

Gooxi R6480T5

4U 60-Bay Dual-Socket Storage Server

User Manual

Document version: V1.0
Release date: 2026/04/21

Shenzhen Gooxi Digital Intelligence Technology Co., Ltd



Environmental Protection

This product complies with environmental protection design requirements. The storage, use, and disposal of the product shall adhere to applicable national laws and regulations.

Statement

Copyright Statement

© Shenzhen Gooxi Digital Intelligence Technology Co., Ltd. All rights reserved.

This user manual, including but not limited to all information contained herein, is protected by copyright law.

Without the permission of Shenzhen Gooxi Digital Intelligence Technology Co., Ltd. (hereinafter referred to as "Gooxi"), no one may engage in any behavior such as imitation, copying, excerpting, forwarding, or other forms of utilization.

Disclaimer

Gooxi provides this user manual "as is" and to the extent permitted by law, makes no express or implied warranties or guarantees, including but not limited to merchantability, fitness for a particular purpose, non-infringement of any rights of others, and any warranties or guarantees regarding the use or inability to use this user manual. Gooxi also does not provide any warranties or guarantees regarding the accuracy or reliability of any information obtained using this user manual.

Due to product version upgrades or other reasons, the content of this user manual may be periodically updated. Unless otherwise specified, this user manual is provided solely as a usage guide, and users shall bear all risks associated with the use of this user manual.

Trademark Statement

Gooxi® is a trademark of Shenzhen Gooxi Digital Intelligence Technology Co., Ltd.

Microsoft® and Windows is a trademark of the Microsoft group of companies.

Linux® is a registered trademark of Linus Torvalds.

Aspeed® is a trademark of ASPEED Technology Inc.

Ownership of other trademarks belongs to their respective owners.

Foreword

This manual is the product technical white paper for the R6480T5 server, mainly introducing and explaining the appearance, structure, hardware installation, and basic configuration of this product.

Intended Audience

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.

Symbol Conventions:

This manual uses prominent symbols to indicate items that require attention during operation:

	Warning	Indicates important information related to equipment or environmental safety. Failure to follow these instructions may result in equipment damage, data loss, performance degradation, or other unforeseen consequences.
	Danger	Indicates important information related to equipment or environmental safety. Failure to follow these instructions may result in equipment damage, data loss, performance degradation, or other unforeseen consequences.
	Blue Arrow	Indicates actions such as removal, insertion, or angled insertion.
	Red Arrow	Indicates a specific location or direction.
	Hollow Arrow	Indicates the next step or resulting action.
	Dark Blue Rotating Arrow 1	Indicates tightening screws clockwise or pulling outward.
	Dark Blue Rotating Arrow 2	Indicates loosening screws counterclockwise or pushing inward to secure.

Modification Record

Manual version	Release date	Modification
V1.0	2026/04/21	First release

Contents

Statement.....	3
Foreword.....	4
1. Product Introduction.....	7
1.1 Product Overview	7
1.2 Product Features	8
1.3 Product Structure	9
1.4 Logical Topology	10
1.5 Product Specifications	11
2. Hardware Description.....	12
2.1 Front Panel	12
2.2 Rear Panel	14
2.3 Processors	15
2.4 Memory	16
2.5 Storage	17
2.6 Power Supply	18
2.7 Fans	19
2.8 PCIE Expansion	20
2.9 PCIE Expansion Module	21
2.10 Motherboard	22
3. Installation Instructions.....	25
3.1 Chassis Top Cover Installation	25
3.2 Installation of Accessories	25
4. Configuration Instructions.....	31
4.1 Initial Configuration	31
5. Appendix	39
6. Scrap Recycling.....	41

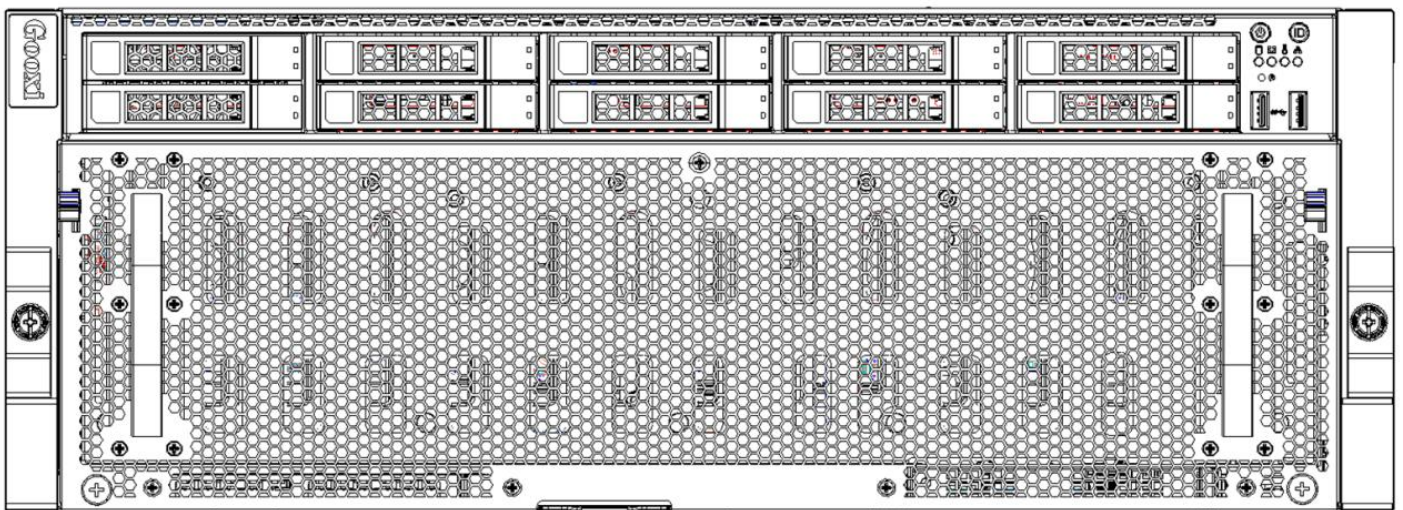
1. Product Introduction

1.1 Product Overview

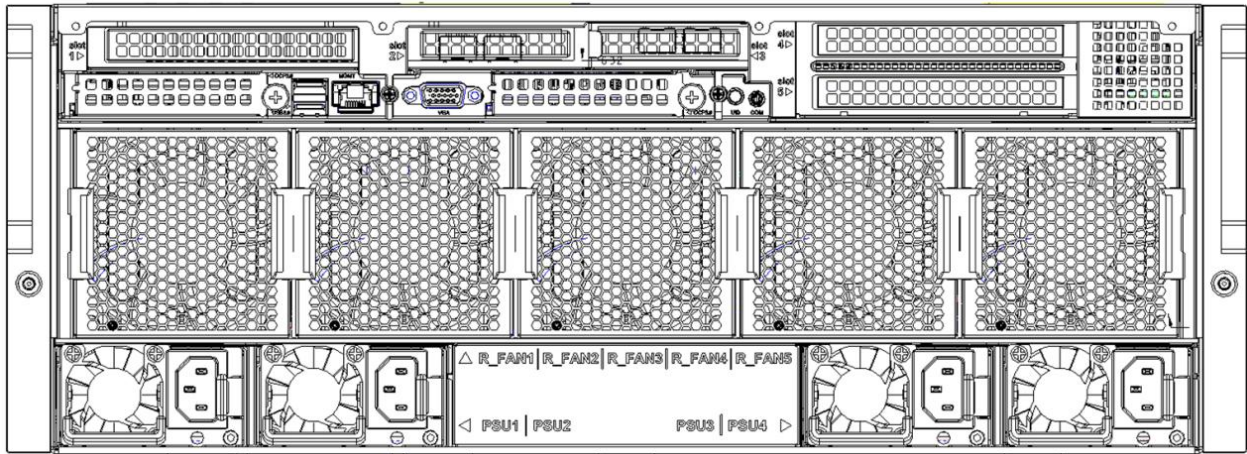
Gooxi R6480T5 storage server is built on the Intel Eagle Stream platform and supports 4th/5th Gen Intel® Xeon® Scalable processors, with up to 64 cores per processor. It delivers powerful computing performance to efficiently support high-load workloads such as big data analytics and AI data preprocessing. The system is equipped with 32 DDR5 DIMM slots and supports PCIe 5.0.

With a 4U form factor, Gooxi R6480T5 supports up to 60×3.5 -inch drives, while also supporting high-performance NVMe storage acceleration. It provides a comprehensive solution for high-capacity data storage, efficient data processing, and flexible expansion. It is suitable for distributed storage, big data, and backup and archiving applications across telecommunications operators, Internet companies, enterprises, and other industries.

● Server Front Panel



- Server Rear Panel



1.2 Product Features

High-Performance Computing Platform

- Built on the Intel Eagle Stream (EGS) platform and supports 4th/5th Gen Intel® Xeon® Scalable processors, with up to 64 cores per processor and a maximum TDP of 350W.

Ultra-High-Capacity Storage

- 4U rackmount design with 60×3.5 -inch SAS/SATA drive bays and up to 10×2.5 -inch SAS/SATA/NVMe drive bays, enabling petabyte-scale storage deployments for high-volume data storage applications.

High-Speed Memory and I/O Expansion

- Equipped with 32 DDR5 DIMM slots supporting data transfer rates of up to 5600 MT/s. Combined with the PCIe 5.0 bus, it significantly enhances data read/write performance and I/O expansion bandwidth.

Stable, Reliable, and Easy to Maintain

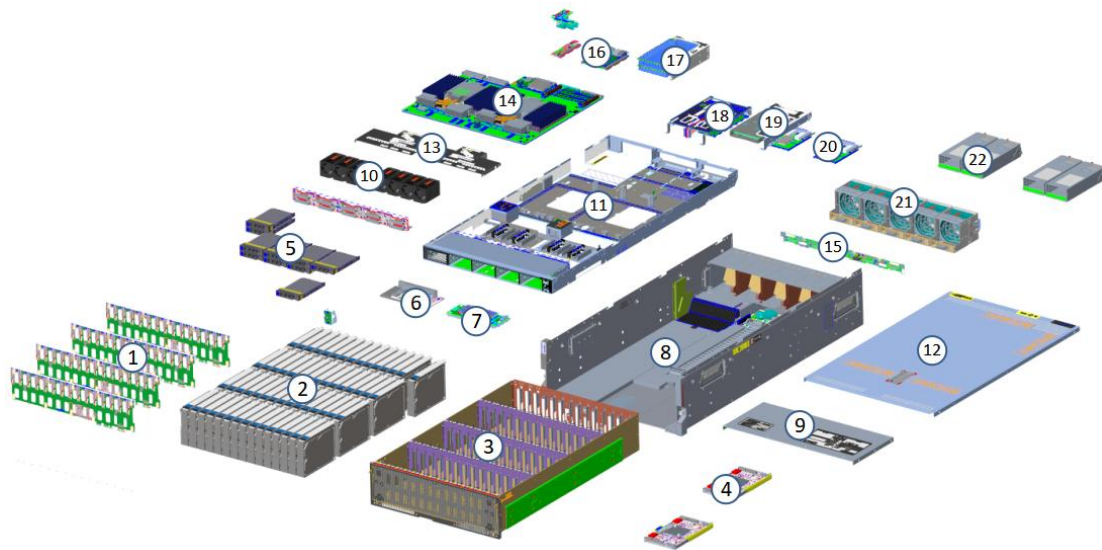
- Supports redundant power supplies, redundant cooling, and hot-swappable drives, reducing the risk of downtime during maintenance and helping ensure continuous, stable operation of data storage and business applications.

Broad Application Scenarios

- Combines computing and storage capabilities to support capacity-intensive workloads such as warm/cold data archiving, distributed storage, big data analytics, and video surveillance.

1.3 Product Structure

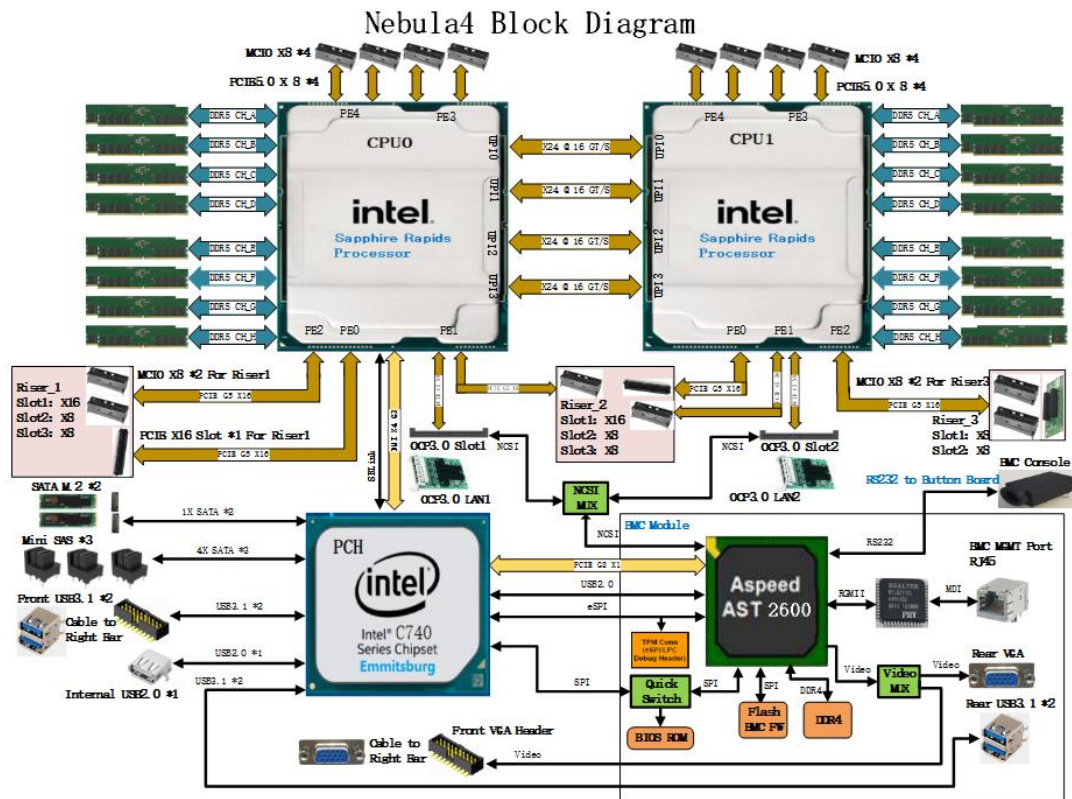
The server components of the R6480T5 model is shown below:



No.	Name	No.	Name
1	Internal Drive Backplane	12	Chassis Top Cover
2	Internal Drive	13	Air Duct
3	Storage Drive Cage	14	Motherboard
4	Expansion Board	15	Fan Power Board
5	Front Drive	16	BMC Board
6	RAID Card	17	Riser 3 Module
7	M.2 Adapter Board	18	Riser 1 Module
8	Chassis	19	Riser 2 Module
9	Front Top Cover	20	OCP NIC
10	4056 Fan	21	8056 Fan
11	Upper Chassis	22	Power Supply Module

1.4 Logical Topology

The internal layout of the R6480T5 server is shown below:



Motherboard Logical Block Diagram

- The CPU supports 4th/5th Gen Intel® Xeon® Scalable processors and uses an LGA4677 socket
- Each CPU supports 8 memory channels, with 2 DDR5 RDIMM/LRDIMM modules supported per channel
- The motherboard features 2 onboard SATA M.2 slots supporting 22110/2280 form factors
- The PCH uses the Intel C740 series chipset
- The BMC uses the ASPEED AST2600 controller, providing IPMI remote management, VGA output, and a dedicated Gigabit RJ45 management port. The BMC is also connected to the PCH through RMII/NCSI

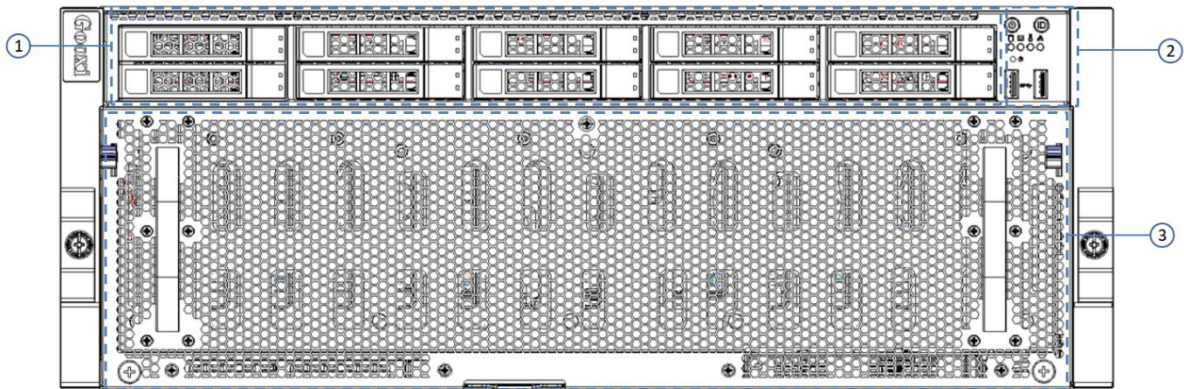
1.5 Product Specifications

Product Series	R6480T5
Form Factor	4U, 60-Bay
Dimensions	899 mm × 448 mm × 175.4 mm (D × W × H)
Processor	Supports 1 or 2 4th/5th Gen Intel® Xeon® Scalable processors, TDP up to 350W
Memory	32 × DDR5 DIMM slots; supports DDR5 RDIMM 4400/4800 MHz
Internal Storage Interfaces	3 × MiniSAS HD interfaces; 2 × SATA M.2 interfaces (22110/2280)
Hard Drives	Front: 10 × 2.5-inch SAS/SATA/NVMe drives Internal drive cage: 60 × 3.5-inch SAS/SATA drives
External Ports	Front: 2 × USB 3.0
	Rear: 1 × VGA, 1 × COM, 2 × USB 3.0, 1 × RJ45 Gigabit management port
PCIe Expansion Form Factor	3 × full-height PCIe slots, 2 × low-profile PCIe slots, 2 × OCP 3.0 slots
PCIe Expansion	Riser 1: 1 × full-height PCIe 5.0 x16 Riser 2: 2 × low-profile PCIe 5.0 x8 (in PCIe x16 slots) Riser 3: 2 × full-height PCIe 5.0 x8 (in PCIe x16 slots) OCP: 2 × OCP 3.0 (PCIe 5.0 x8)
Power Supply	Supports redundant 1300W, 1600W, 2000W, and 2200W AC 220V power supplies, depending on the actual power requirements
Fan	Compute layer: 7 × 4056 hot-swappable N+1 redundant fans Storage layer: 5 × 8056 fans
Security	TPM module supported
IPMI	IPMI 2.0
Management Port	1 × dedicated RJ45 management port
RoHS	RoHS 2.0 compliant
Operating Temperature/Humidity	5°C–35°C / 20%–80% RH, non-condensing
Storage Temperature/Humidity	Short-term storage (≤72 hours): -40°C–70°C / 20%–90% RH, non-condensing (including packaging)
	Long-term storage (>72 hours): 20°C–28°C / 30%–70% RH, non-condensing (including packaging)

2. Hardware Description

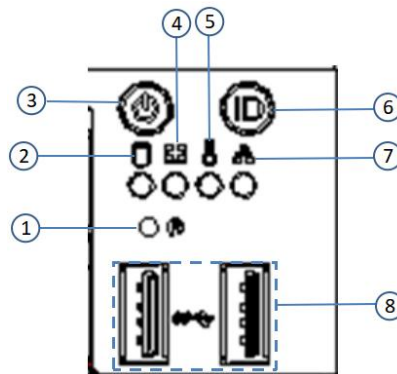
2.1 Front Panel

- Appearance



No.	Name	No.	Name
1	Front 2.5" Drive Module	3	Internal 3.5" Drive Module
2	Right Rack Ear Assembly	4	

● Indicator lights and buttons



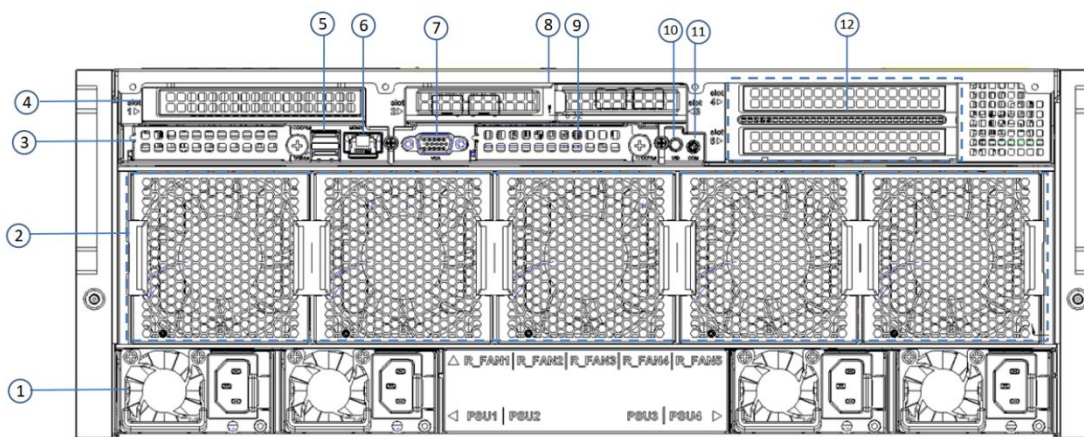
No.	Indicator/Button	No.	Indicator/Button
1	Reset Button	5	OCP1 NIC Status Indicator
2	Drive Activity Indicator	6	UID Button Indicator
3	Power Button/Indicator	7	OCP2 NIC Status Indicator
4	System Alarm Indicator	8	USB 3.0 Port
Status Description			
Logo	Indicator light/button	Status description	
	Power 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: Press the button shortly 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. Press the button shortly in the power-on state to start the machine.	
	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	Blinks when the drive connected to the southbridge is reading or writing data	

	System Alarm Indicator	System warning indicator. Including system alarms, fan alarms, power supply alarms, etc., which can be viewed through the IPMI management software
	OCP1 NIC Status Indicator	Indicates the status of the OCP1 NIC: Green (steady on): The OCP1 NIC is installed and detected. Off: The OCP1 NIC is not installed or has failed. Note: Corresponds to the two OCP NICs on the motherboard.
	OCP2 NIC Status Indicator	Indicates the status of the OCP2 NIC: Green (steady on): The OCP2 NIC is installed and detected. Off: The OCP2 NIC is not installed or has failed. Note: Corresponds to the two OCP NICs on the motherboard.
USB Port	USB 3.1	Used to connect USB devices

2.2 Rear Panel

- Appearance

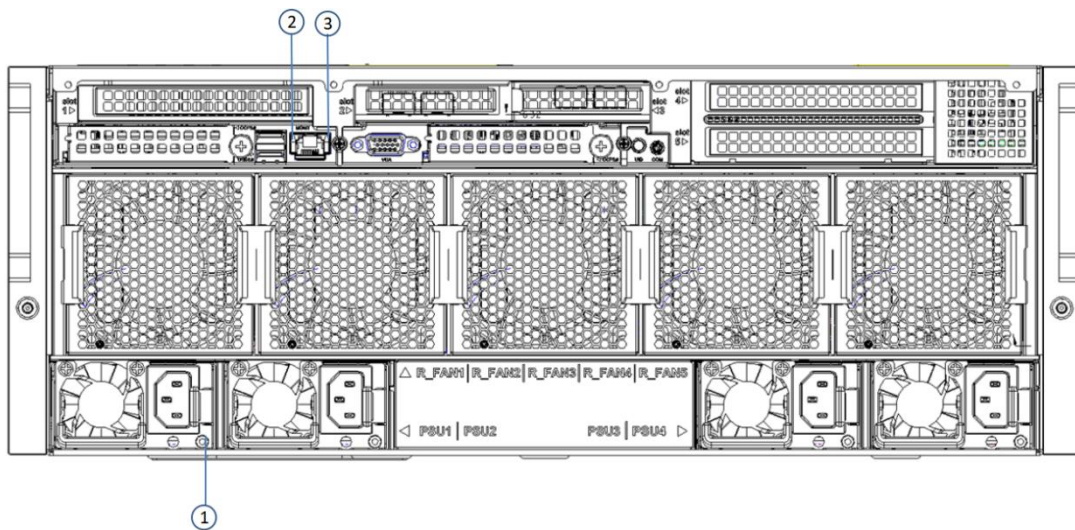
- Rear panel appearance



- Description

No.	Name	No.	Name
1	Power Supply Module	7	VGA Port
2	Rear Fan Module	8	Riser2 Module
3	OCP1 NIC Slot	9	OCP2 NIC Slot
4	Riser1 Module	10	UID Button
5	USB 3.0 Port	11	COM Port
6	Management Port	12	Riser3 Module

- Rear panel indicator



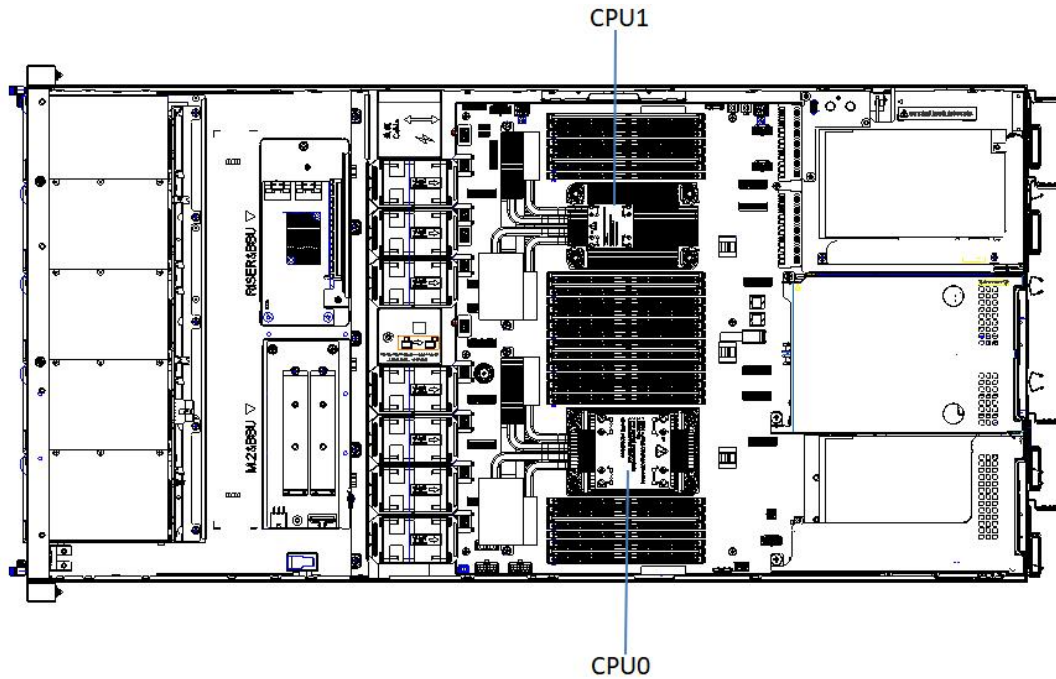
No.	Name	No.	Name
1	Power Supply Module Status Indicator	3	Management Port Data Activity Indicator
2	Management Port Link Status Indicator		

- Power Module Indicator Description

Indicator/Button	Status Description
Power module indicator	Green (solid): Input and output are normal. Amber (solid): AC power cable is disconnected or the power module is missing; only one parallel power module has AC input; or the power module output is shut down due to a fault, such as OVP, OCP, or fan failure. Off: No AC power input.

2.3 Processors

- Supports one or two 4th/5th Gen Intel® Xeon® Scalable processors
- When installing a single processor, install it in the CPU 0 socket
- 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:

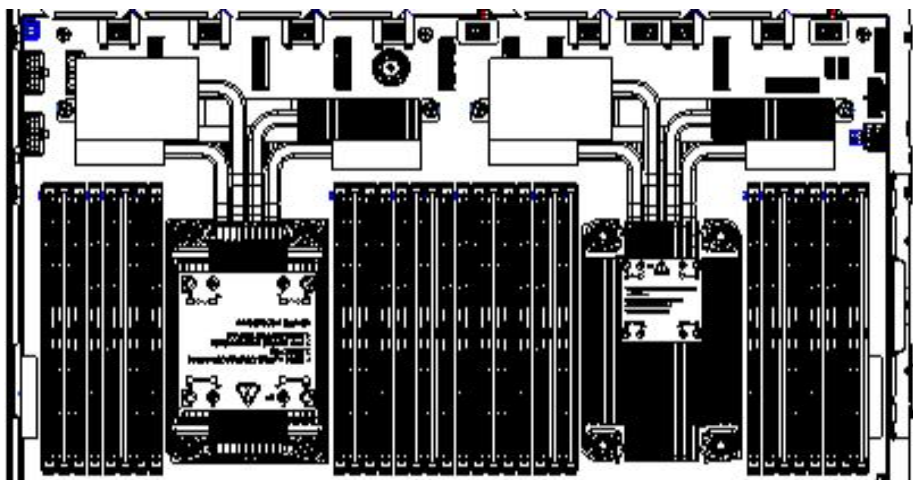


2.4 Memory

- Memory slot location

This motherboard is based on the Intel Eagle Stream platform. Each CPU supports 8 memory channels, with 2 DDR5 DIMMs per channel, and the motherboard supports up to 32 DDR5 DIMMs. When installing a single memory module, prioritize slots A0, B0, C0, D0, E0, F0, G0, and H0 (the memory slots are blue). The motherboard supports DDR5 ECC RDIMM/RDIMM-3DS server memory. The memory slot locations are shown in the figure below.

- memory slot location



- memory installation guidelines

DDR5 memory slots support memory speeds up to 5600 MT/s and support DIMM, RDIMM, and 3DS-RDIMM types, with a total of 32 slots.

DIMM: Supports single module capacities from 16GB to 256GB;

RDIMM: Supports single module capacities from 16GB to 128GB;

3DS-RDIMM: Supports single module capacities from 16GB to 512GB;

For detailed supported DIMM capacities and types, refer to the official Intel documentation and the component AVL



Note:

- All DDR5 memory modules installed in the same server must use the same Part Number (P/N) and operate at the same speed. The final operating speed will be the lowest value among the following:
- Maximum supported memory speed of the specific CPU
- Maximum operating speed of the specific memory configuration
- Different types (DIMM、RDIMM、3DS-RDIMM) and different specifications (capacity, bus width, rank, height, etc.) of DDR5 memory cannot be mixed
- Different Intel Eagle Stream CPU models support different maximum memory capacities. For details, refer to the Intel CPU list

General installation guidelines for DDR5 memory:

- At least one DDR5 memory module must be installed
- All configured memory modules must have the same rank
- When no memory is installed, dummy DIMMs must be installed in the memory slots

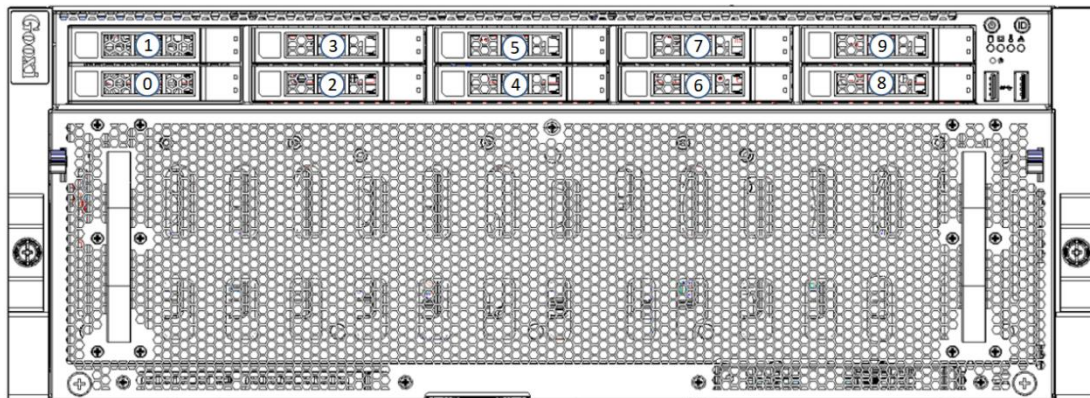
Parameter Type	Parameter Value			
Single DDR5 DIMM capacity (GB)	32	64	96	128
Frequency (Hz)	4800 / 5600 (depending on different CPUs)			
Operating voltage (V)	1.1			
Maximum memory modules per system	32			
Maximum system memory capacity (GB)	1024	2048	3072	4096

2.5 Storage

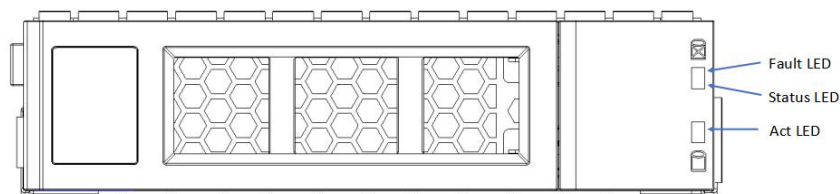
- Hard drive configuration

Configuration	Front Drive	Description
System Configuration	Supports up to 10 × 2.5" front drives: – Bays 0–7 support NVMe/SAS/SATA drives – Bays 8–9 support NVMe drives only	Supports up to 60 × 3.5" SAS/SATA drives

- Hard drive serial number



- Hard drive status indicator

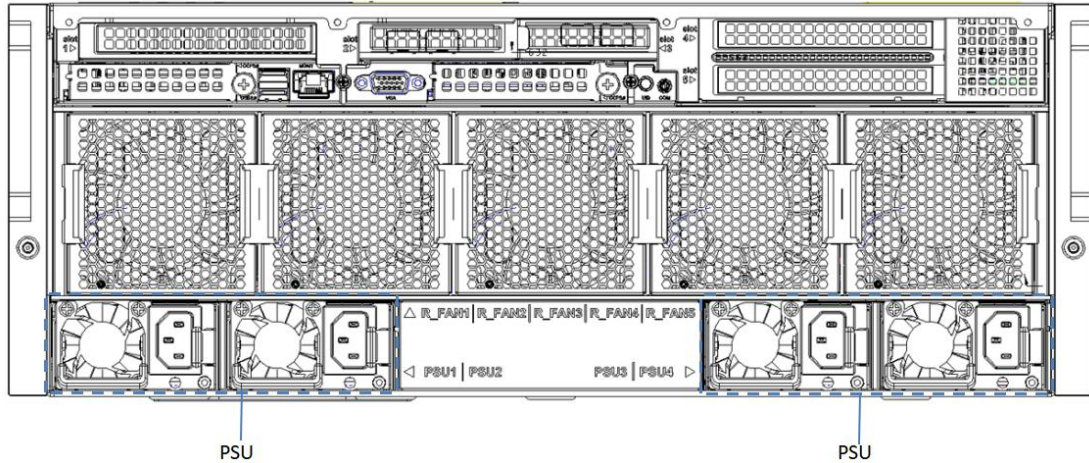


- Hard drive status indicator description

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

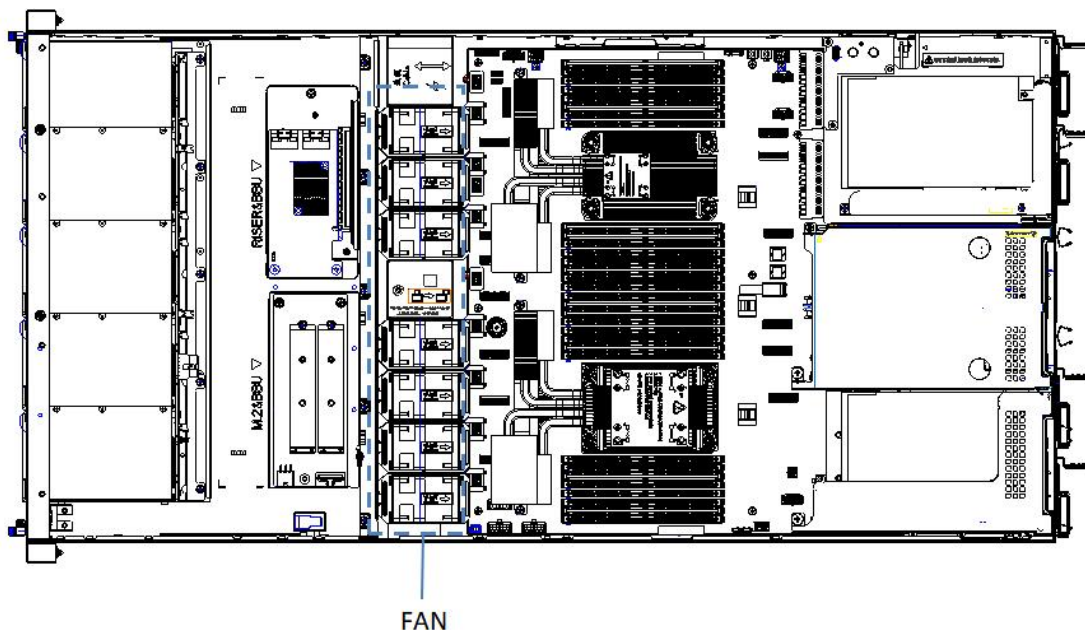
2.6 Power Supply

- Equipped with four power supply modules, supporting 3+1 redundancy
- Supports hot-swapping
- Power supply modules installed in the same server must be of the same model
- For available system options, please contact Gooxi Sales
- The power supply locations are shown in the figure below:



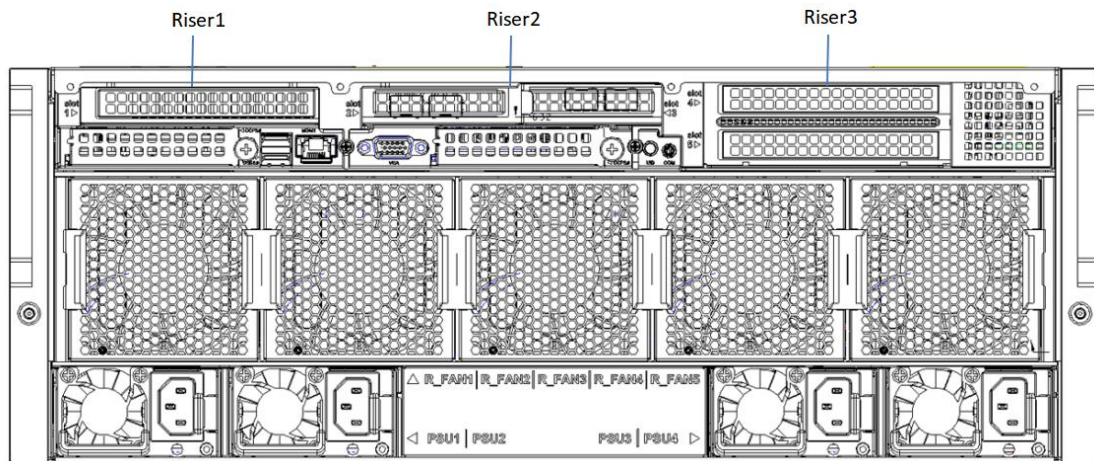
2.7 Fans

- Supports seven fan modules
- Supports hot-swapping
- Supports single-fan failure
- Supports variable fan speeds
- Fan modules installed in the same server must be of the same model
- The fan locations are shown in the figure below:



2.8 PCIe Expansion

- Rear PCIe slot location



- The Riser1 module corresponds to Slot 1 and supports a single-slot, full-height, half-length PCIe expansion module
 - The Riser2 module corresponds to Slots 2 and 3 and supports a dual-slot, low-profile, half-length PCIe expansion module
 - The Riser3 module corresponds to Slots 4 and 5 and supports a dual-slot, full-height, half-length PCIe expansion module
- PCIe slot description

PCIe slot silkscreen	Subordinate CPU	PCIe standard	Bus bandwidth	Slot size
OCP1	CPU0	PCIe 5.0	X8	
OCP2	CPU1	PCIe 5.0	X8	
Slot 1	CPU0	PCIe 5.0	X16	FHHL
Slot 2	CPU0	PCIe 5.0	X8	HHHL
Slot 3	CPU0	PCIe 5.0	X8	HHHL
Slot 4	CPU1	PCIe 5.0	X8	FHHL
Slot 5	CPU1	PCIe 5.0	X8	FHHL

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.

◆ PCIe slots with full-height, full-length form factor are backward compatible with full-height, half-length and half-height, half-length PCIe cards; PCIe slots with full-height, half-length form factor 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

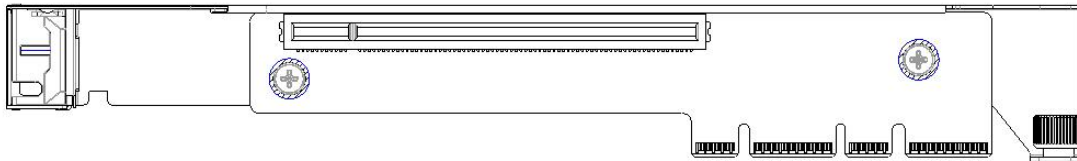
consumption depends on the specific model of the PCIe card.

2.9 PCIe Expansion Module

- PCIe expansion module 1

x16-to-x16 riser card

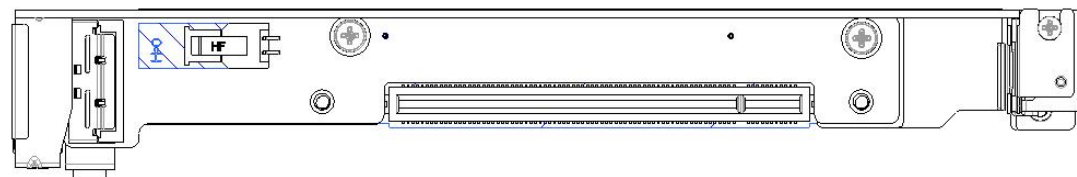
-Installed in the Riser1 position and provides PCIe Slot 1



- Dual PCIe expansion module 2

two x8-to-x8 riser cards

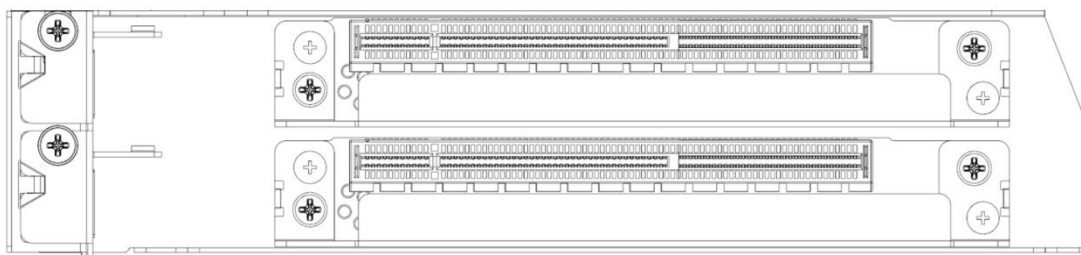
-Installed in the Riser2 position and provides PCIe Slots 2, slot 3



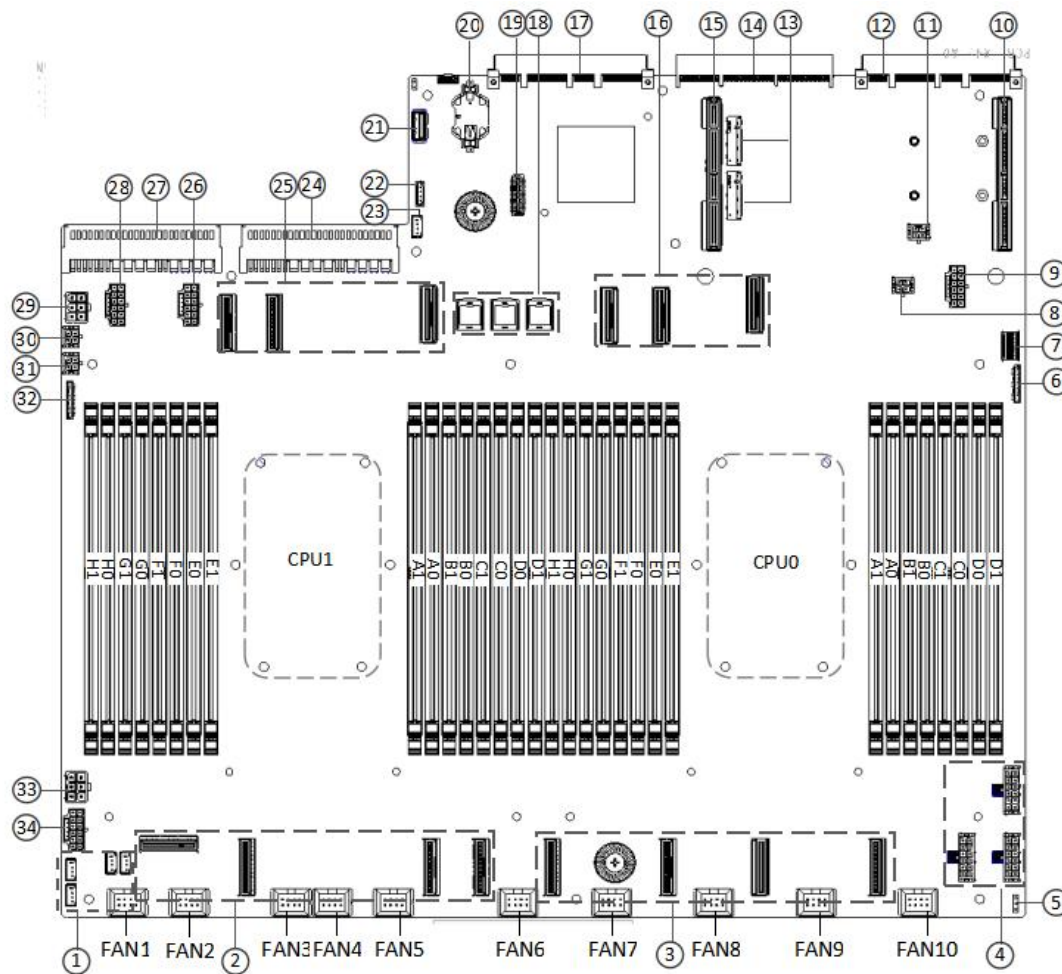
- Dual PCIe expansion module 3

two x8-to-x8 riser cards

-Installed in the Riser3 position and provides PCIe Slots 4, slot 5



2.10 Motherboard



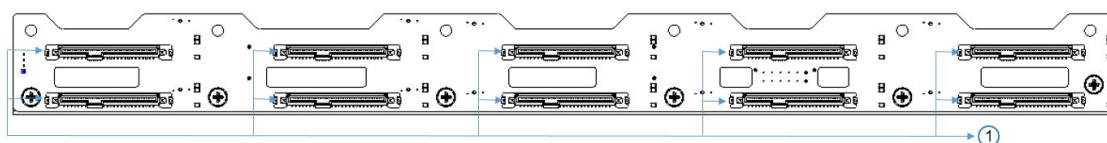
No.	Name	No.	Name
CPU0	CPU0 DDR5vMemory Channel 1,2,3,4		
DIMMA1/A0/B1/B0/C1/C0/D1/D0	Connectors		
CPU0	CPU0 DDR5 Memory Channel 8,7,6,5		
DIMMH0/H1/G0/G1/F0/F1/E0/E1	Connectors		
CPU1	CPU1 DDR5 Memory Channel 1,2,3,4		
DIMMA1/A0/B1/B0/C1/C0/D1/D0	Connectors		
CPU1	CPU1 DDR5 Memory Channel 8,7,6,5		
DIMMH0/H1/G0/G1/F0/F1/E0/E1	Connectors		
1	2 × HDD Backplane I2C Connectors, 2 × MCIO I2C Connectors	2	4 × MCIO x8 Connectors (CPU1)
3	4 × MCIO x8 Connectors (CPU0)	4	3 × 2×6-Pin HDD Backplane Power Connectors
5	Chassis Intrusion Connector	6	Right Front Panel VGA Connector

7	Right Front Panel USB 3.0 Connector	8	NIC AUX Power Connector
9	2×6+4-Pin High-Power GPU Connector	10	CPU0 PCIe 5.0 Port 0 x16 GEN-Z 1.0 Connector
11	Rear HDD (2-Drive) Backplane Power Connector	12	CPU0 OCP 3.0 Connector
13	SATA M.2 Connector	14	BMC Module Board-to-Board Connector
15	CPU1 PCIe5.0 Port0 X16 GENZ168 Connector	16	3 × MCIO x8 Connectors (CPU0)
17	CPU1 OCP3.0 Connector	18	SATA Connector
19	BMC Module Cable Connector	20	Coin-Cell Battery
21	USB Port	22	RAID KEY Connector
23	HDD Backplane I2C Connector	24	3000W PSU High-Power Connector
25	3 × MCIO x8 Connectors (CPU1)	26	2×6+4-Pin High-Power GPU Connector
27	3000W PSU High-Power Connector	28	2×6+4-Pin High-Power GPU Connector
29	Rear Riser PCIe 5.0 Backplane Power Connector	30	Rear HDD (2-Drive) Backplane Power Connector
31	Rear HDD (2-Drive) Backplane Power Connector	32	Left Front Panel Connector
33	Rear HDD (2-Drive) Backplane Power Connector	34	2×6+4-Pin High-Power GPU Connector

● Hard drive backplane

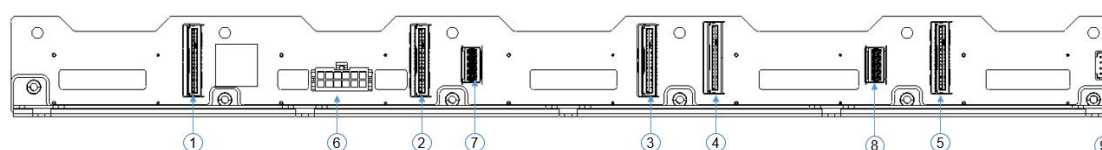
● 10x 2.5-inch Backplane

TOP surface



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

Bottom surface

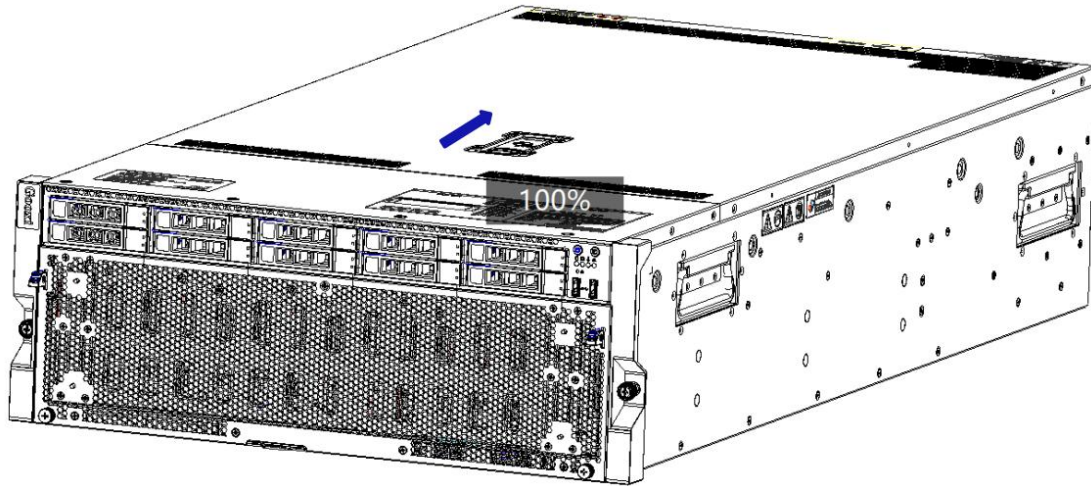


No.	Description	Function
1, 2, 3, 4, 5	MCIO Connector	Provides PCIe x8 interface for connection to CPU and NVMe SSDs
6	Power Connector	Backplane power transmission connector for 12V and 5V power
7,8	SFF-8654 Slimline Connector	Provides SAS/SATA x4 interface for PCH or HBA/RAID card
9	IIC Connector	Used to connect to the I2C interface on the motherboard for communication with the BMC

3. Installation Instructions

3.1 Chassis Top Cover Installation

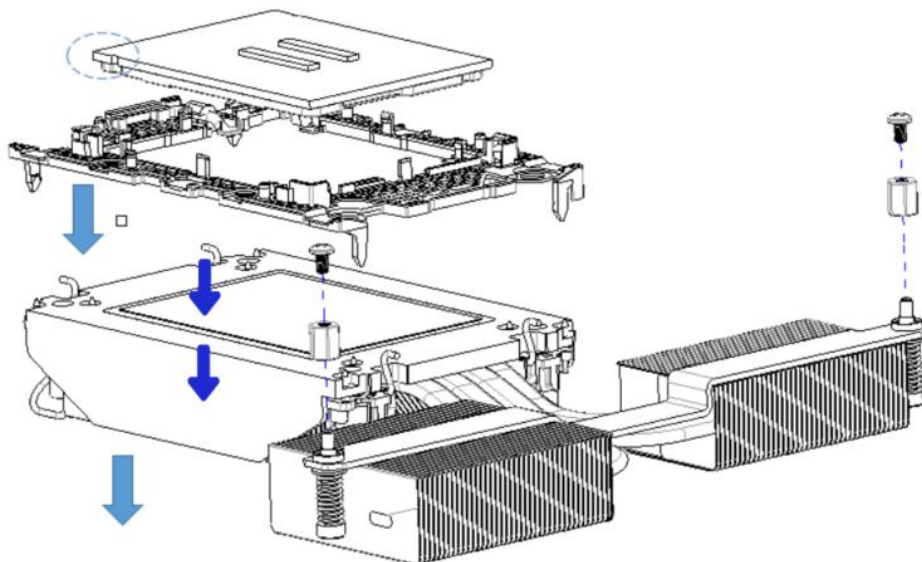
- Step 1: Lift the slot at the opening position, push and lift it in the direction indicated by the diagram.



3.2 Installation of Accessories

CPU installation

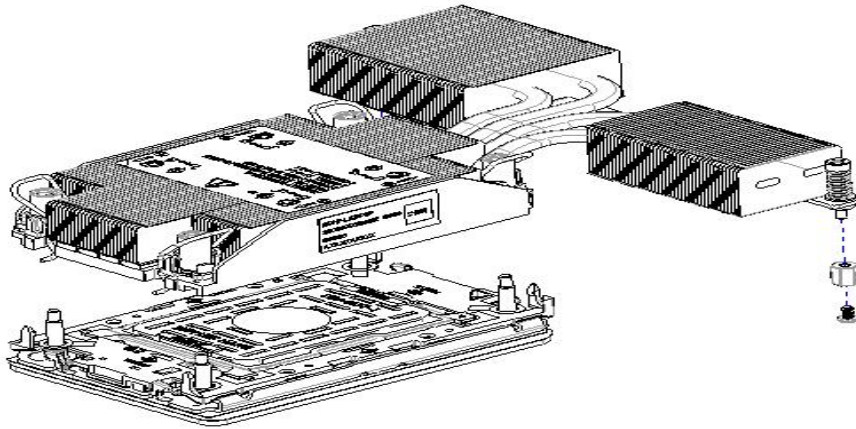
- Step 1: Align the triangular mark on the CPU with the handle of the carrier as shown in the figure, and install the CPU onto the heatsink.



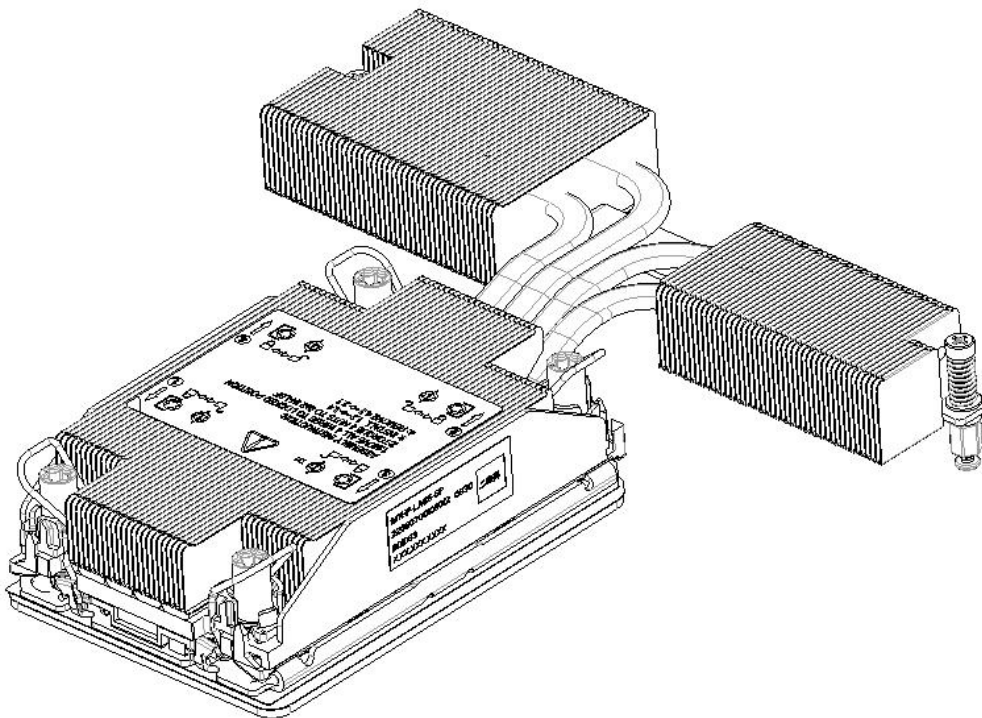
Installation of heatsink

- Step 1: Remove the protective cover from the CPU socket on the motherboard.

● Step 2: Install the CPU and heatsink assembly into the CPU socket as shown in the figure below.



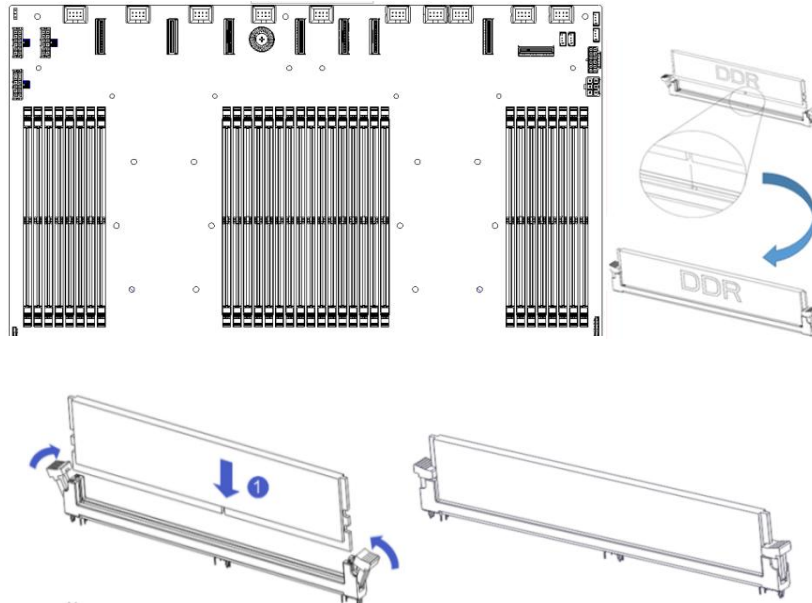
● Step 3: Press down the retention locks at the four corners of the heatsink, then turn each heatsink retention screw clockwise twice to secure the heatsink to the motherboard.



Note: The pins on the motherboard are extremely fragile and can be easily damaged. To avoid damaging the motherboard, do not touch the processor or the contacts in the processor socket.

The 16 memory slots controlled by CPU0 are: CPU0 DIMMB0/B1, DIMMA0/A1, DIMMD0/D1, DIMMC0/C1, DIMMG1/G0, DIMMH1/H0, DIMME1/E0, and DIMMF1/F0. The 16 memory slots controlled by CPU1 are: CPU1 DIMMB0/B1, DIMMA0/A1, DIMMD0/D1,

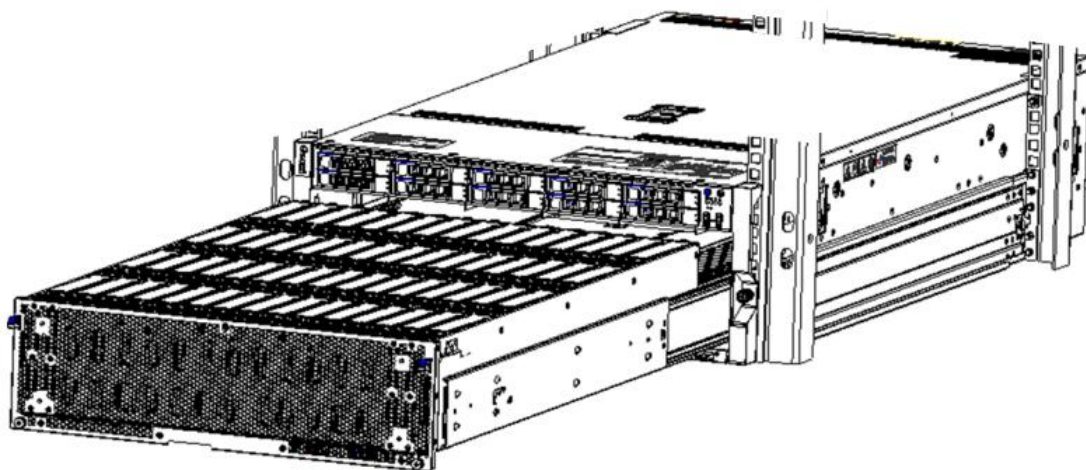
DIMMC0/C1, DIMMG1/G0, DIMMH1/H0, DIMME1/E0, and DIMMF1/F0. Make sure the notch on each memory module is aligned with the notch on the corresponding DIMM slot, and press each DIMM module straight down until it is fully seated to ensure proper installation.

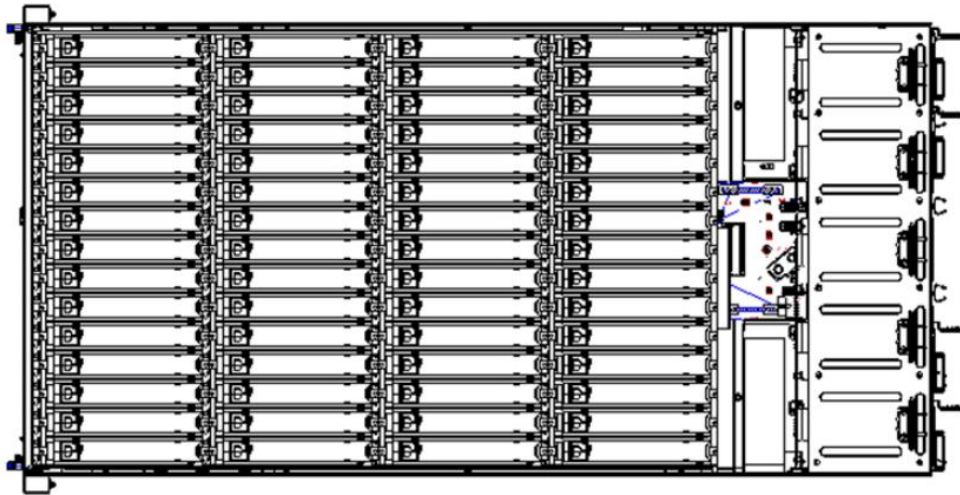


Note: Use memory modules with the same CAS latency on this motherboard. For optimal compatibility, it is recommended to use memory modules from the same manufacturer with the same capacity and frequency.

Installation of Internal Drives

- Open the lower drive tray and install the 3.5" drives in sequence.



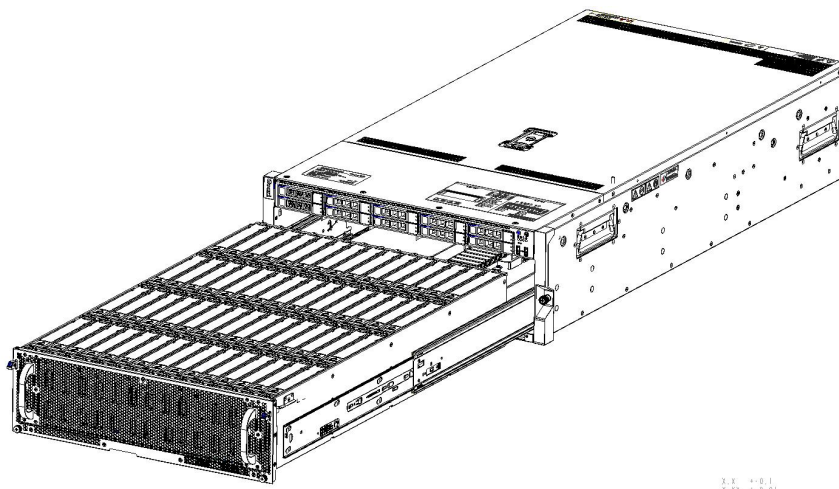


Server slide rail installation

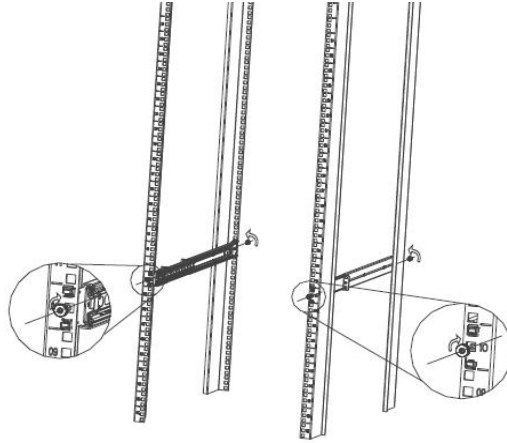
- Step 1: Prepare two slide rails and pull out the inner rail.



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

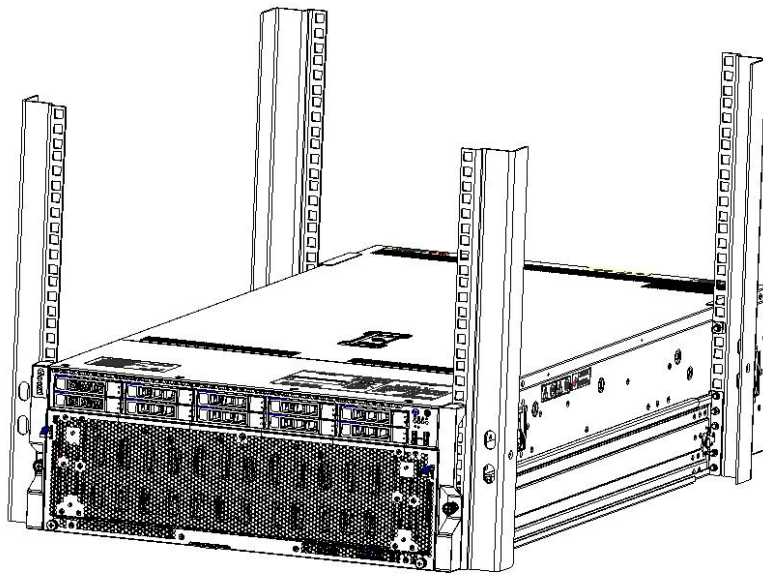


- Step 3: Install the outer rails on the cabinet brackets and secure the screws.



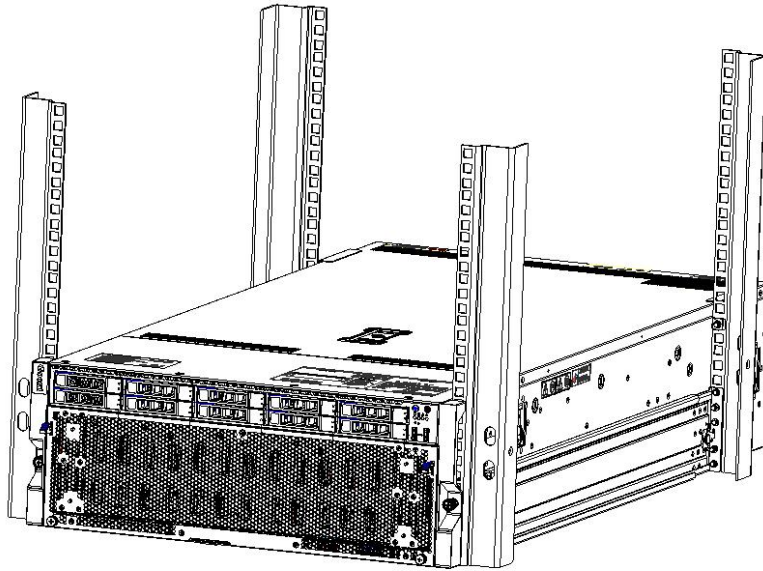
 Note: When installing the guide rail, align it with the U-mark, and push it into place until you hear a click sound. Secure it firmly using M5 screws.

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



 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.

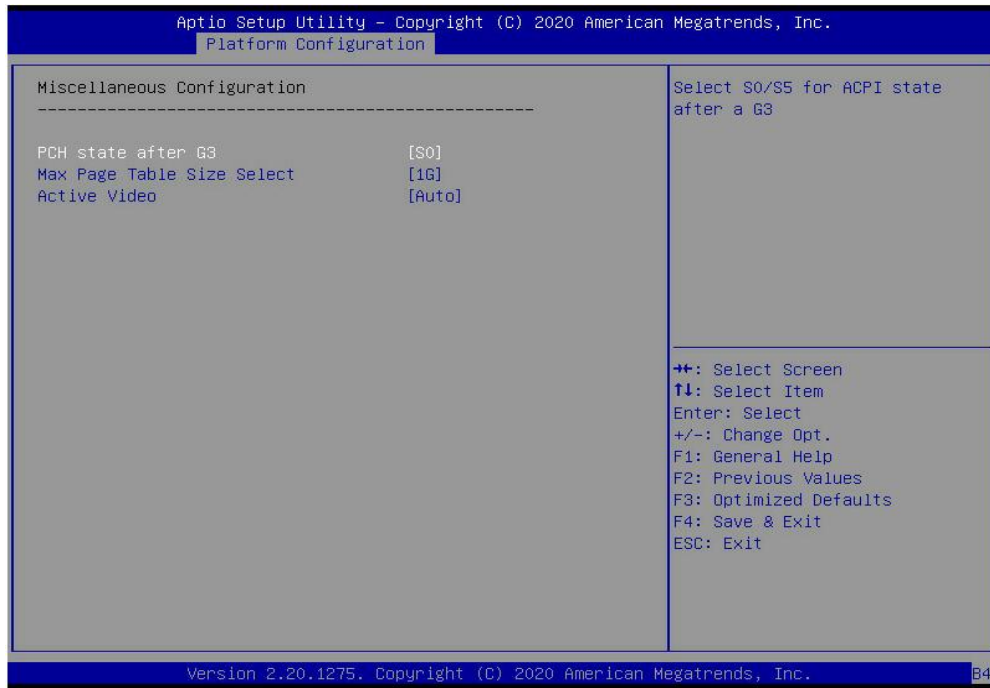


Note: During equipment maintenance, it is necessary to loosen the panel screws and pull the chassis lightly. Do not push or pull the chassis at random speed to avoid damage to the equipment.

4. Configuration Instructions

4.1 Initial Configuration

- 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:



- PCH 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
leave power state unchanged
Default: S0
- 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.

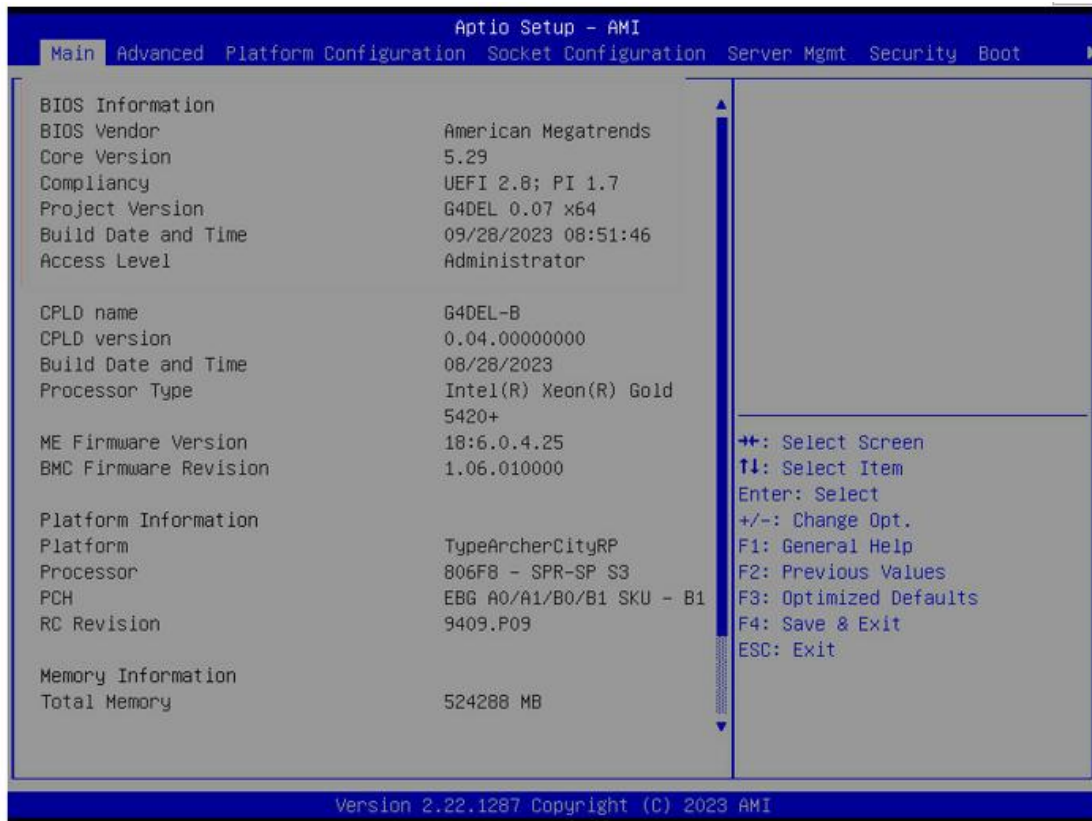


For detailed usage of BMC and BIOS, please refer to the corresponding user manual.

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

- 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:



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

- Configure BMC

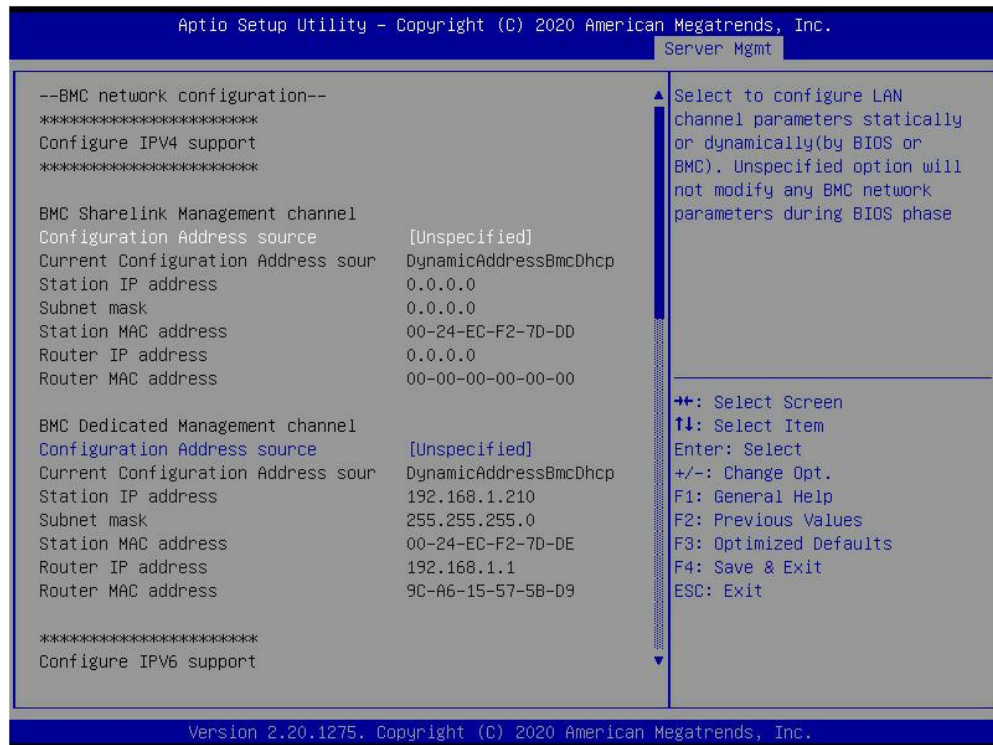
When the server is powered on, make sure that the BMC dedicated management network port cable is properly connected.

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.

Check the BMC IP address as follows:

- After the server is powered on, turn it on. Pay attention to the POST process when starting the server. In the lower left corner of the logo screen, the IP address is displayed.
- After the server powers on, pay attention to the POST process. Press the or <ESC> key on the keyboard to enter the BIOS Setup interface. Switch to the following screen:



Configure IPv4 support:

- BMC sharelink Management Channel
- Configuration Address source
- Configure the BMC IP address allocation mode, the menu options are:
 - Unspecified: Do not change BMC parameters
 - Static: BIOS static IP setting
 - DynamicBmcDhcp: BMC runs DHCP to dynamically assign IP
 - DynamicBmcNonDhcp: BMC runs the Non-DHCP protocol to dynamically assign IP
 - Default: Unspecified

When changing from "Unspecified" to other parameters, saving and rebooting will result in the options reverting to the "Unspecified" value. There is no need to configure the BMC IP during every startup process.

- When the "Configuration Address Source" option is set to "Unspecified," it will display the network parameters (IPv4) for the system's shared Ethernet port. The displayed information includes the current IP configuration method, BMC IP, subnet mask, MAC address, router IP, and router MAC.
- BMC Dedicated Management Channel
- Configuration Address source
- Configure the BMC IP address allocation mode, the menu options are:
 - Unspecified: No change to BMC parameters
 - Static: BIOS static IP setting
 - DynamicBmcDhcp: BMC runs DHCP to dynamically assign IP
 - DynamicBmcNonDhcp: BMC runs the Non-DHCP protocol to dynamically assign IP
 - Default: Unspecified
- When changing from "Unspecified" to other parameters, saving and rebooting will result in the options reverting to the "Unspecified" value. There is no need to configure the BMC IP during every startup process.
- When the "Configuration Address Source" option is set to "Unspecified," it will display the network parameters (IPv4) for the system's dedicated Ethernet port. The displayed information includes the current IP configuration method, BMC IP, subnet mask, MAC address, router IP, and router MAC.
- Configure IPV6 support
- BMC Sharelink Management Channel
- IPV6 Support
- Choose whether to support IPV6, the menu options are:
 - Enabeld: support IPV6
 - Disabled: does not support IPV6
 - Default: Enabeld
- When changing from "Unspecified" to other parameters, saving and rebooting will result in the options reverting to the "Unspecified" value. There is no need to configure the BMC IP during every startup process.
- When the "Configuration Address Source" option is set to "Unspecified," it will display the network parameters (IPv6) for the system's shared Ethernet port.
- IPV6 Support
- Choose whether to support IPV6, the menu options are:
 - Enabeld: support IPV6

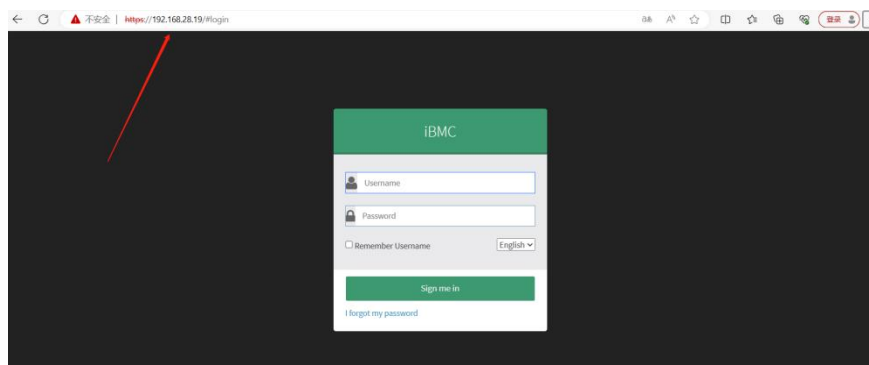
Disabled: does not support IPV6

Default: Enabeld

- When changing from "Unspecified" to other parameters, saving and rebooting will result in the options reverting to the "Unspecified" value. There is no need to configure the BMC IP during every startup process.
- When the "Configuration Address Source" option is set to "Unspecified," it will display the network parameters (IPv6) for the system's dedicated Ethernet port.

Log in to the BMC management interface

Enter the IP address on the web page, as shown in the figure:



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:

The screenshot displays the Gooxi network configuration page. On the left is a dark sidebar with navigation links: 仪表盘, 传感器, 系统清单, FRU 信息, 日志 & 报告, 设置, 远程控制, 镜像重定向, 维护, and 注销. The main content area is titled '启用 LAN' (Enable LAN) and contains the following settings:

- 启用 LAN**: A checkbox that is checked.
- LAN 界面**: A dropdown menu showing 'bond0'.
- MAC 地址**: A text field containing '00:24:EC:F2:2D:89'.
- 启用 IPv4**: A checked checkbox.
- 启用 IPv4 DHCP**: A checked checkbox.
- IPv4 地址**: A text field containing '192.168.0.13'.
- IPv4 子网掩码**: A text field containing '255.255.254.0'.
- IPv4 默认网关**: A text field containing '192.168.1.1'.
- 启用 IPv6**: A checked checkbox.
- 启用 IPv6 DHCP**: A checked checkbox.
- IPv6 索引**: A dropdown menu showing '0'.
- IPv6 地址**: A text field containing 'fe80::224:ecff:fe2:2d89'.
- 子网掩码前缀长度**: A text field containing '64'.

This page sets the IP address of the BMC management network port.

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.
- In a residential environment, operation of this equipment may cause radio interference

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.