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GREEN Less Heat, Less Power Consumption

STABLE Robust Design, Quality Parts

Stable and
Reliable Solution

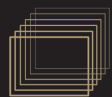
Server/Workstation
Motherboard

4U4G-GNR/HPR



User Manual

English



Version 1.01

Published Aug. 2026

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CALIFORNIA, USA ONLY

The Lithium battery adopted on this server motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.

“Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate”

Setting up the Server in a Restricted Access Location/Restricted Access Area

- Access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.
- Access is through the use of a tool or lock and key, or other means of security, and is controlled by the authority responsible for the location.
- Leave enough clearance (25 inches in the front and 30 inches in the back of the rack) to allow the front door to be opened completely and to allow for sufficient airflow.
- This product is for installation merely in a Restricted Access Location.
- This product is not suitable for use with visual display work place devices according to §2 of the the German Ordinance for Work with Visual Display Units.
- Only skilled person and Instructed person can remove the chassis covers to access the inside of the system.

ASRock Rack's Website: www.ASRockRack.com

Replaceable Batteries

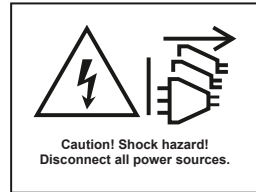
CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS**

Warning

When removal of the chassis lid required for servicing:

- Turn off power and unplug any power cords/cables, and
- Reinstall the chassis lid before restoring power.



Important Safety Instructions

Pay close attention to the following safety instructions before performing any of the operation. Basic safety precautions should be followed to protect yourself from harm and the product from damage:

- Operation of the product should be carried out by suitably trained, qualified, and certified personnel only to avoid risk of injury from electrical shock or energy hazard.
- Disconnect the power cord from the wall outlet when installing or removing main system components, such as the server motherboard and power supply unit.
- Place the system on a stable and flat surface.
- Use extreme caution when working with high-voltage components.
- When handling parts, use a grounded wrist strap designed to prevent static discharge.
- Keep the area around the system clean and clutter-free.
- Keep all components and printed circuit boards (PCBs) in their antistatic bags when not in use.
- Handle a board by its edges only; do not touch its components, peripheral chips, memory modules or contacts.
- The power cord must be connected to a socket or outlet with a ground connection.

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Chapter 1 Introduction

Thank you for purchasing 4U4G-GNR/HPR, a reliable barebone system produced under ASRock Rack's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock Rack's commitment to quality and endurance.

This guide provides the instructions of insertion and extraction of chassis components, such as chassis covers, system fans, power supplies, drive trays, and other main components this system supports. If the system is pre-installed a server motherboard, refer to the server motherboard user manual for the information of the server motherboard components, specifications and BIOS settings.

System	ASRock Rack Server Motherboard
4U4G-GNR/HPR	GNRD8-2L2T



Because the hardware specifications might be updated, the content of this documentation will be subject to change without notice.



The illustrations shown in this manual are for reference purposes only and may not exactly match the model purchased.



If requiring technical support related to this system, please visit the website for specific information about the using model.
<https://www.asrockrack.com/support/>

1.1 Shipping Box Contents

Items	Quantity
Server Barebone: 4U4G-GNR/HPR	1
CPU Heatsink	1
Rail Kit	1
Accessory Box	1
- 3 Power Cords	
- 1 Quick Installation Guide	
- 2 Screws for M.2 Sockets	



If any items are missing or appear damaged, contact the authorized dealer.

1.2 Specifications

4U4G-GNR/HPR	
System	
Form Factor	4U Rackmount
Dimension	710 x 430.4 x 174.8 mm (27.9" x 16.9" x 6.9" with GPU fans; 596 mm (23.5") in depth without GPU fans)
Support Motherboard	GNRD8-2L2T
Front Panel	
Button	Power button w/ LED, ID button w/ LED, Reset button, NMI button
LED	LAN activity LED, HDD activity LED, System event LED
I/O Port	2 Type-A (USB 3.2 Gen1)
Drive Bay / Storage	
Internal Side	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor Includes cage for 2 fixed 2.5" drives
Power Supply	
Type	2+1 CRPS
Output Watt	1000W @ 100-127Vac input 2700W @ 200-240Vac input
Efficiency	80-PLUS Titanium
AC Input	Low-line* : 100-127Vac, 60/50Hz High-line : 200-240Vac, 60/50Hz *Full redundancy may not be supported with low-line input. Redundancy support depends on total system power consumption relative to single PSU capacity.
System Fan	
Fan	4 PWM fixed 80x80 mm fans Rear: 2 PWM fixed 80x80 mm fans
Processor System	
CPU	Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Socket	Single Socket E2 (LGA 4710)

System Memory	
Supported DIMM Quantity	8 DIMM slots (1DPC)
Supported Type	DDR5 RDIMM DDR5 RDIMM-3DS DDR5 MRDIMM
Max. Capacity per DIMM	RDIMM: 128GB RDIMM-3DS: 256GB MRDIMM: 64GB
Max. DIMM Frequency	RDIMM: 6400MHz RDIMM-3DS: 6400MHz MRDIMM: 8000MHz
Voltage	1.1V
PCIe Expansion Slot	
PCIe x16	Up to 4 dual-slot or 7 single-slot* FHFL PCIe5.0 x16 *SLOT7, 4, 2 only function with selected processors
PCIe x8	1 FHFL single-slot PCIe5.0 x8
TPM	
TPM Support	TPM-SPI
Ethernet	
Additional Ethernet Controller	2 RJ45 (10 GbE) by Intel® X710-AT2 2 RJ45 (1 GbE) by Intel® i210
Server Management	
BMC Controller	ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
Dedicated IPMI LAN	1 RJ45 Dedicated IPMI LAN port by Realtek RTL8211F
Graphics	
Controller	ASPEED AST2600

Rear I/O	
UID button/ LED	1 ID button w/ LED
Video Port	1 DB15 (VGA)
USB Port	2 Type-A (USB 3.2 Gen1)
RJ45	2 RJ45 (10 GbE) 2 RJ45 (1 GbE) 1 Dedicated IPMI
System BIOS	
BIOS Type	AMI UEFI BIOS; 512Mb SPI Flash ROM
BIOS Feature	Plug and Play, ACPI 4.0 (and above) compliance wake-up events, SMBIOS 3.4 and above, ASRock Rack Instant Flash
Hardware Monitor	
Temperature	CPU, MB, Card side, M.2, RAM, TR temperature sensing
Fan	Fan tachometer CPU quiet fan: automatic chassis fan speed control by CPU temperature Fan multi-speed control
Voltage	1.8V_PCH, +BAT, PVNN_PCH, 3.3V, 5V, 12V, 3.3VSB, 5VSB, +12VSB
Environment	
Temperature	Operating temperature: 10°C ~ 30°C Non-operating temperature: -40°C ~ 70°C
Humidity	Non-operating humidity: 20% ~ 90% (non-condensing)

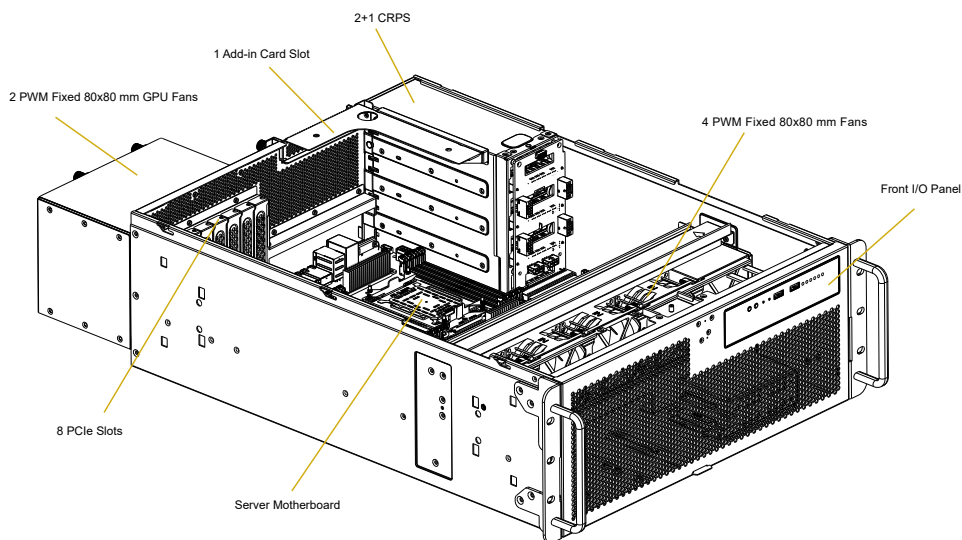


The functions are supported depending on the type of the server motherboard. Refer to the server motherboard user manual for detailed information.

Chapter 2 Server System Overview

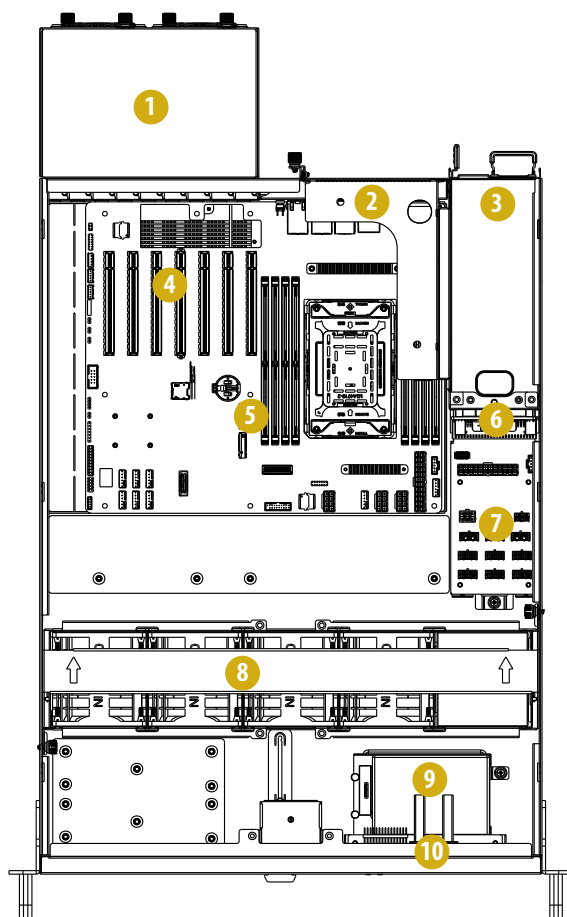
This chapter provides diagrams showing the location of important components of the server system.

2.1 System Components



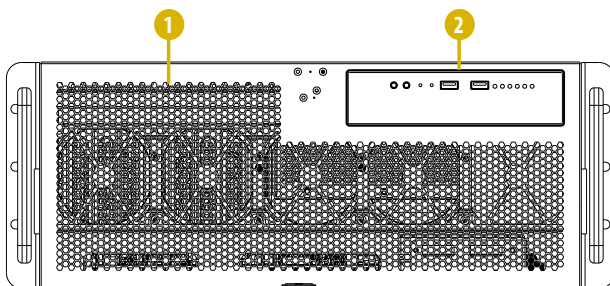
Note: The illustrations in this user manual are for references only. The actual product may be slightly different by SKU.

2.2 Internal Features



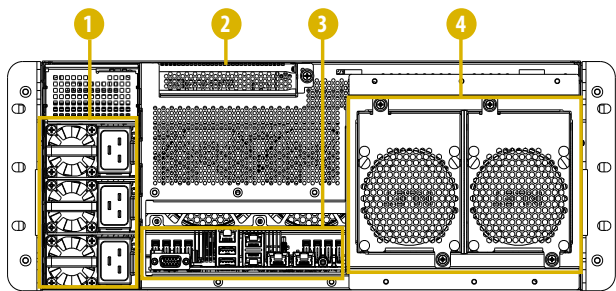
No.	Description
1	2 PWM fixed 80x80mm GPU fans
2	1 FHFL single-slot PCIe5.0 x8 slot
3	2+1 CRPS
4	Up to 4 dual-slot or 7 single-slot* FHFL PCIe5.0 x16 *SLOT7, 4, 2 only function with selected processors
5	Server motherboard (MB)
6	Power distribution board (PDB)
7	Interposer board (IPB)
8	4 PWM fixed 80x80mm fans (left-to-right: FAN1 ~ FAN4)
9	Cage for 2 fixed 2.5" drives
10	Front I/O panel

2.3 System Front Panel



No.	Description
1	Front vent
2	Front I/O panel

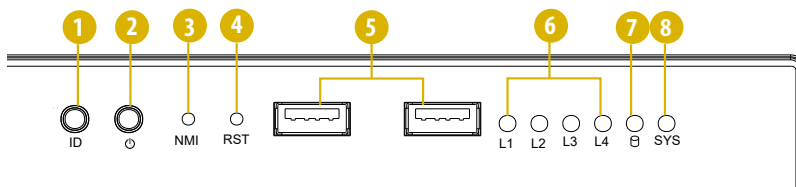
2.4 System Rear Panel



No.	Description
1	2+1 CRPS
2	1 FHFL single-slot PCIe5.0 x8 slot
3	Rear I/O panel (depends on the specification of the server motherboard)
4	2 PWM fixed 80x80mm GPU fans Internal: Up to 4 dual-slot or 7 single-slot* FHFL PCIe5.0 x16 *SLOT7, 4, 2 only function with selected processors

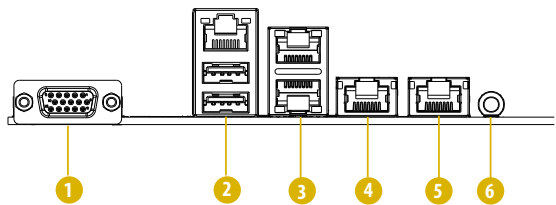
2.5 I/O Panel

Front I/O Panel



No.	Description
1	1 ID button w/ LED
2	1 Power button w/ LED
3	1 NMI button
4	1 System reset button
5	2 Type-A (USB 3.2 Gen1) ports
6	LAN1 ~ LAN4 activity LEDs
7	1 HDD activity LED
8	1 System event LED

Rear I/O Panel



No.	Description
1	1 DB15 (VGA) port
2	Top: 1 Dedicated IPMI LAN port Bottom: 2 Type-A (USB 3.2 Gen1) ports
3	Top: 1 RJ45 (1GbE) LAN port (LAN4) Bottom: 1 RJ45 (1GbE) LAN port (LAN3)
4	1 RJ45 (10GbE) LAN port (LAN1)
5	1 RJ45 (10GbE) LAN port (LAN2)
6	1 ID button w/ LED

ID Button

Press the ID button to toggle the front and rear ID LEDs on and off. Use this button to locate the server working on behind a rack of servers.



1. Press and hold the ID button for 4 seconds, the BMC will trigger an external reset.
2. Press and hold the ID button for 10 seconds, the BMC will reset and load default values.

Power Button

Press the power switch button to toggle the system power on and off modes. To remove all power from the system completely, disconnect the power cord from the server.

NMI (Nonmaskable Interrupt) Button

Press the NMI button with a paper clip or pin to generate a nonmaskable interrupt and to put the server in a halt state for examination.

System Reset Button

When the system is completely unresponsive, press the system reset button to reboot the server without shutting it off and initialize the system.

Status LED Definitions

ID LED	
Status	Description
Off	System identification is disabled.
Blue	System identification is active.

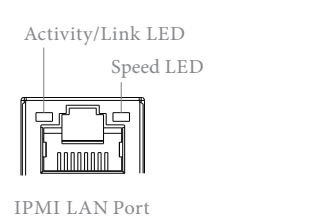
Power LED	
Status	Description
Off	Power off
Green	Power on

LAN1 ~ LAN4 Activity LEDs	
Status	Description
Green	Link between system and network or no access
Blinking Green	Network access

Hard Drive Activity LED	
Status	Description
Off	Hard drive idle
Blinking Green	Hard drive access

System Event LED	
Status	Description
Off	Running or normal operation
Red	At least one sensor has critical alert.

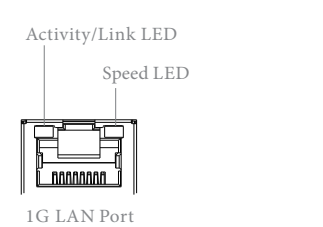
Rear Dedicated IPMI LAN Port



Activity/Link LED	
Status	Description
Off	No link
Blinking Yellow	Data activity
On	Link

Speed LED	
Status	Description
Off	10Mbps connection or no link
Orange	100Mbps connection
Green	1Gbps connection

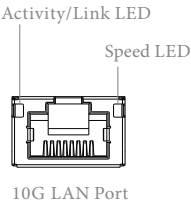
Rear RJ45 (1GbE) LAN Port



Activity/Link LED	
Status	Description
Off	No link
Blinking Yellow	Data activity
On	Link

Speed LED	
Status	Description
Off	10Mbps connection or no link
Orange	100Mbps connection
Green	1Gbps connection

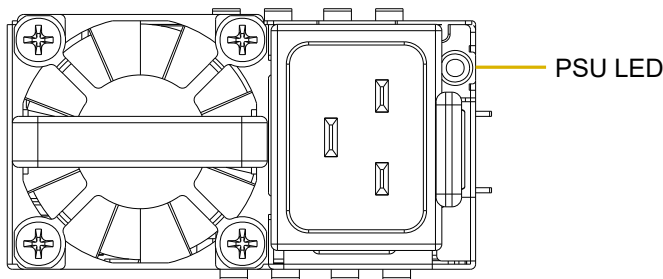
Rear RJ45 (10GbE) LAN Port



Activity/Link LED	
Status	Description
Off	No link
Blinking Yellow	Data activity
On	Link

Speed LED	
Status	Description
Off	100Mbps connection or no link
Orange	1Gbps connection
Green	10Gbps connection

2.6 PSU LED



PSU Status LED	
Status	Description
Green	Normal work; output ON and OK
Blinking Green at 0.5Hz	AC Present Only 12VSB on (PS off) or PSU in Smart Redundant state
Amber	Module fault/protection in operating mode (failure, OCP, OVP, Fan Fail, OTP, UVP) AC cord unplugged
Blinking Amber at 0.5Hz	Warning (high temp, high power, high current, slow fan)

Chapter 3 Hardware Installation and Maintenance

This chapter helps user to assemble the chassis and install components.

Before You Begin

Before working with the server, pay close attention to the “Important Safety Instructions” at the beginning of this manual.



1. Ensure the motherboard battery is installed before unplugging the power cord or installing/removing the motherboard.
2. Before installing or removing any component, ensure that the power supply is off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

1. Make sure the server is powered off.

Power down the server if it is still running.

- (1) Press the Power button to power off the server from full-power mode to standby-power (sleep) mode. The Power LED at the front turns from solid green to blinking green.
- (2) Disconnect the power cord first from the AC outlet and then from the server.
The power LED turns off.



The server is not completely powered down when pressing the Power button on the front panel. The Power button lets the server toggle between Power On and Standby (Sleep) modes. Some internal circuitry remain active in the Standby mode. To remove all power from the system completely, be sure to disconnect the power cord from the server.

2. Ensure having a clean and stable working environment. Avoid dust and dirt because contaminants may cause malfunctions.
3. Ground properly before touching any system component. A discharge of static electricity may damage components. Wear a grounded wrist strap if available.



1. Some components are already pre-installed. Simply properly connect the relevant cables before or after installation.
2. Refer to the server motherboard user manual for instructions on how to install server motherboard components.

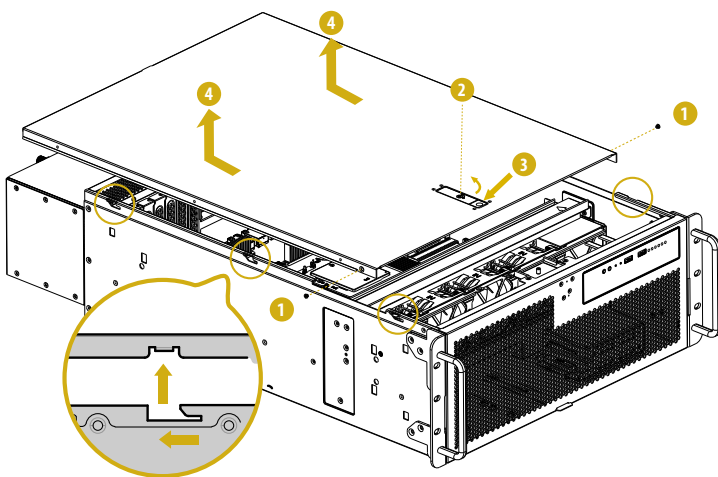
3.1 Server Top Cover

Removing the Server Top Cover



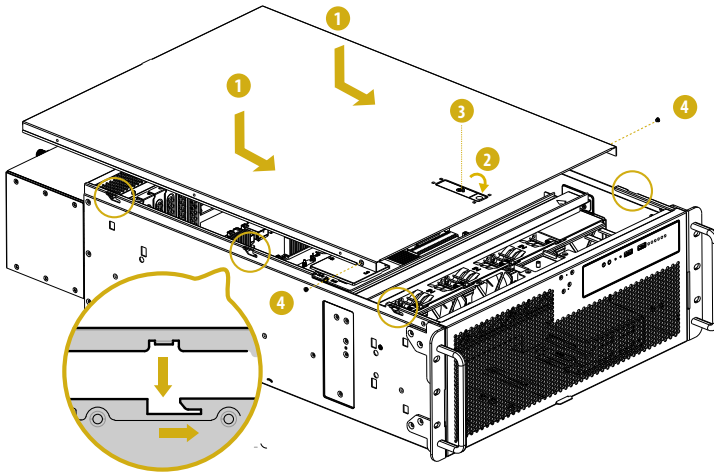
1. Before removing the top cover, power off the server and unplug the power cord.
2. The system must be operated with the chassis top cover installed to ensure proper cooling.

1. Remove the screws securing the top cover to the chassis.
2. Unlock the mortise lock.
3. Press the cover latch button.
4. Push the top cover toward the REAR of the chassis to release the cover from the locked position. Lift up and remove the top cover.



Installing the Server Top Cover

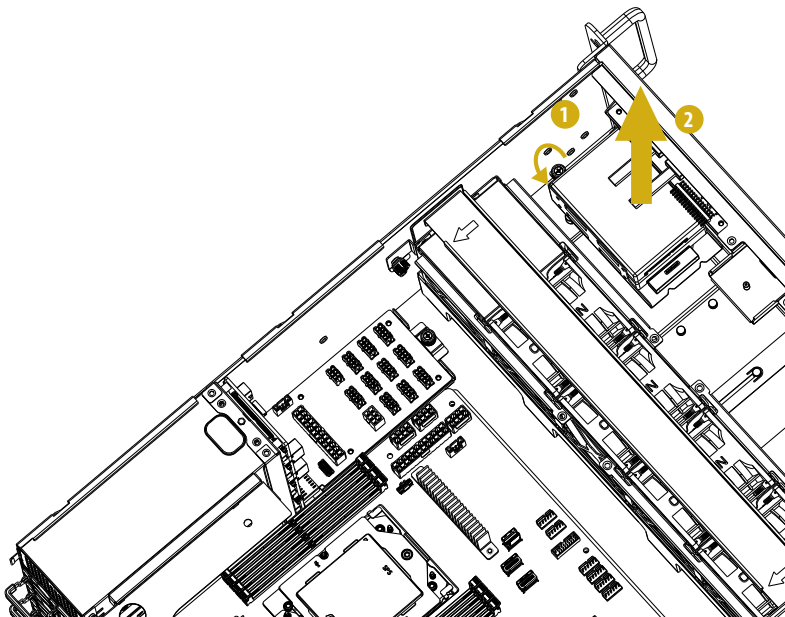
1. Lower the top cover on the chassis, making sure the side latches align with the cutouts. Slide the top cover toward the FRONT of the chassis.
2. Press down the latch.
3. Lock the mortise lock.
4. Secure the top cover in place with screws.



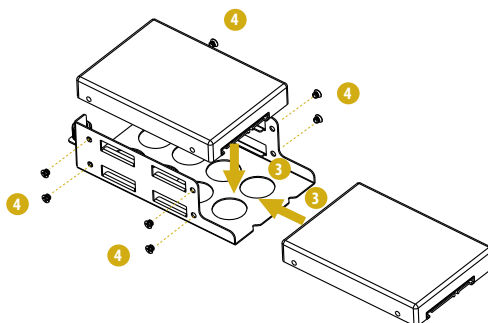
3.2 Drive

Installing the 2.5" Drives to the Chassis

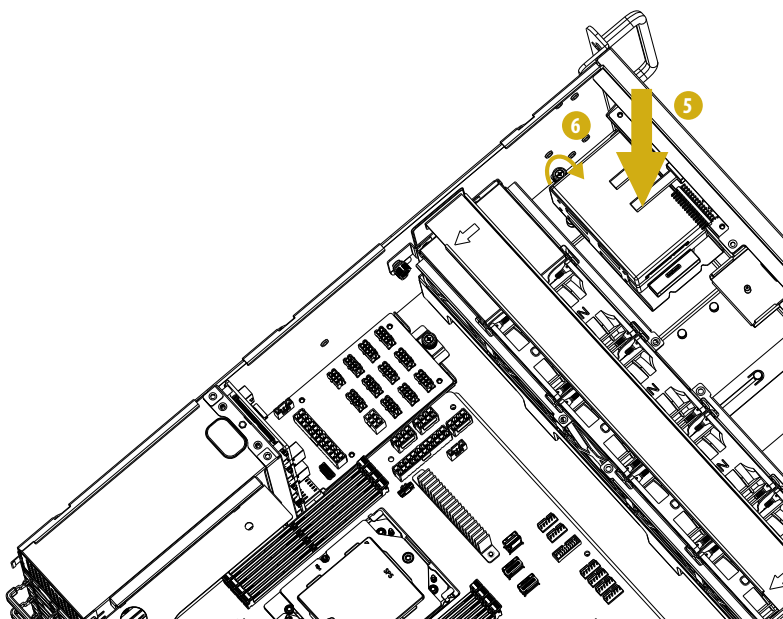
1. Hand-release the thumbscrew securing the drive cage.
2. Remove the drive cage from the chassis.



3. Install the 2.5" drives into the cage.
4. Tighten the screws to secure the drives to the cage.



5. Place the drive assembly into the chassis.
6. Hand-tighten the thumbscrew to secure it to the chassis.



3.3 Power Supply

The system can accommodate 3 power supply units in the bay at the rear of the chassis. 2 PSUs are required for full load operation, with the third PSU purely as a redundant, load-sharing backup. 1 PSU can be removed without affecting system operation.

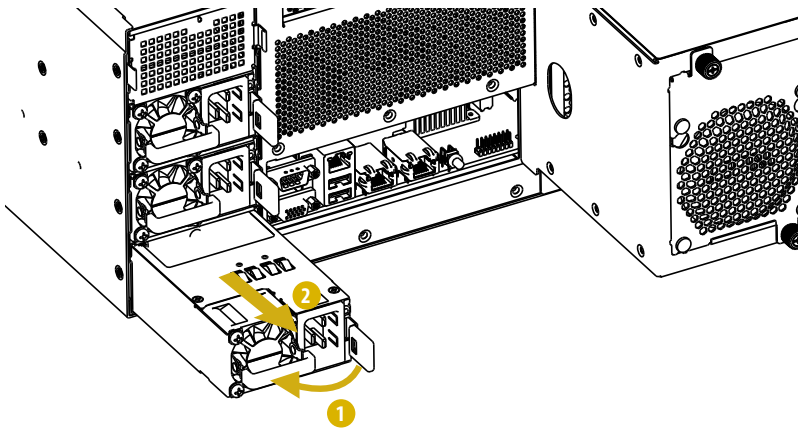
Removing the Power Supply Unit



1. Before replacing the power supply unit, power off the server, unplug the power cord, and disconnect all wiring from the power supply.
2. The redundant system does not require powering down the server.

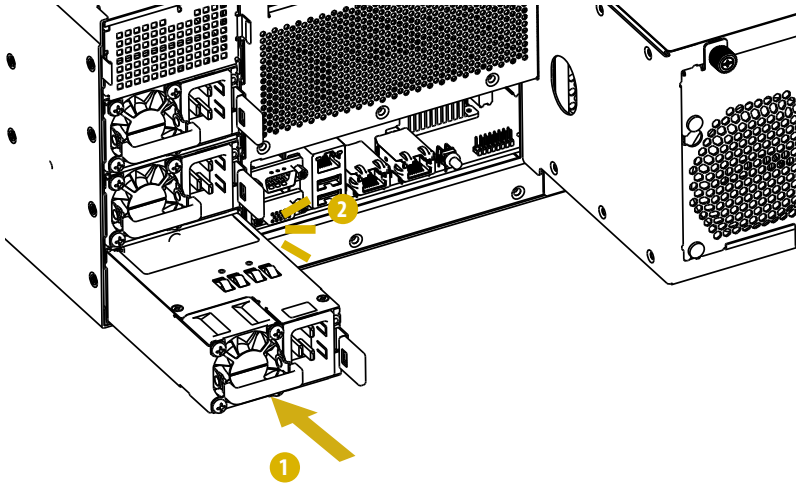
To remove a failed power supply unit, identify the failed PSU by checking the PSU LEDs on the PSUs.

1. Hold onto the power supply handle while pressing the locking lever.
2. Pull to remove the PSU from the chassis.



Installing the Power Supply Unit

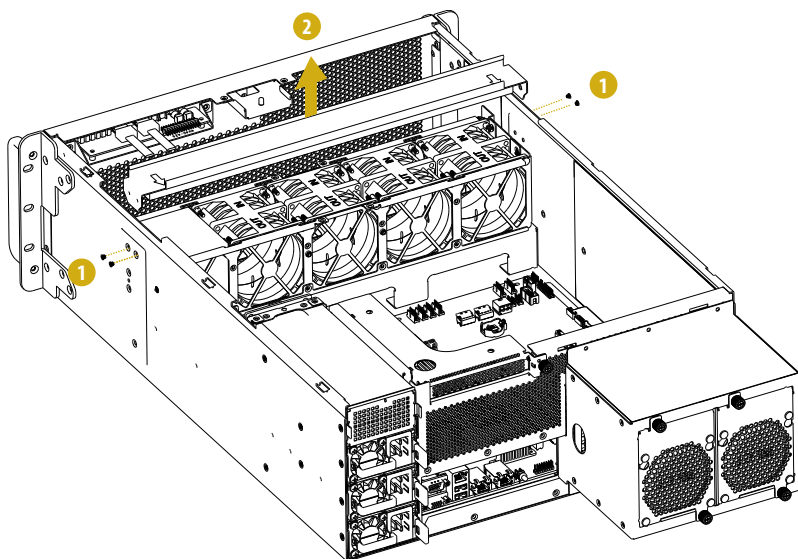
1. Align the power supply unit with the power supply bay.
2. Carefully slide the PSU all the way into the power supply bay until it clicks in place.



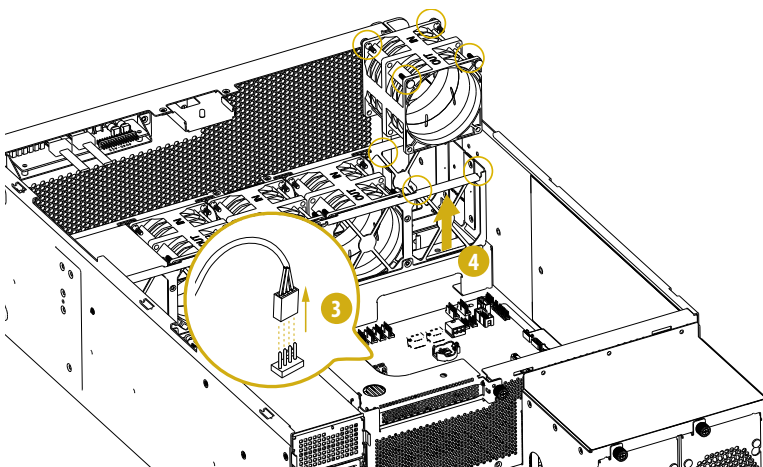
3.4 System Fan

Replacing the Middle Fan

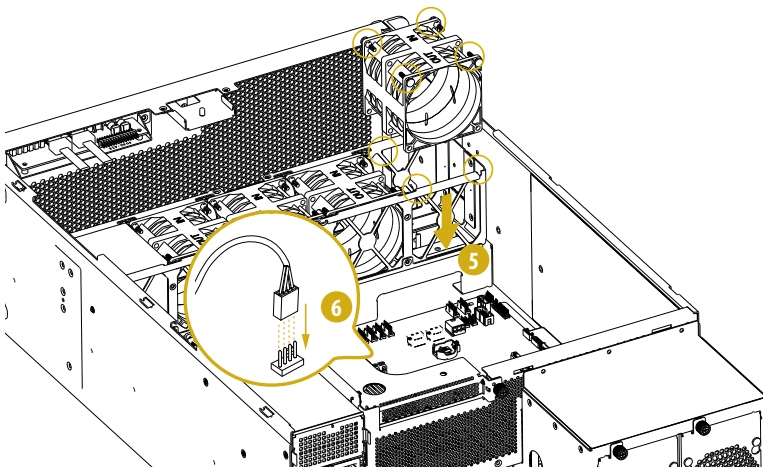
1. Remove the screws securing the fan-retention bracket to the fan cage.
2. Remove the fan-retention bracket from the chassis.



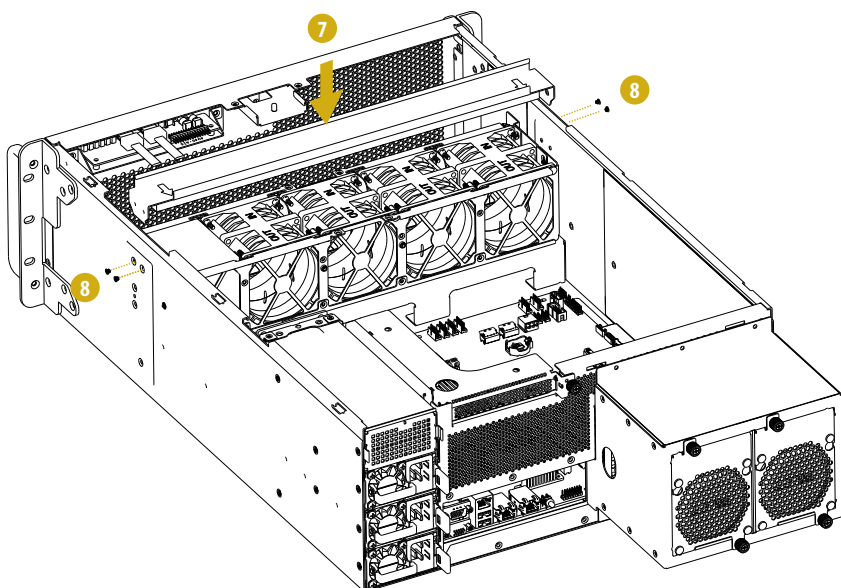
3. Unplug the fan connector.
4. Remove the failed fan.



5. Align the mounting holes on the fan bar with the fan mounts on the replacement fan corners. Be aware that the fan cable on the replacement fan faces toward the rear side of the chassis. Gently place the fan on the fan cage. Make sure the fan is well seated.
6. Connect the end of the fan cable to the fan connector.

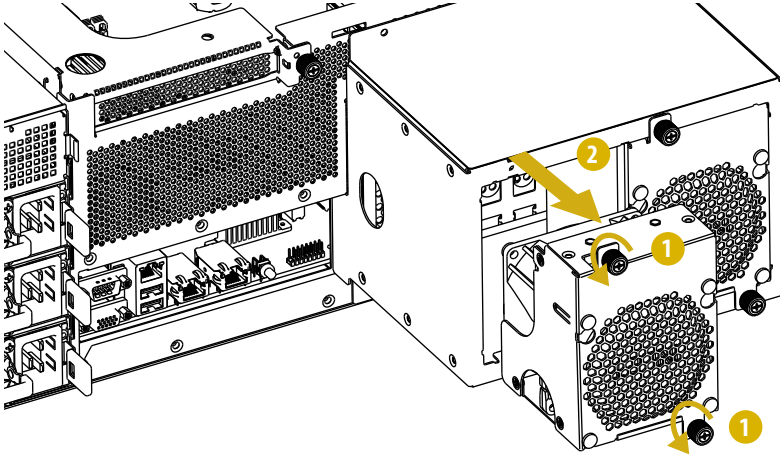


7. Place the fan-retention bracket back on the fan cage.
8. Tighten the screws to secure it to the chassis.



Replacing the GPU Fan

1. Hand-release the thumbscrews securing the GPU fan to the fan cage.
2. Remove the fan from the chassis.
3. Place the new fan to the fan cage.
4. Hand-tighten the thumbscrews to secure the fan to the fan cage.



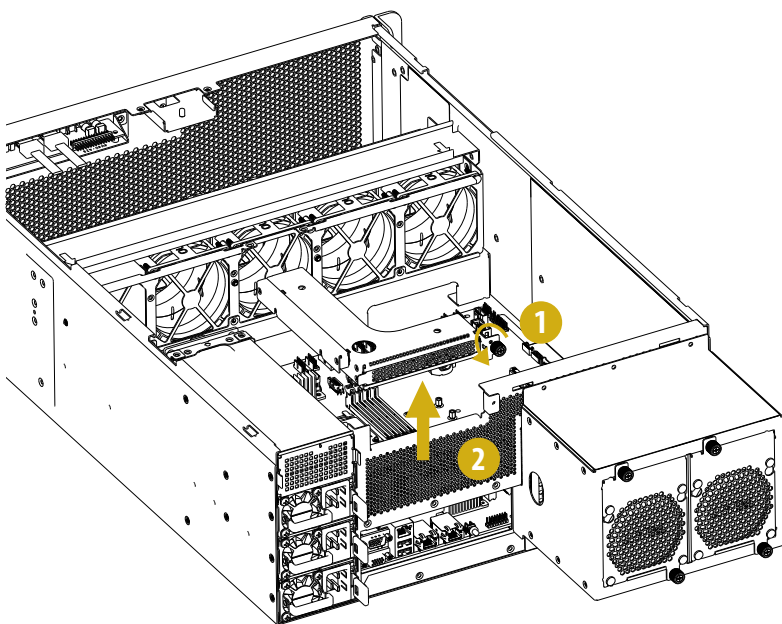
3.5 Add-in Card



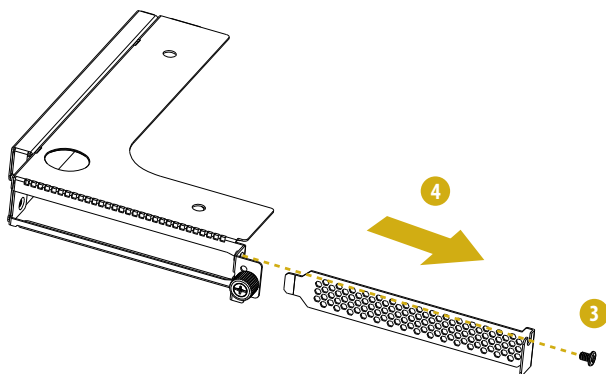
Before installing the add-in card, power off the server and unplug the power cord.

Installing the Add-in Card

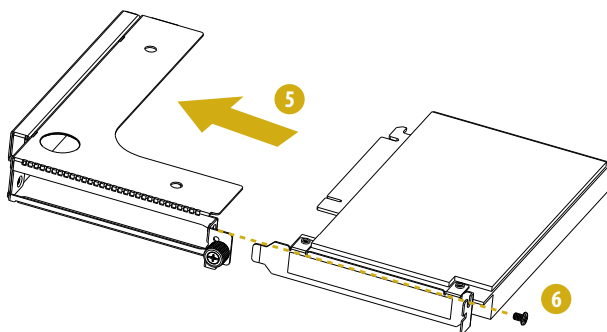
1. Hand-release the thumbscrew securing the bracket to the chassis.
2. Lift up the bracket.



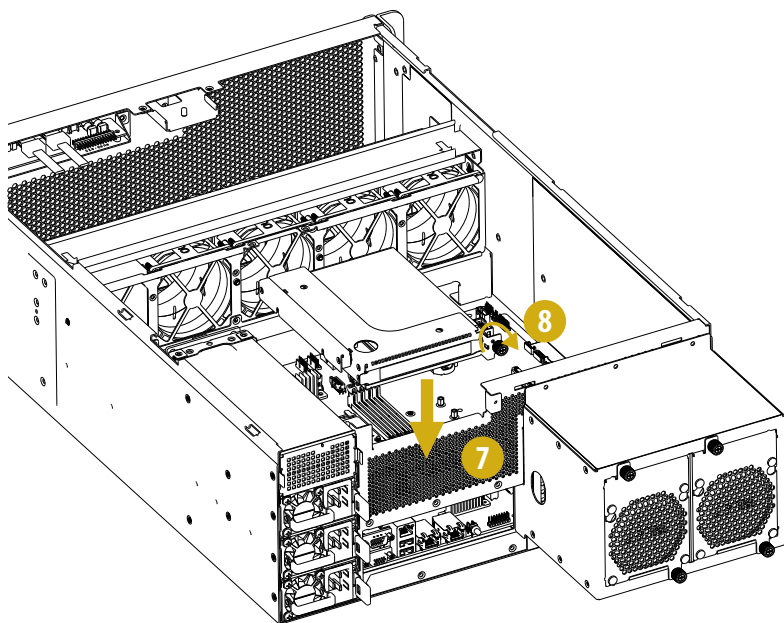
3. Remove the screw securing the blanking plate to the bracket.
4. Slide the blanking plate out sideways.



5. Install the add-in card to the bracket.
6. Secure the add-in card to the bracket with the screw.



7. Align the add-in card assembly with the opening of the chassis and put it in place.
8. Hand-tighten the thumbscrew to secure the assembly to the chassis.

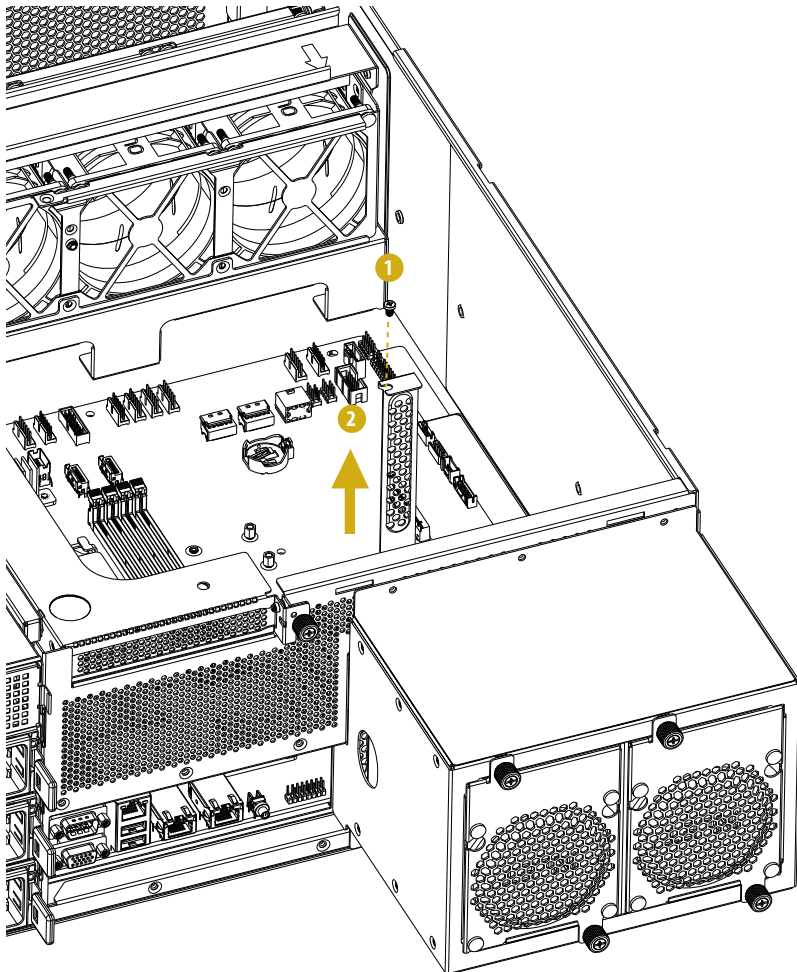


3.6 GPU Card

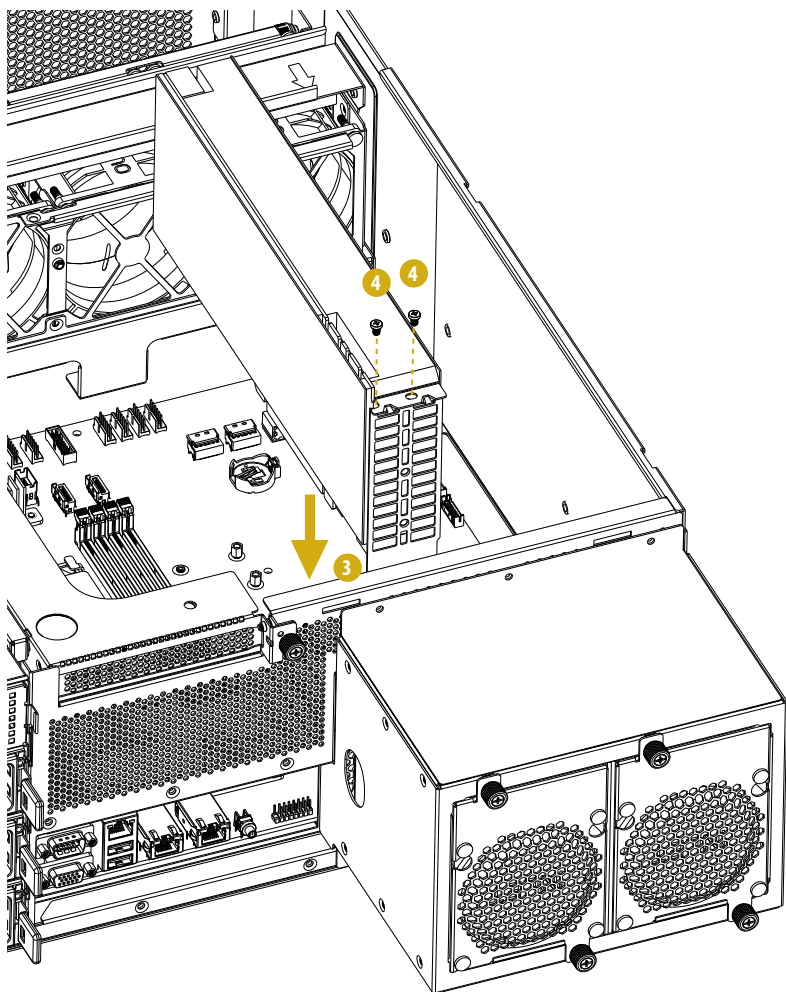
Installing the GPU Card

1. Remove the screw securing the blanking plate to the chassis.
2. Remove the blanking plate.

Note: Remove two screws and two blanking plates when installing a double-width GPU card.



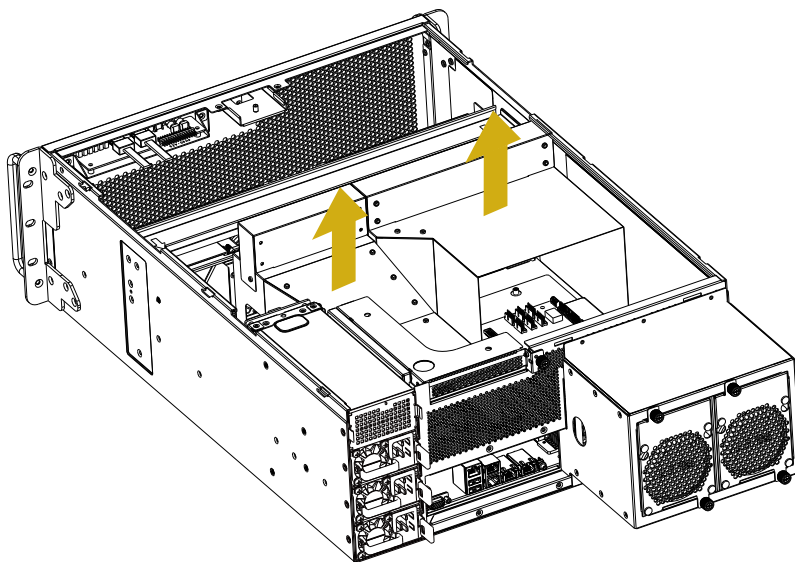
3. Install a GPU card into the slot.
4. Tighten the screws to secure the card to the chassis.



3.7 Air Duct

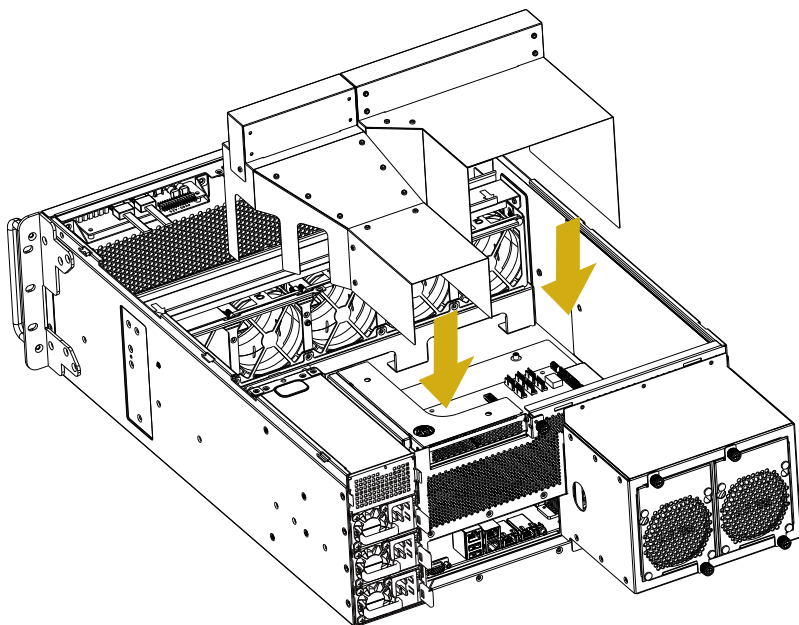
Removing the Air Duct

Lift up and remove the air duct.



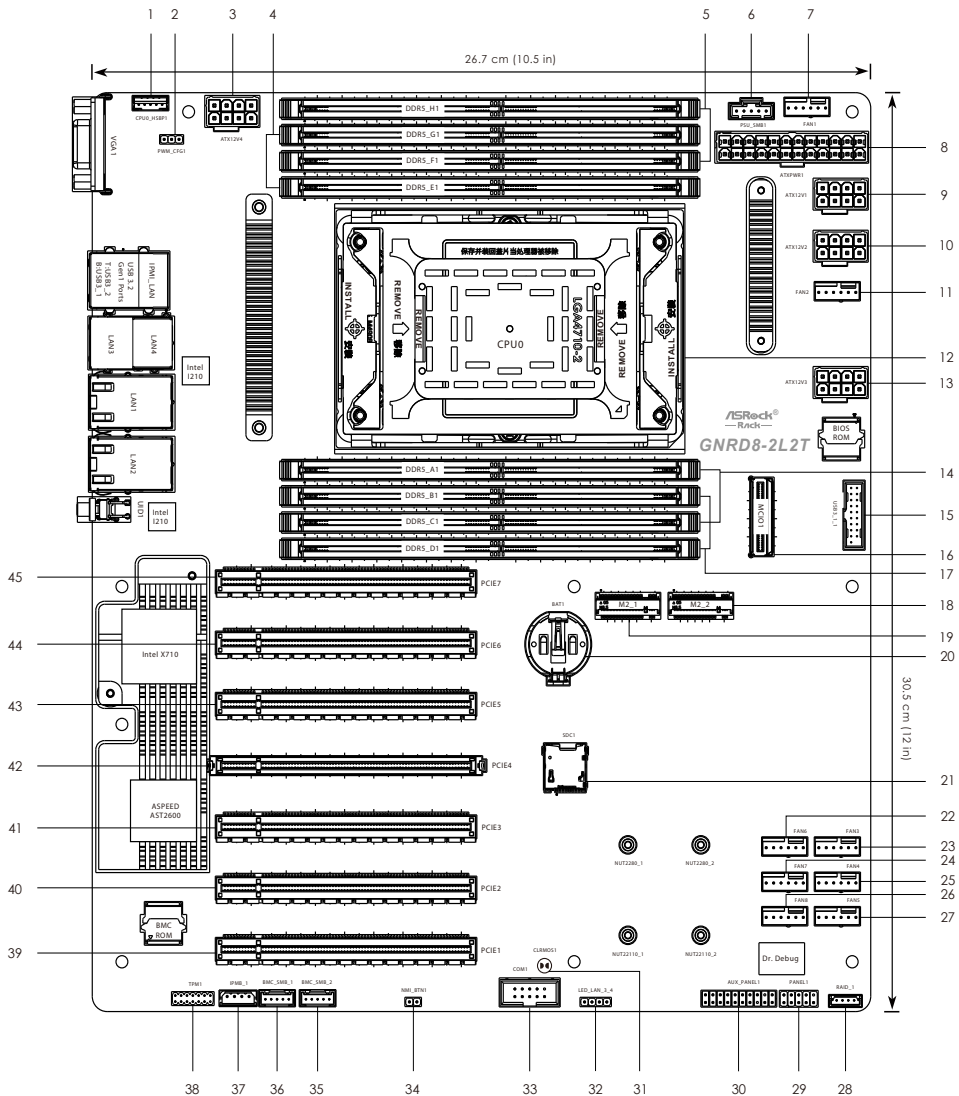
Installing the Air Duct

Align the air duct with the CPU and the GPU cards. Place the air duct into the server system.



Chapter 4 Server Motherboard (GNRD8-2L2T)

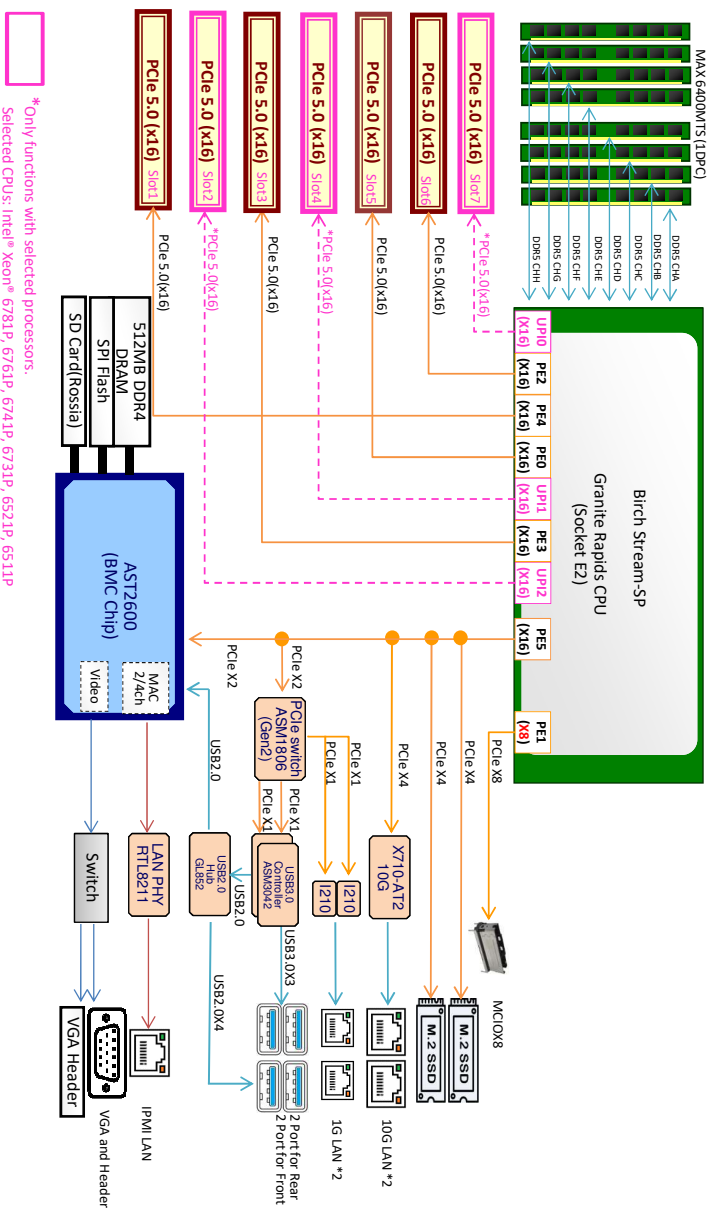
4.1 Layout



No.	Description
1	Backplane PCI Express Hot-Plug Connector (CPU0_HSBP1)
2	PWM Configuration Header (PWM_CFG1)
3	ATX 12V Power Connector (ATX12V4)
4	2 DDR5 DIMM Slots (DDR5_E1, DDR5_G1)
5	2 DDR5 DIMM Slots (DDR5_F1, DDR5_H1)
6	PSU SMBus (PSU_SMB1)
7	System Fan Connector (FAN1)
8	ATX Power Connector (ATXPWR1)
9	ATX 12V Power Connector (ATX12V1)
10	ATX 12V Power Connector (ATX12V2)
11	System Fan Connector (FAN2)
12	Socket E2 (LGA4710) (CPU0)
13	ATX 12V Power Connector (ATX12V3)
14	2 DDR5 DIMM Slots (DDR5_A1, DDR5_C1)
15	USB 3.2 Gen1 Header (USB3_1_1)
16	Mini Cool Edge IO Connector (MCIO1)
17	2 DDR5 DIMM Slots (DDR5_B1, DDR5_D1)
18	M.2 Socket (M2_2) (Type 2280 / 22110)
19	M.2 Socket (M2_1) (Type 2280 / 22110)
20	Battery
21	MicroSD Card Slot (SDC1)
22	System Fan Connector (FAN6)
23	System Fan Connector (FAN3)
24	System Fan Connector (FAN7)
25	System Fan Connector (FAN4)
26	System Fan Connector (FAN8)
27	System Fan Connector (FAN5)
28	Virtual RAID On CPU Header (RAID_1)
29	System Panel Header (PANEL1)
30	Auxiliary Panel Header (AUX_PANEL1)
31	Clear CMOS Pad (CLRMO1)
32	Front LAN LED Connector (LED_LAN_3_4)
33	COM Port Header (COM1)
34	Non Maskable Interrupt Button (NMI_BTN1)

No.	Description
35	BMC SMBus Header (BMC_SMB_2)
36	BMC SMBus Header (BMC_SMB_1)
37	Intelligent Platform Management Bus Header (IPMB_1)
38	SPI TPM Header (TPM1)
39	PCI Express 5.0/CXL1.1 x16 Slot (PCIE1)
40	PCI Express 5.0/CXL1.1 x16 Slot (PCIE2)
41	PCI Express 5.0/CXL1.1 x16 Slot (PCIE3)
42	PCI Express 5.0/CXL1.1 x16 Slot (PCIE4)
43	PCI Express 5.0/CXL1.1 x16 Slot (PCIE5)
44	PCI Express 5.0/CXL1.1 x16 Slot (PCIE6)
45	PCI Express 5.0/CXL1.1 x16 Slot (PCIE7)

4.2 Block Diagram



4.3 Installing the CPU and Heatsink (LGA 4710 Socket)

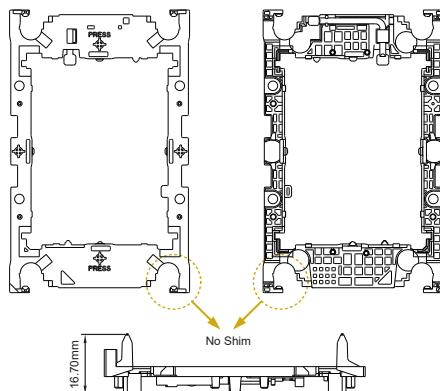


1. Unplug all power cables before installing the CPU.
2. Illustration in this documentation are examples only.

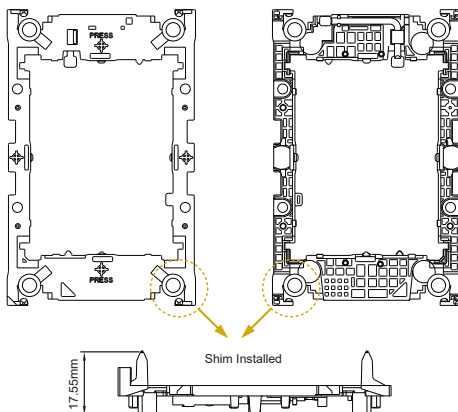
Carrier Used

Carrier Type	Xeon® SP XCC	Xeon® SP HCC/LCC/HDCC
Carrier Code	E2A	E2B
Shim	No	Yes
Carrier Height	16.70mm	17.55mm

XCC Carrier



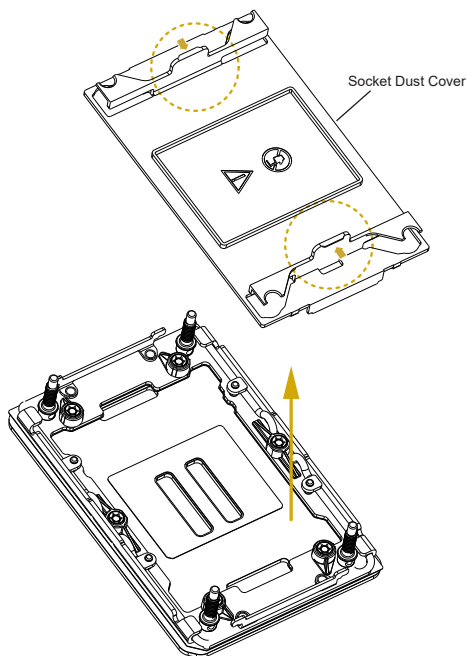
HCC/LCC/HDCC Carrier





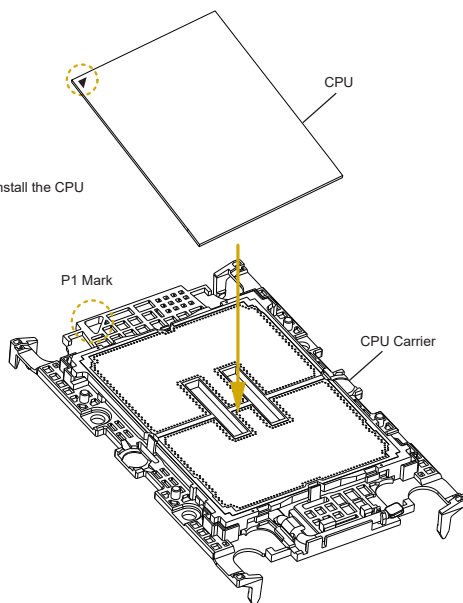
Before inserting the CPU into the socket, please check if the PnP cap is on the socket, if the CPU surface is unclean, or if there are any bent pins in the socket. Do not force to insert the CPU into the socket if above situation is found. Otherwise, the CPU will be seriously damaged.

1

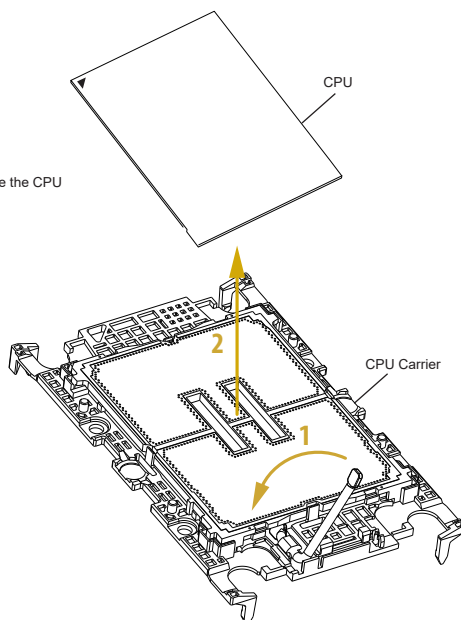


2

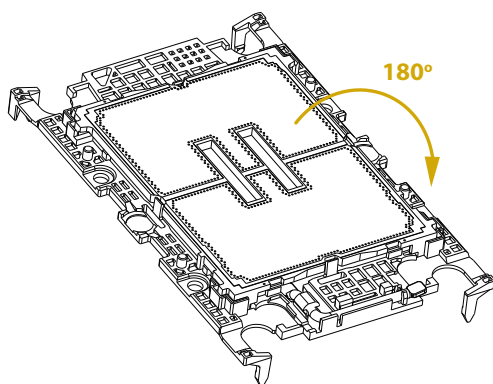
Installing CPU:
Align the Pin1 mark to install the CPU



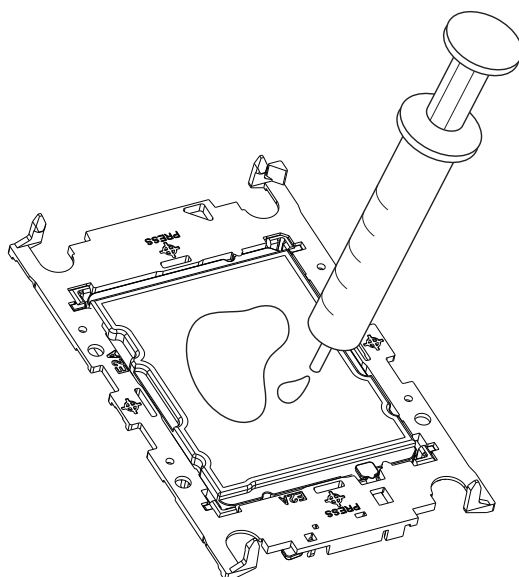
Removing CPU:
Press the lever to remove the CPU



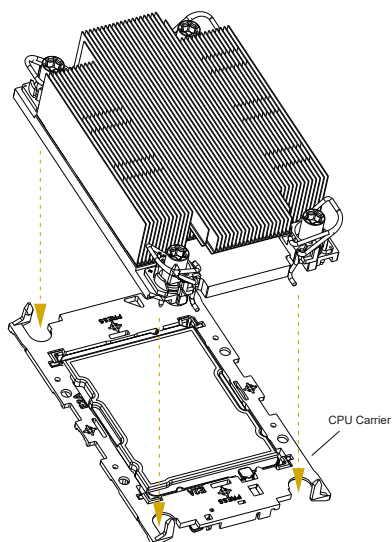
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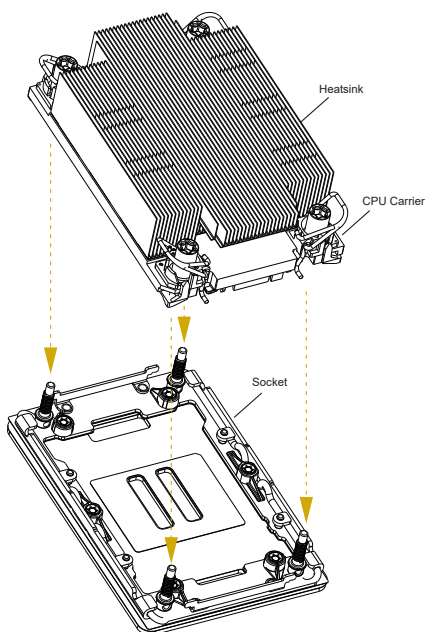
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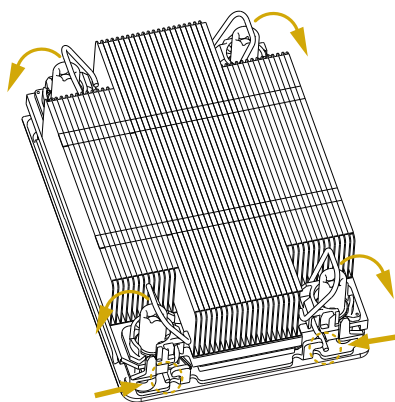
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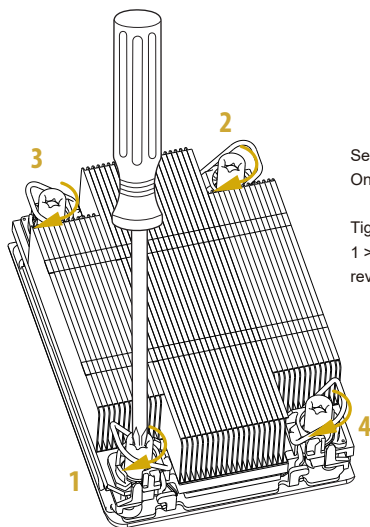
6



7



8



Set the torque wrench to 6-12 in-lb.
One fourth a turn each time.

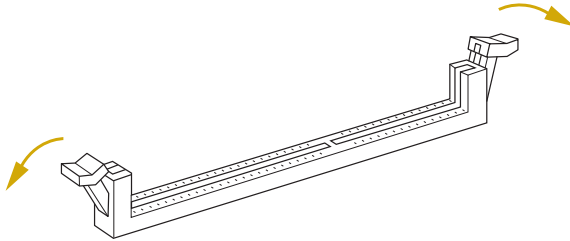
Tighten the screws in a sequential order
 $1 > 2 > 3 > 4$. Loosen the screws in a
reverse order.

4.4 Installing the Memory Modules (DIMM)

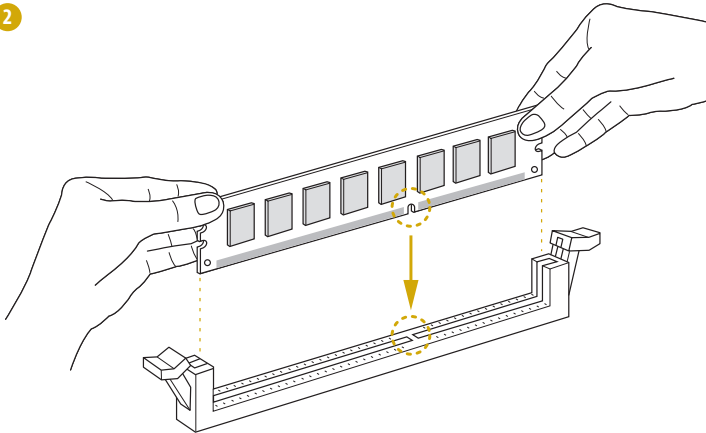


The DIMM only fits in one correct orientation. It will cause permanent damage to the server motherboard and the DIMM if forcing the DIMM into the slot at incorrect orientation. For more information about DIMM installation, refer to the server motherboard user manual.

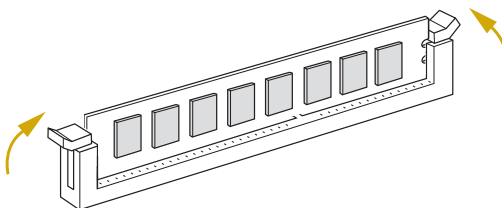
1



2



3



Appendix

Installing the Server in a Rack

This section describes how to rackmount the server with slide rail assembly.



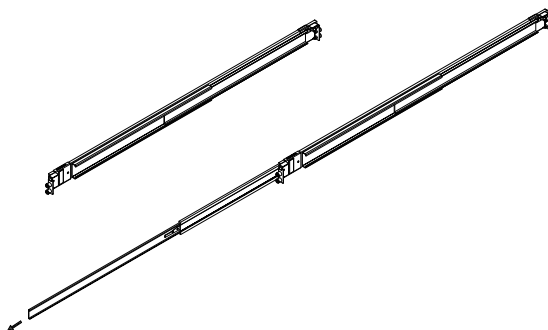
The rails installation instructions in this manual are example only, the actual rail assembly procedure may differ slightly.

The rail assembly consists of outer, middle and inner rail.

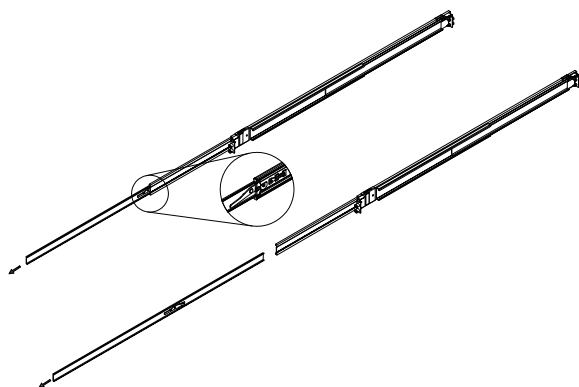


Some slide rails are labeled with either L or R, please identify prior to rail installation. Install the rail labeled with L on the left side of rack, and the rail labeled with R on the right side.

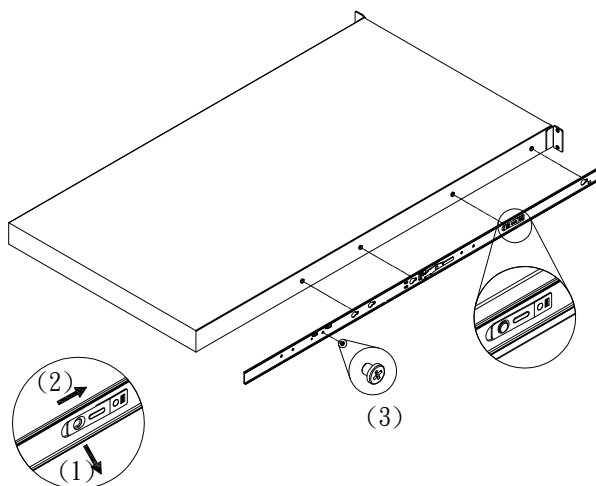
1. Fully extend the inner rail from the rail assembly.



1. Press the release lever on the inner rail to remove it.

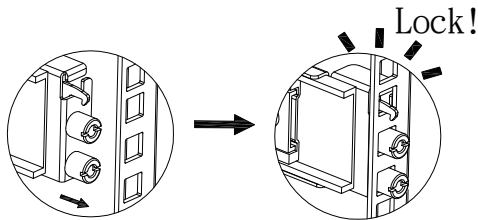


2. Attach the inner rail to the chassis.
 - (1) Lift the clip on the inner rail.
 - (2) Slide the inner rail toward the chassis rear.
 - (3) Secure the inner rail to the chassis with screw.

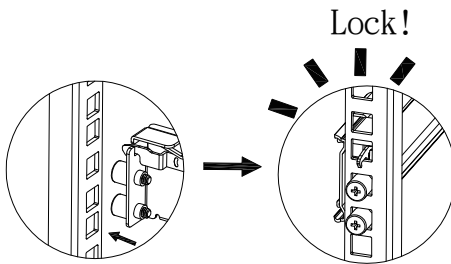


3. Attach the outer rail to the chassis.

(1) Lift lever, aim the rack mount pin to the rack post and push forward.

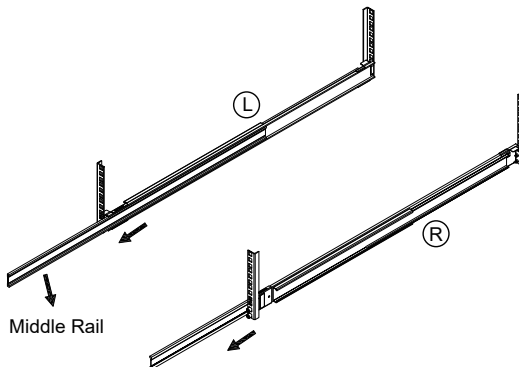


(2) Lift lever, aim the rack mount pin to the rack post and pull back.

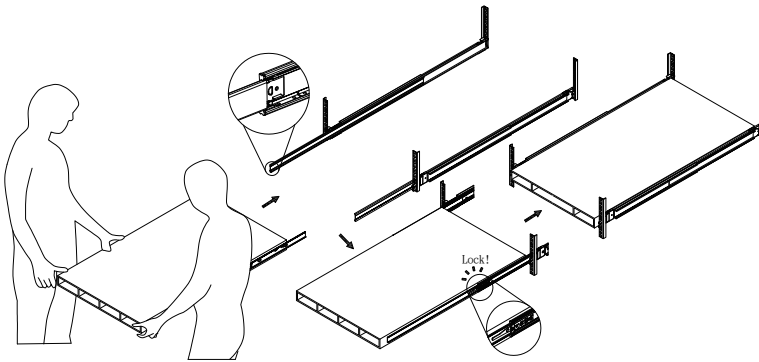


4. Make sure the outer rail is locked to rack securely.

5. Fully extend the middle rail out of the outer rail until locked.

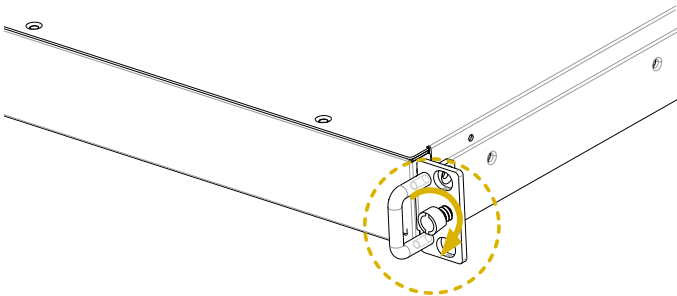


1. Aim the rail to push server into rack.



The server is heavy. For safe lifting, two or more persons are required to install the server into the rack.

2. Tighten the thumbscrews on the front of server to secure the server to the rack.
3. To remove the server from the rack, reverse these instructions.



When connecting cables to the server, make sure there is enough cable slack so sliding the server in and out of the rack without accidentally unplugging a cable.

Contact Information

Contact ASRock Rack or want to know more about ASRock Rack, you're welcome to visit ASRock Rack's website at <http://www.asrockrack.com>; or contact the dealer for further information. For technical questions, please submit a support request form at <https://event.asrockrack.com/tsd.asp>

ASRock Rack Incorporation

e-mail: ASRockRack_sales@asrockrack.com

ASRock Rack EUROPE B.V.

Bijsterhuizen 11-11
6546 AR Nijmegen
The Netherlands
Phone: +31-24-345-44-33

ASRock Rack America, Inc.

4331 Eucalyptus Ave, Chino, CA 91710 U.S.A.
Phone: +1-909-590-8308
Fax: +1-909-590-1026