCIe 5.0	X8	FHFL
PCIe 14	CPU1	PCIe 5.0	X8	FHHL
PCIe 15	CPU0	PCIe 5.0	X8	FHFL

Note:

◆PCIe x16 slots are backward compatible with PCIe x8, PCIe x4, and PCIe x1 cards. They are not forward compatible, meaning the slot bandwidth must not be less than that required by the installed PCIe card.

◆PCIe1–PCIe8 are fixed GPU slots with a fixed bandwidth of x16. The bandwidth of other slots is not fixed—refer to the validated SKUs for details.

◆Full-height, full-length PCIe slots are backward compatible with full-height,

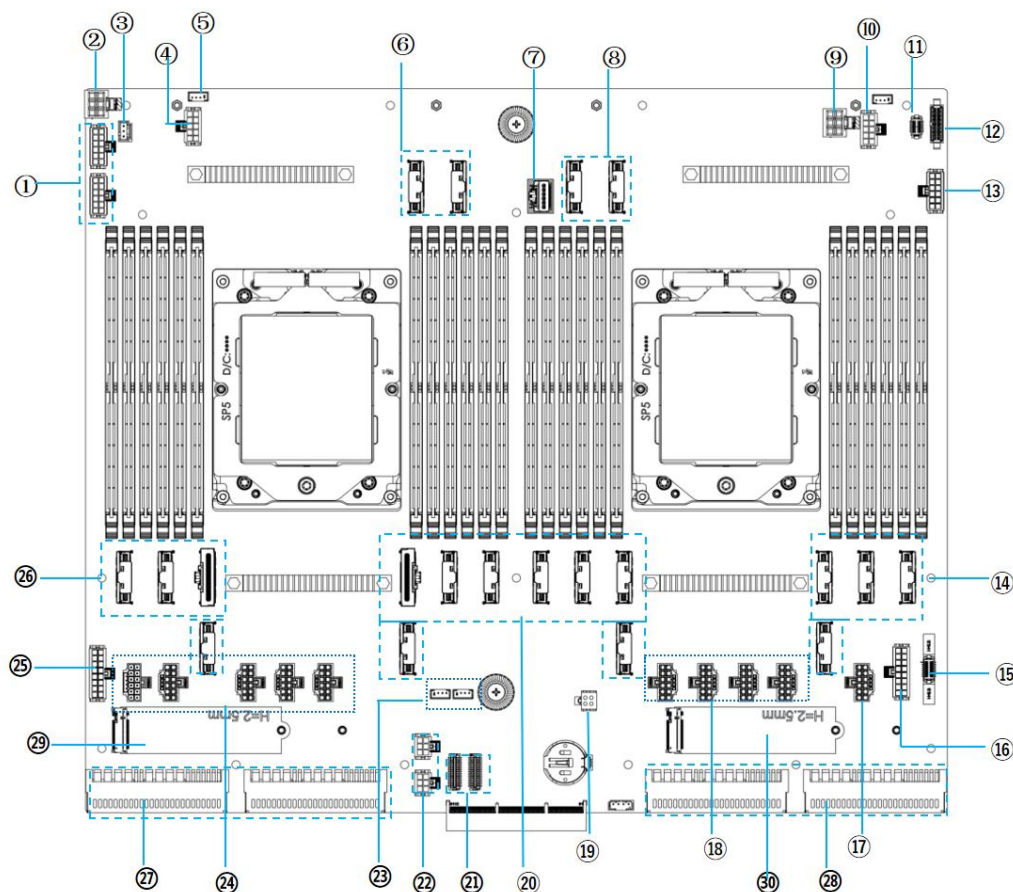
half-length and half-height, half-length PCIe cards.

◆ All slots support up to 75W power supply for PCIe cards. The actual power requirement depends on the specific PCIe card model.

Table 2-12

2.9 PCBA

2.9.1 Motherboard



Motherboard Figure 2-15

No.	Name
1, 13	BP power
2, 9	Riser cable power
3	Chassis intrusion switch connector
4, 10	Fan power
5	Liquid leakage detection interface
6, 8, 14, 20, 26	MCIO connectors * 20
7	Right mounting ear connector
11	I2C connector

12	FAN BP Control
15	Left mounting ear connector
16, 25	Power switch
17, 18, 24	GPU Power
19	Power switch
21	NCSI
22	OCP Power
23	I2C
27,28	PSU connector
29, 30	M.2

Table 2-13

2.9.2 Hard drive backplane

- 12 × 3.5-inch Front Hard Drive Backplane

TOP surface

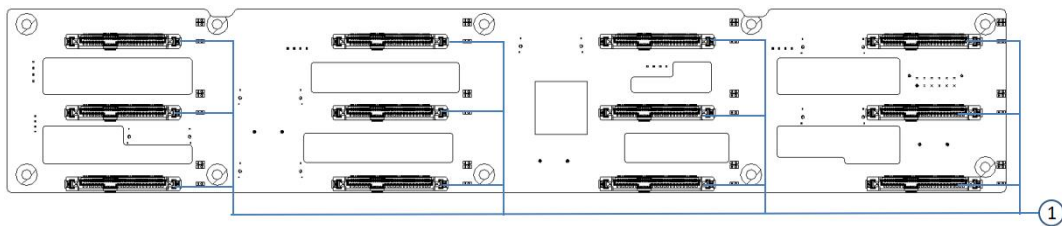


Figure 2-16

No.	Description	Function
1	SFF-8639 U.2 Drive Connector	Supports PCIe x4 and SAS/SATA U.2 interface, used for connecting HDD/SSD/NVMe

Table 2-14

Bottom surface

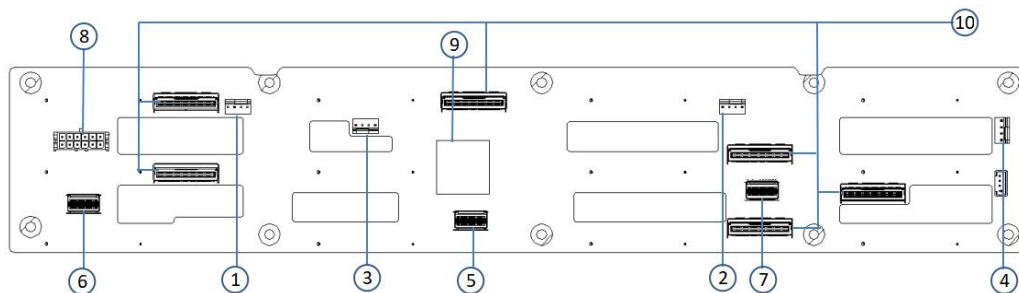


Figure 2-17

No.	Description	Function
1、2、3、4	Temperature-controlled Fan Sockets	For 4-pin fan interfaces

5、6、7	SFF-8654 Slimline Connectors	Provide SAS/SATA x4 interfaces for connecting to PCH or HBA/RAID cards
8	Power Connector	Backplane power transmission connector, used for 12V power transmission
9	CPLD Chip	Mainly used for lighting control of NVMe SSDs and SAS/SATA HDDs
10	MCIO Connector	Provides PCIe x8 interface for connecting to CPU and NVMe SSD

Table 2-15

3. Installation Instructions

3.1 Chassis Top Cover Installation

- Step 1: Lift the slot at the opening position, push and lift it in the direction indicated by the diagram.

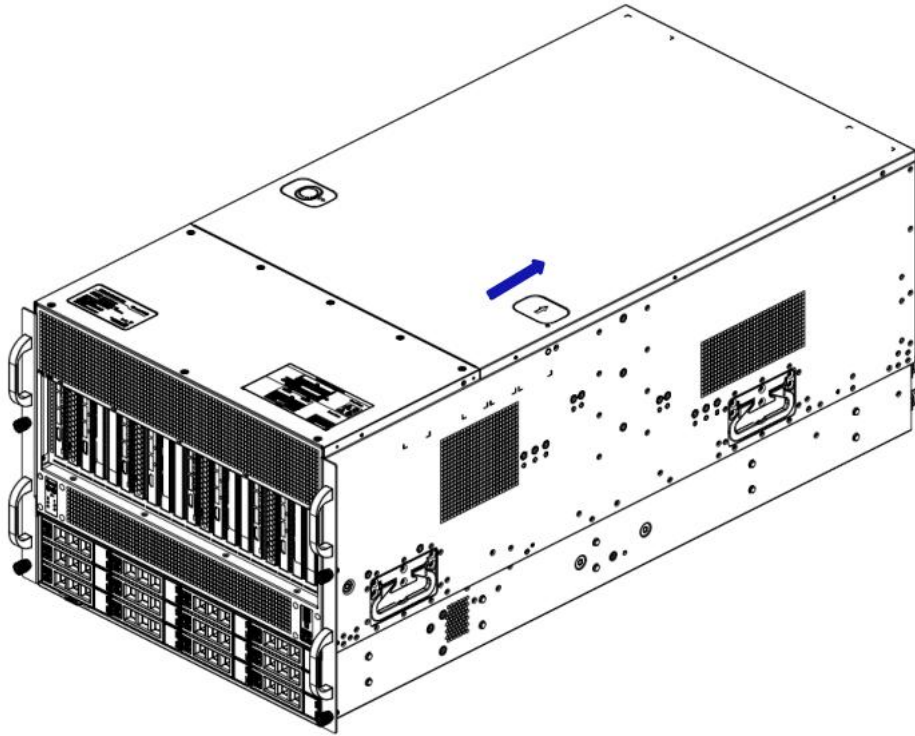


Figure 3-1

3.2 Installation of Accessories

3.2.1 CPU installation

Before starting the CPU installation, please read the following guidelines:

- Make sure the motherboard supports the CPU.
- Before installing the CPU, be sure to turn off the computer and unplug the power cord from the power outlet to prevent hardware damage.
- Disconnect all cables from the power socket.
- Disconnect all communication cables from their ports.
- Place the system unit on a flat and stable surface.
- Follow the instructions to turn on the system.

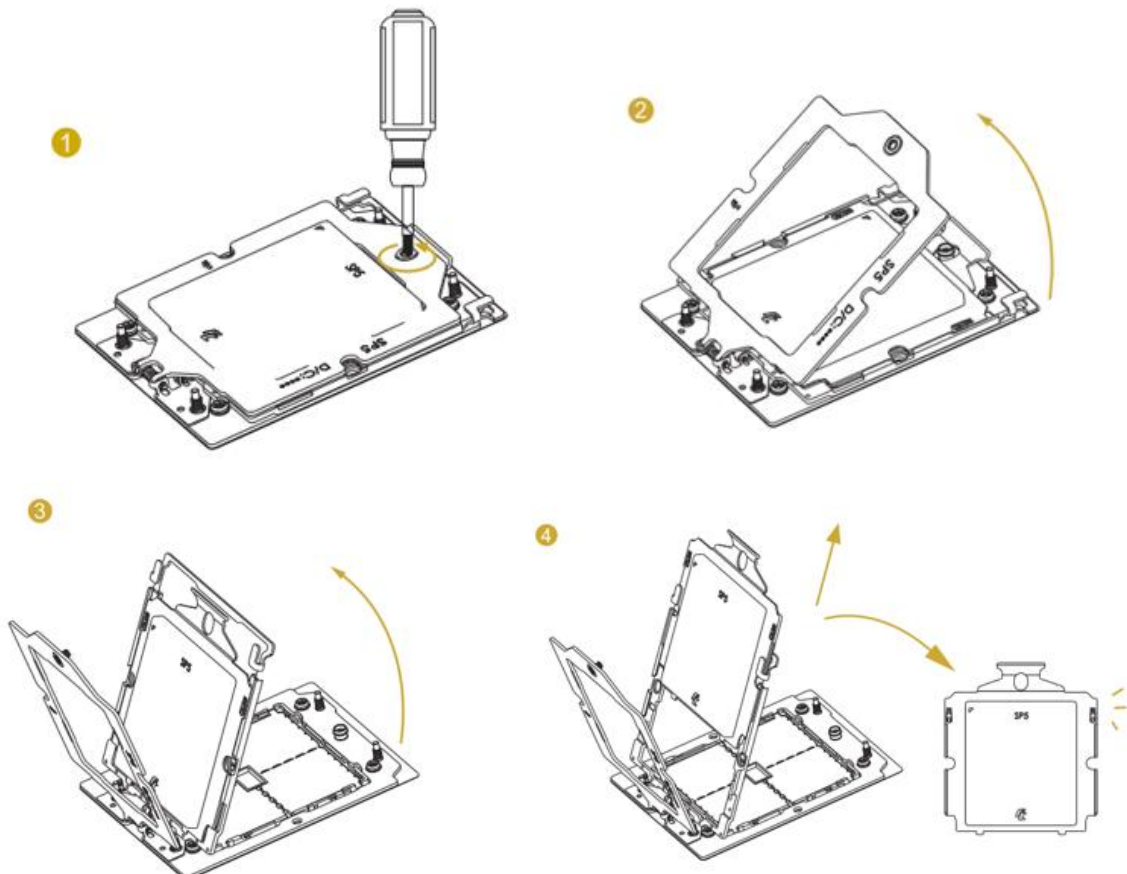
 Warning!

Serious damage could result if the server is not properly shut down before beginning component installation. Unless you are a qualified maintenance technician, otherwise do not attempt the steps described in the following sections.

Follow the instructions below to install the CPU:

1. Loosen the CPU cover screw.
2. Open the CPU retention bracket.
3. Open the CPU dust cover bracket.
4. Remove the CPU dust cover.
5. Insert the CPU into the dust cover bracket, ensuring it fits tightly with the guide frame during insertion.
6. Close the CPU dust cover bracket.
7. Close the CPU retention bracket.
8. Tighten the CPU cover screw. Torque: 16.1 kgf-cm (14.0 lbf-in).

 Note: Ensure that the CPU is oriented correctly in the CPU tray, aligning the triangle on the CPU with the top left corner of the CPU carrier.



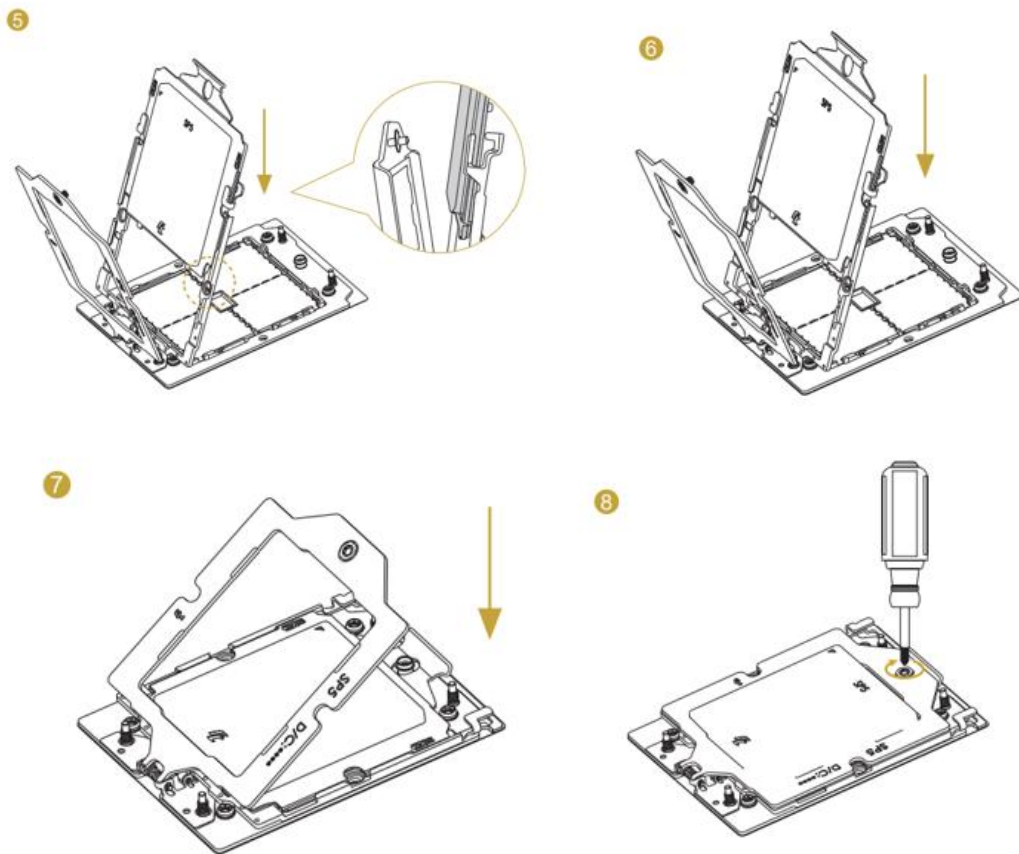


Figure 3-2

3.2.2 Installation of heatsink

Before starting to install the heatsink, please read the following guidelines:

- Before installing the heatsink, please be sure to turn off the computer and unplug the power cord from the power outlet to prevent damage to the hardware.
- Unplug all cables from the power outlet.
- Disconnect all communication cables from their ports.
- Place the system unit on a flat and stable surface.
- Follow the instructions to turn on the system.

Warning!

Before beginning the component installation, attempting the steps described in the following sections without shutting down the server may lead to severe damage. Only qualified technicians should carry out these procedures.

 **Note:** When installing the heatsink to the CPU, use a Phillips screwdriver to tighten the 4 retaining nuts in the order of 1-4.

Follow the instructions below to remove and install the heatsink:

1. Loosen the screws that secure the heatsink in reverse order (6→5→4→3→2→1).
2. Lift the heatsink and remove it from the system.
3. To install the heatsink, reverse steps 1-2, ensuring that you tighten the screws in the correct order (1 → 2 → 3 → 4), as shown in the diagram.

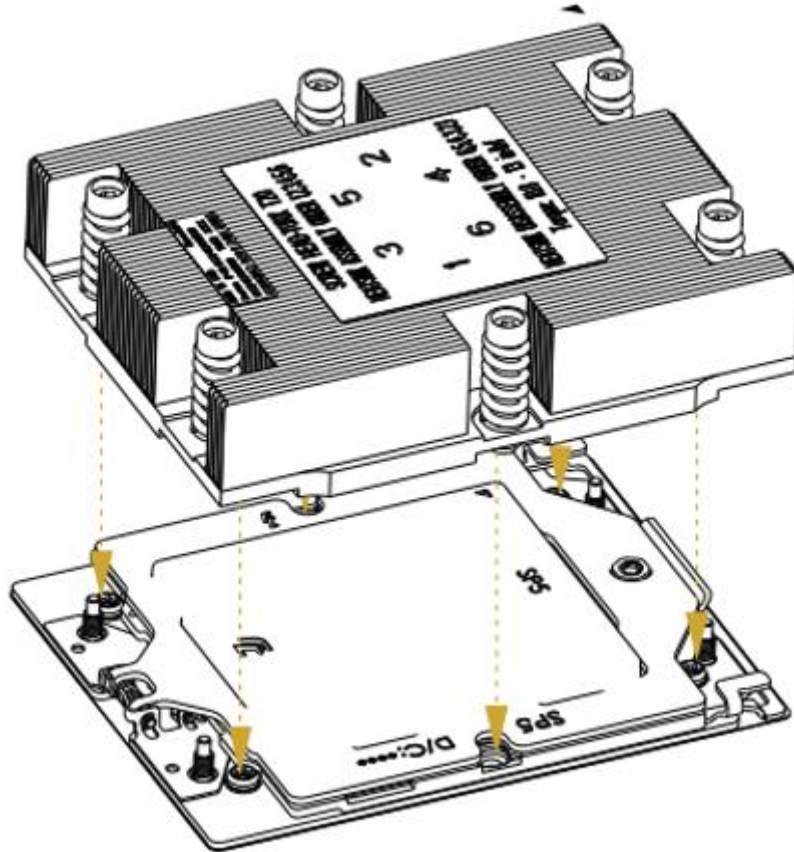


Figure 3-3

3.2.3 Installation of memory

The 12 memory slots controlled by CPU 0 / CPU 1 on the motherboard are: DIMM_A, DIMM_B, DIMM_C, DIMM_D, DIMM_E, DIMM_F, DIMM_G, DIMM_H, DIMM_I, DIMM_J, DIMM_K, and DIMM_L.

Ensure the notch on each memory module aligns with the notch in the corresponding DIMM slot, and insert each module vertically into place to prevent incorrect installation.

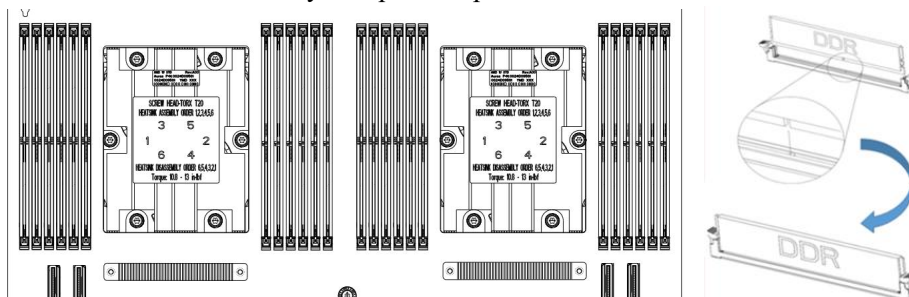


Figure 3-4

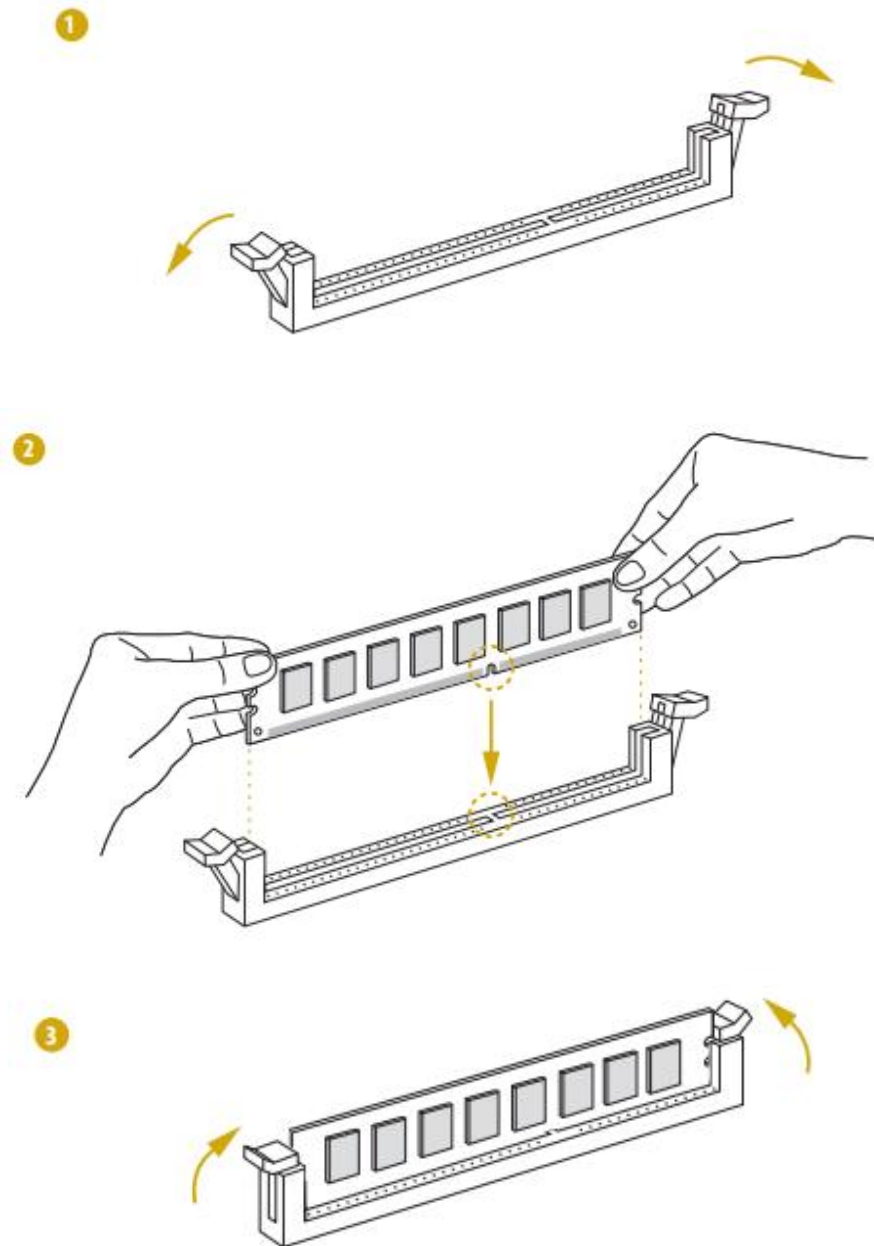


Figure 3-5

3.2.4 GPU card installation

- Step 1: Install according to the length of the GPU card to be installed.
- Step 2: Install the GPU card.

Insert the connector end of the GPU card into the motherboard connector, secure it with screws, as shown in the diagram below:

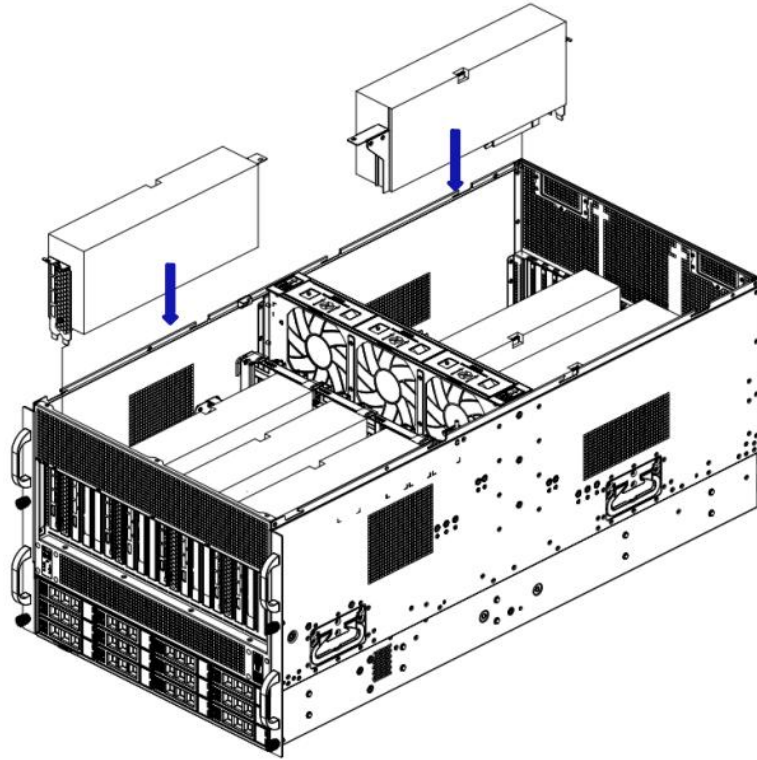


Figure 3-6

3.2.5 Server slide rail installation

- Step 1: Prepare two slide rails and pull out the inner rail.

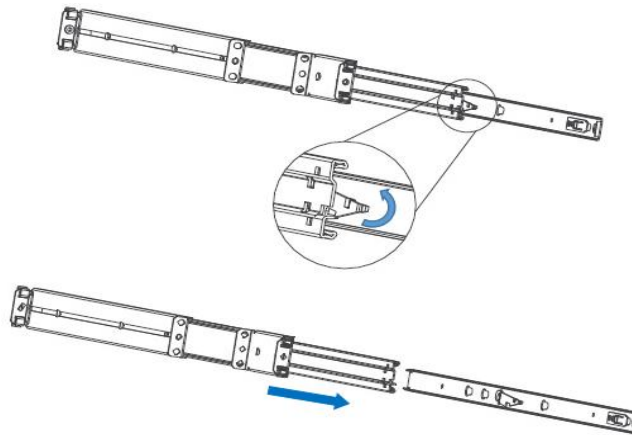


Figure 3-7

- Step 2: Fasten the inner rails to the sides of the chassis.

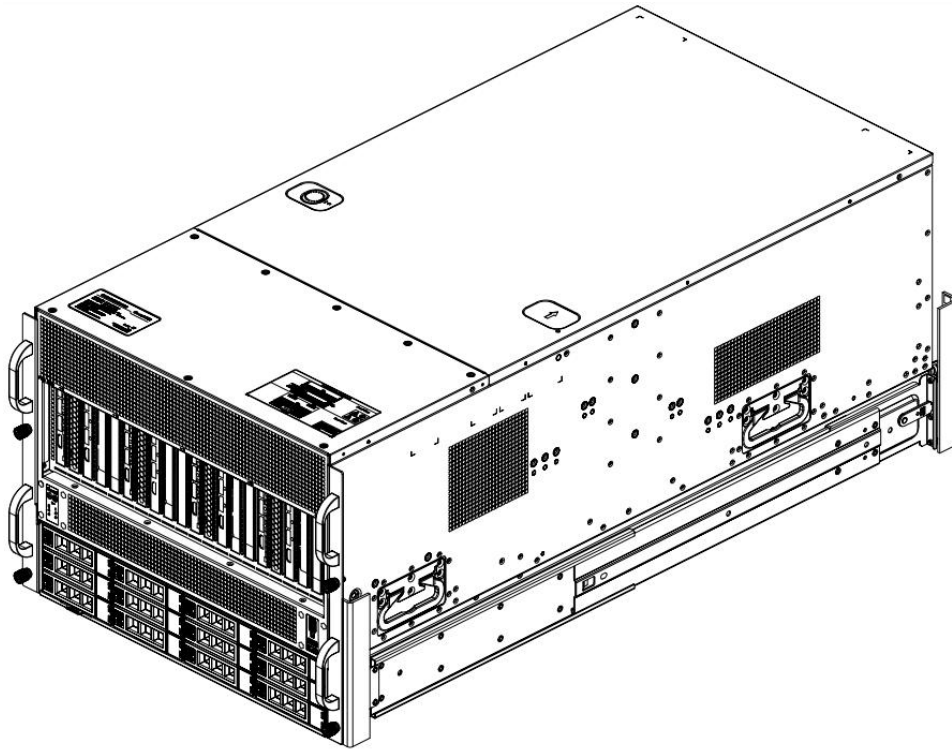


Figure 3-8

- Step 3: Install the outer rails on the cabinet brackets and secure the screws.

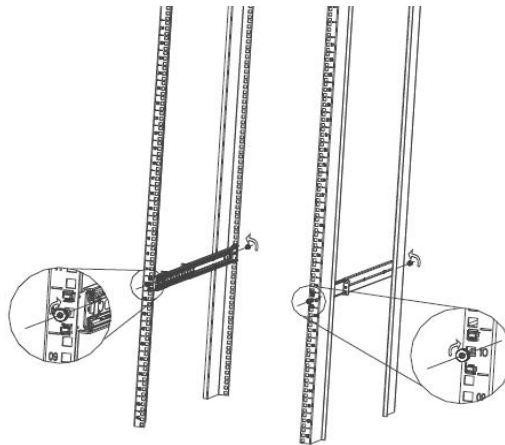


Figure 3-9



Note: When installing the guide rail, align it with the U-mark, and push it into place until you hear a click sound. Secure it firmly using M5 screws.

- Step 4: Align the chassis with the inner rails installed with the outer rails for installation.

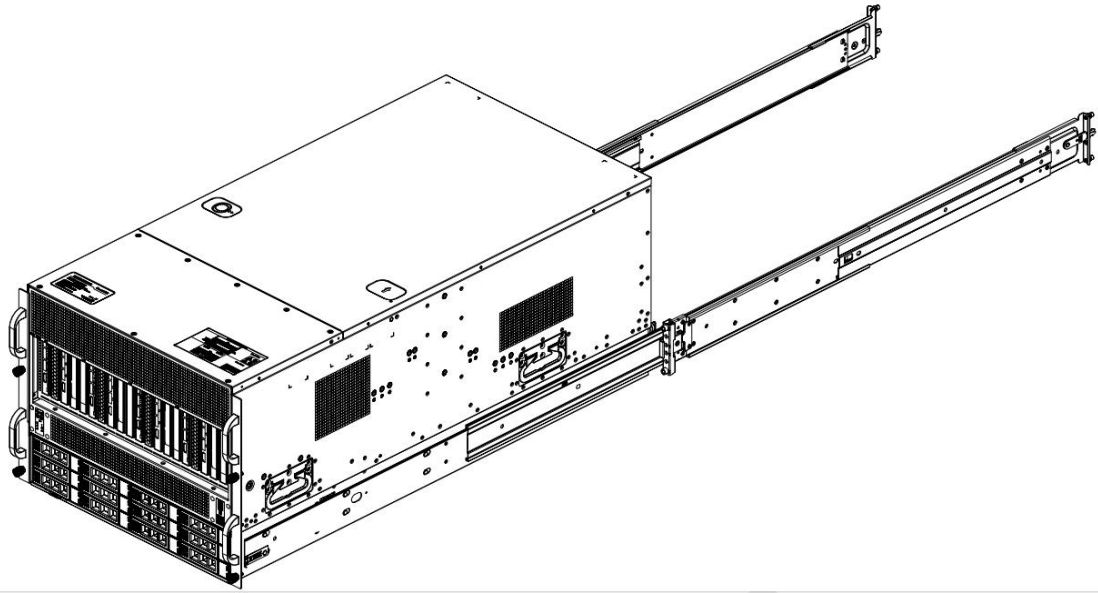


Figure 3-10



Note: When you push the chassis forward, you will hear a snapping sound. If you can't push it, you need to pull down the buckle of the inner rail to continue to push the chassis gently.

- Step 5: Push the chassis forward until it cannot slide and make sure that the screws are securely installed to complete the installation.

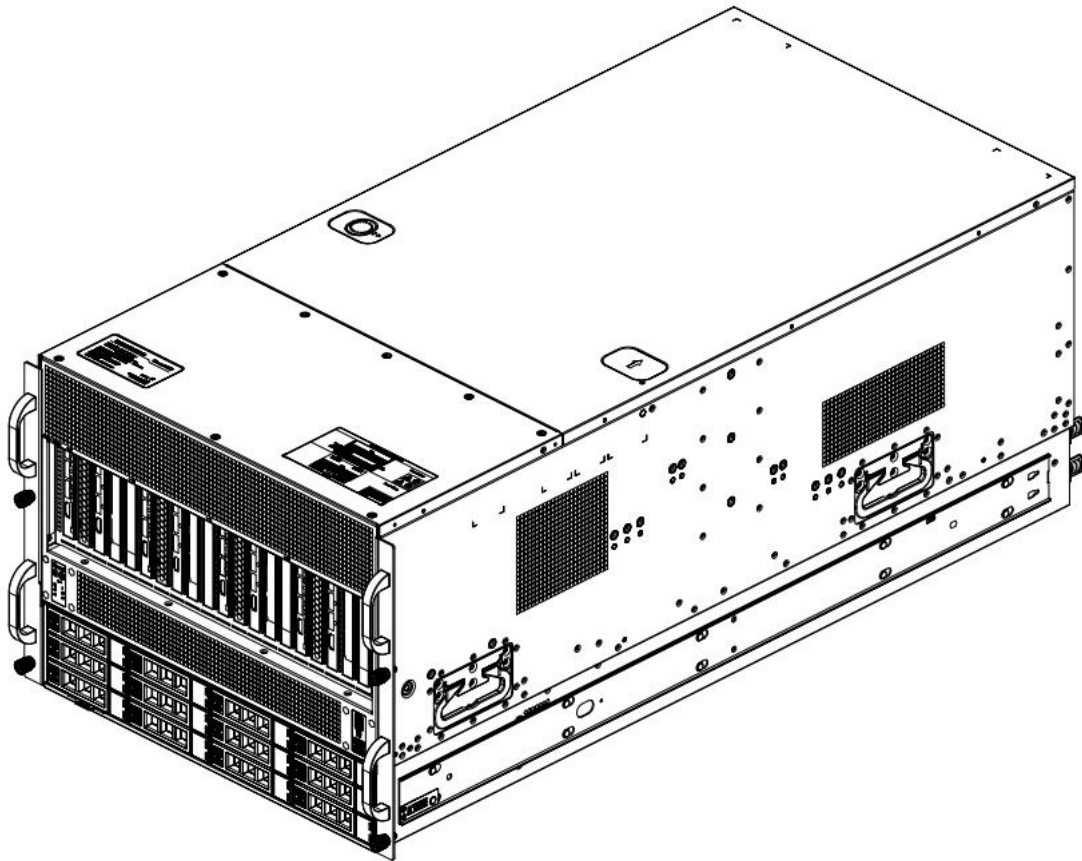


Figure 3-11



Note: During equipment maintenance, it is necessary to loosen the panel screws and pull the chassis lightly. Do not push or pull the chassis at random speed to avoid damage to the equipment.

4. Configuration Instructions

4.1 Initial Configuration

4.1.1 Power on and start

- Before powering on, it is necessary to ensure that all configurations of the server are installed in accordance with the corresponding specifications and standards, and keep the server turned off but not unplugged from the power supply. And all cables are connected properly, and the power supply voltage is consistent with that of the device.
- During the power-on process, please do not plug in hard drives, power modules, network cables or other external devices and cables.
- If the server has just been unplugged from the power supply, please wait for 1 minute before turning on the power.
- Server power-on power status:
The power is on, but the server is not booting up. The power indicator light is yellow.
Power on, the server starts up, and the power indicator light is green.
- How to power on the server:
The server's default power-on policy is "Power-On Boot," which means the server will automatically power on when it receives power. Users can modify this setting in the BIOS Setup interface.
- Press the or <ESC> key on the keyboard during the boot process to enter the BIOS Setup interface, and find the following interface:

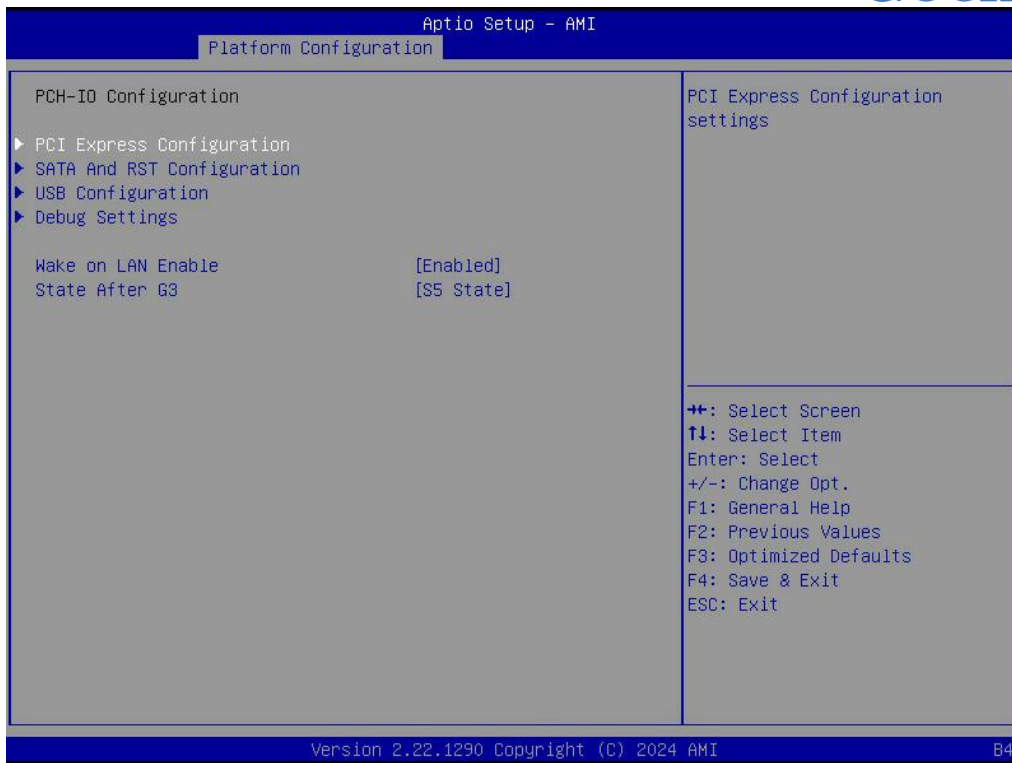


Figure 4-1

- State After G3
The menu options for setting the state after entering G3 status are:
S0 State: Power on and start up directly
S5 State: You need to press the Power button to turn on the power
Default: S5 State
- Logging into the iBMC management interface allows for remote power on/off control.
- Enter the BMC IP address -> enter the BMC account&password -> find the remote control interface -> power controller -> It can be executed according to requirements.



Figure 4-2



For detailed usage of BMC and BIOS, please refer to the corresponding user manual.

4.1.2 Initial data

- BMC default account: admin
- BMC default password: Gooxi@123.
- BMC default address: 192.168.100.1
- BIOS Default Password: N/A

4.1.3 Configure BIOS

Press the or <ESC> key on the keyboard during power-on and start-up to enter the BIOS Setup interface, as shown below:

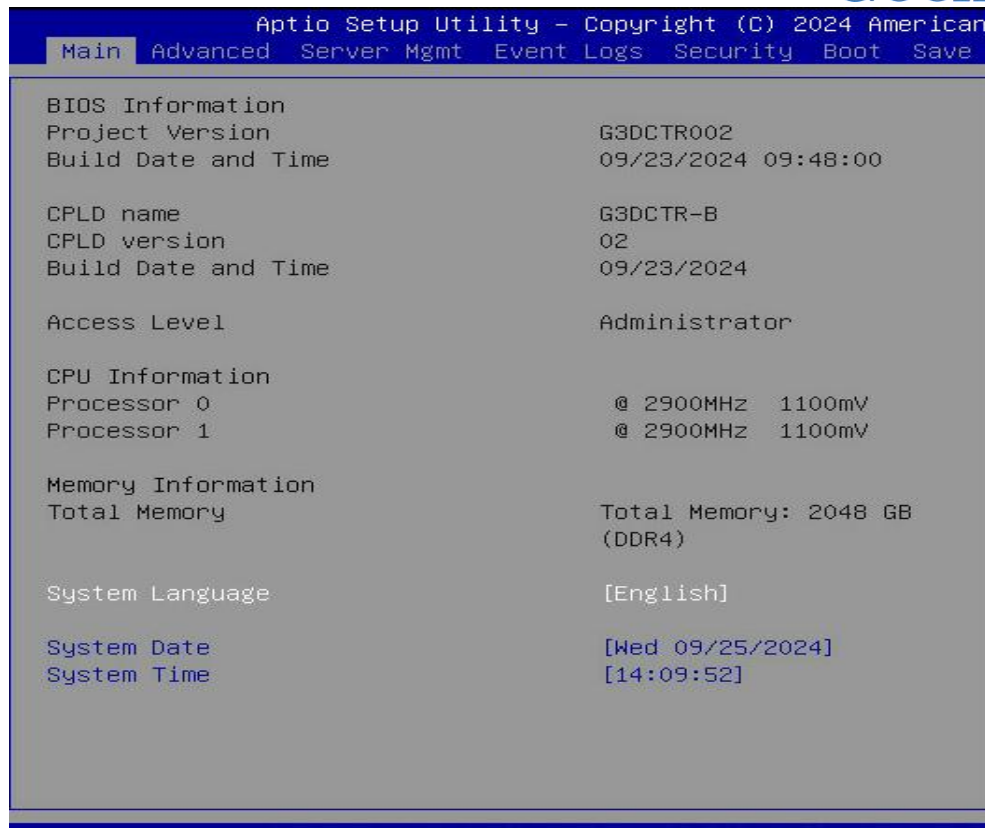


Figure 4-3

The Main interface displays the basic BIOS system information, such as the BIOS version, CPU model, and memory capacity (the specific content may vary depending on the product model). You can also set the system time here. For detailed instructions, please refer to the "BIOS User Manual".

- Navigation key description:

- ←: Select Screen
- ↑↓: Select Item
- Enter: Select
- +/-: Change Opt.
- F1: General Help
- F2: Previous Values
- F3: Optimized Defaults
- F4: Save & Reset
- ESC: Exit

4.1.4 Configure BMC

When the server is powered on, make sure that the BMC dedicated management network port cable is properly connected.

Use another device, make sure it is in the same LAN as the BMC management network, and enter the BMC IP address on the web page. Login interface as shown:

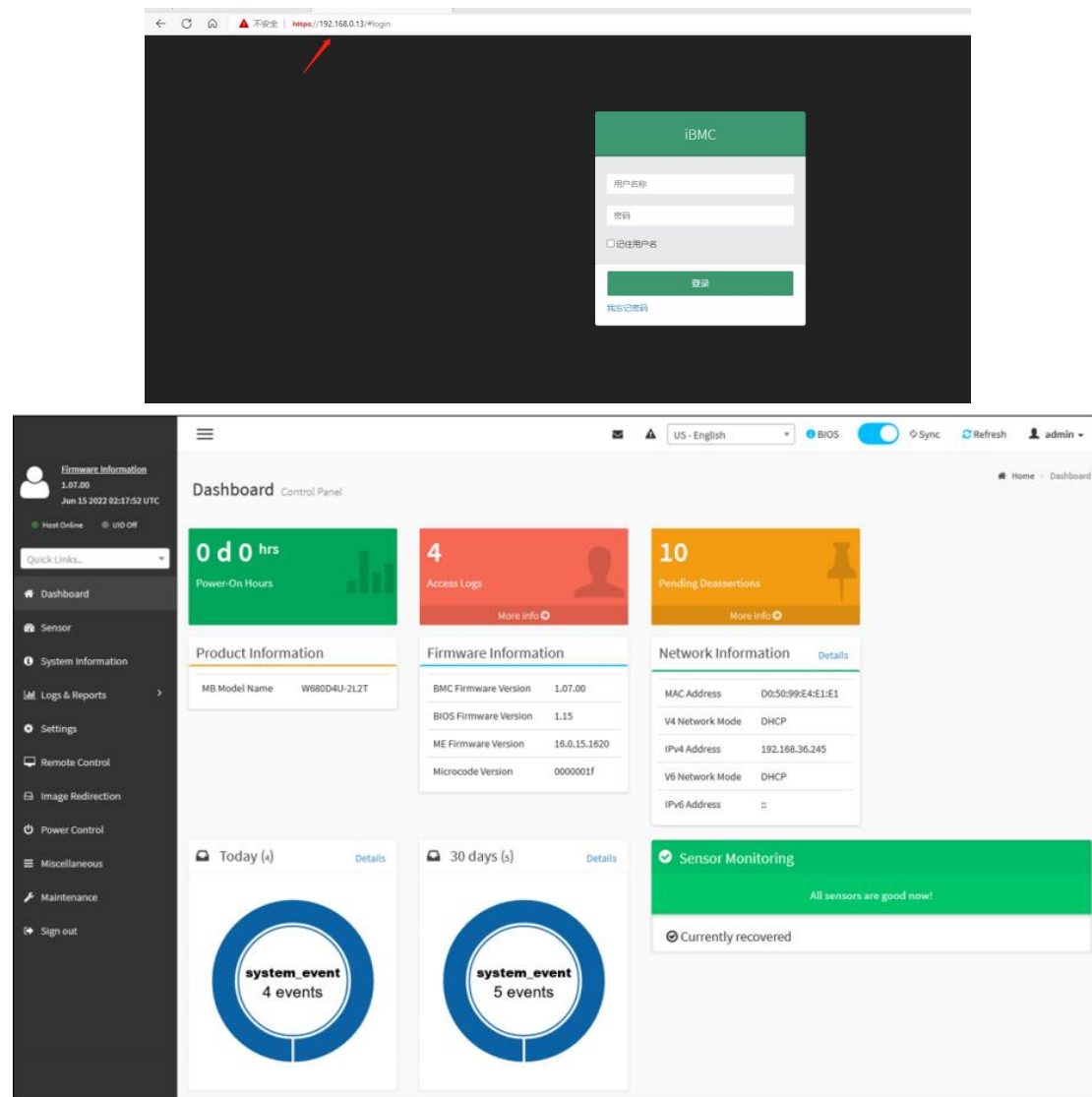


Figure 4-4

After entering the account and password, the system enters the home page, where the BMC IP address can be set in the management interface.

On the left side of the interface, navigate to Settings Page -> Network Settings -> Network IP Settings, as shown below:

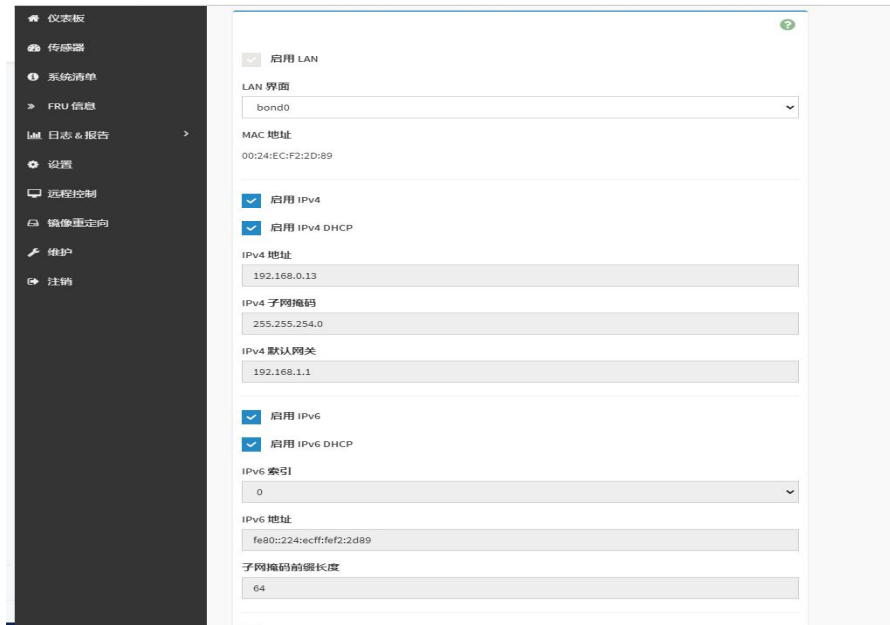


Figure 4-5

When the server is powered on, ensure the BMC dedicated management port cable is properly connected.

Using another device on the same LAN as the BMC management network, enter the BMC IP address in a web browser.

Methods to check the BMC IP address are as follows:

- After powering on the server, during the POST process, check the bottom-left corner of the logo screen for the displayed IP address.
- After powering on the server, during the POST process, press the or <ESC> key to enter the BIOS Setup interface, then switch to the following screen:

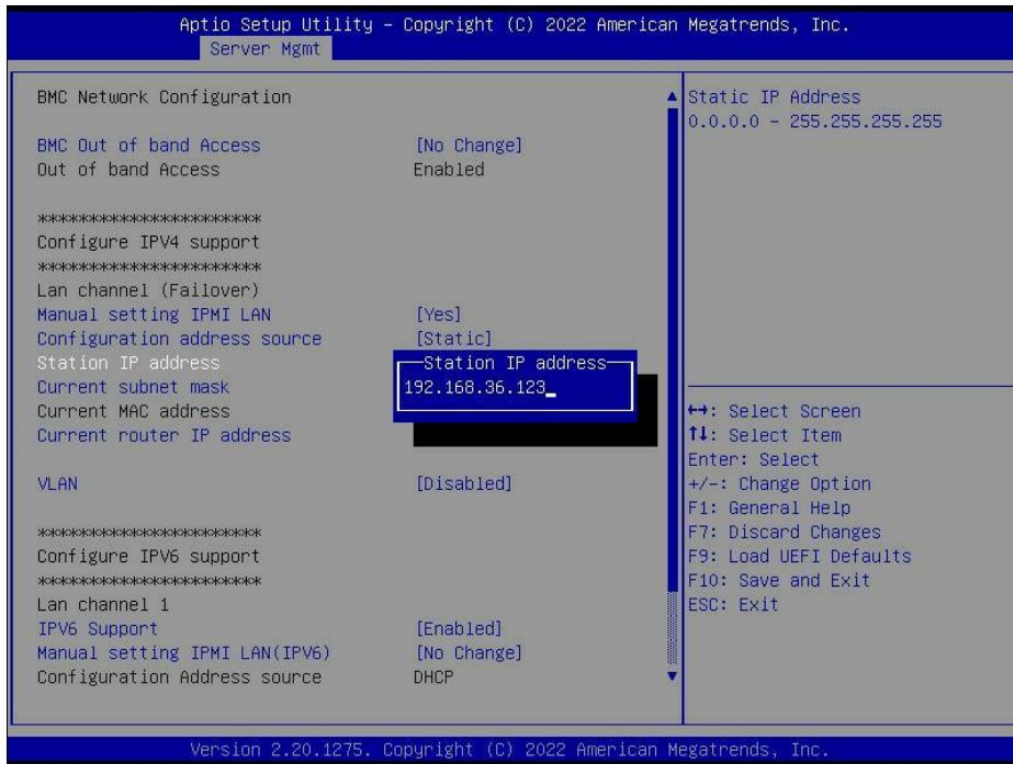


Figure 4-6

- Configure IPV4 support
- BMC sharelink Management Channel
- Configuration Address Source – Configure the BMC IP address allocation mode. Menu options:
 - Unspecified: Do not change BMC parameters (default)
 - Static: BIOS static IP setting
 - DynamicBmcDhcp: BMC runs DHCP to dynamically assign IP
 - DynamicBmcNonDhcp: BMC runs the Non-DHCP protocol to dynamically assign IP
- Configure IPv6 Support – Select whether to enable IPv6. Menu options:
 - Enabled: IPv6 supported (default)
 - Disabled: IPv6 not supported



When changed from Unspecified to another parameter and saved, the option will revert to Unspecified after reboot. There is no need to configure the BMC IP during each startup. When the Configuration Address Source option is set to Unspecified, the system displays the network parameter information (IPv4) of the shared port, including the current IP configuration method, BMC IP, subnet mask, MAC address, gateway IP, and gateway MAC.

5. Appendix

(Common fault diagnosis)

No display after power on

- Make sure the monitor cable is properly connected and the power indicator on the monitor lights up when the monitor is powered on.
- Ensure the monitor is connected to the server.
- If the above steps do not resolve the issue, try replacing the monitor with a known working one to confirm if the original monitor is faulty.
- If the issue persists, please contact Gooxi's customer service department for resolution.

Front Panel Indicator Lights Alarm

- Refer to the instructions in the manual to determine the specific alarm information indicated by the front panel lights and buttons.
- For power failure indicator lights alarm, check if the power module indicator lights on the rear window of the server are abnormal.

If the power module indicator lights are normal, please log in to the BMC web interface to check the BMC logs for any alarms. If there are alarms, please record the specific alarm information and contact Gooxi's customer service department for resolution.

If the power module indicator lights are not normal, please ensure that the server, power module, and power cords are functioning correctly.

- For system alarm indicator lights, first check the external environment.
- For other indicator light alarms, please contact Gooxi's customer service department for resolution.

Abnormal Hard Drive Indicator Lights

- Ensure the hard drives are properly installed.
- Refer to the instructions in the manual to determine the specific alarm information indicated by the rear panel lights and buttons.
- Confirm if the RAID card is configured correctly.
- Check for any drive dropouts during OS installation. If this occurs, please contact Gooxi's customer service department for resolution.

Unable to Use RAID Card

- Ensure the RAID card is properly installed.

- Try reseating the RAID card and PCIe adapter to confirm if they are functioning correctly.
- If replacing the known working RAID card doesn't resolve the issue, please restore to factory settings and update the BIOS version. If the problem persists contact Gooxi's customer service department for further assistance and resolution.

IPMI Connection Failure

- Confirm if the BMC function is correctly enabled in the BIOS.
- Check if the switch and network cables are functioning properly. If the regular IPMI connection is not effective, check the network environment.
- Set static or dynamic IP and ensure ping connectivity. If the web interface does not open, try using a newer version of Internet Explorer.
- If the problem is not resolved, please contact Gooxi's customer service department for further assistance and resolution.

6. Scrap Recycling

- For environmental protection and resource reuse, we earnestly ask you to properly handle discarded server products.
- Before discarding the server, we recommend that you completely demagnetize the storage media, clear data, and physically destroy them to ensure that your personal data is not leaked.
- In order to recycle and reuse, please hand over the discarded server to local recycling companies for processing. This will ensure that electronic waste is properly handled and can be put back into use after environmental treatment.