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GREEN Less Heat, Less Power Consumption

STABLE Robust Design, Quality Parts

Stable and
Reliable Solution

Server/Workstation
Motherboard

4U60L8E-GENOA/2T

User Manual

English



Version 1.01

Published Oct. 2025

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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”

ASRock Rack’s Website: www.ASRockRack.com

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.

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 4U60L8E-GENOA/2T, 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, hard 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
4U60L8E-GENOA/2T	GENOAD8UD-2T/X550



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.
<http://www.asrockrack.com/support/>

1.1 Shipping Box Contents

Item	Quantity
Server Barebone: 4U60L8E-GENOA/2T	1
CPU Heatsink	1
Rail Kit	1
Accessory Box	1
- 4 Power Cords	
- 2 Screws for M.2	



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

1.2 Specifications

4U60L8E-GENOA/2T	
System	
Form Factor	4U rackmount
Dimension	434 x 853 x 176mm (17.1" x 33.5" x 6.9")
Support MB	GENOAD8UD-2T/X550
Front Panel	
Button	System power on/off, system reset, ID
LED	Power, hard drive activity, LAN activity, system fault, ID
USB3.2 Gen1 Port	1 Type-A (USB3.2 Gen1)
External Drive Bay / Storage	
Rear Side	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays* *Supports TA@30C
Rear Side Backplane	8-port NVMe passive backplane
Internal Side	60 Hot-swap 3.5" SATA/SAS drive bays* 2 M-key (PCIe5.0 x4); support 2280/2260/2242/2230 form factor *Additional RAID/HBA card required to support the 60 3.5" SATA/SAS drives
Internal Side Backplane	2 30-port 12G SAS backplanes with 40-PHY expander
Power Supply	
Type	2+2 CRPS
Output Watt	800W
Efficiency	80-PLUS Platinum
AC Input	100-240V, 60/50Hz
System Fan	
Fan	4 PWM hot-swap 80x38mm fans

Processor System	
CPU	Supports AMD EPYC™ 9005*/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors *A BIOS update is required to support AMD EPYC™ 9005 series processors.
Socket	Single Socket SP5 (LGA 6096)
Thermal Design Power	Up to 270W
Chipset	System on Chip
System Memory	
Supported DIMM Quantity	8 DIMM slots (1DPC)
Supported Type	Supports DDR5 288-pin RDIMM, RDIMM-3DS
Max. Capacity per DIMM	RDIMM: 128GB (2Rx4) RDIMM-3DS: 256GB (2Rx4)
Max. DIMM Frequency	4800MHz
Voltage	1.1V
PCIe Expansion Slot	
PCIe x16	4 FHHL PCIe5.0 x16
Ethernet	
Additional GbE Controller	Intel® X550-AT2: 2 RJ45 (10GbE)
Server Management	
BMC Controller	ASPEED AST2600
IPMI Dedicated GLAN	1 Realtek RTL8211F for dedicated management GLAN
Graphics	
Controller	ASPEED AST2600
VRAM	DDR4 512MB

Rear I/O	
UID Button/ LED	1 UID button w/ LED
Video Port	1 DB15 (VGA)
USB3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE) 1 Dedicated IPMI
System BIOS	
BIOS Type	AMI UEFI BIOS; 256Mb (32MB) SPI Flash ROM
BIOS Features	ASRock Rack Instant Flash, ACPI 6.4 and above compliance wake up events, SMBIOS 3.5.0 and above, Plug and Play (PnP)
Hardware Monitor	
Temperature	CPU, MB, TR1 temperature sensing
Fan	CPU/Rear/Front fan tachometer CPU quiet fan (allows chassis fan speed auto-adjust by CPU temperature) CPU/Rear/Front fan multi-speed control
Voltage	VCORE, VCCSA, VCCM, 3V, 5V, 12V, +BAT, 3VSB, 5VSB, VCCIO, +2.5V_VPP
Environment	
Temperature	Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% (non condensing)

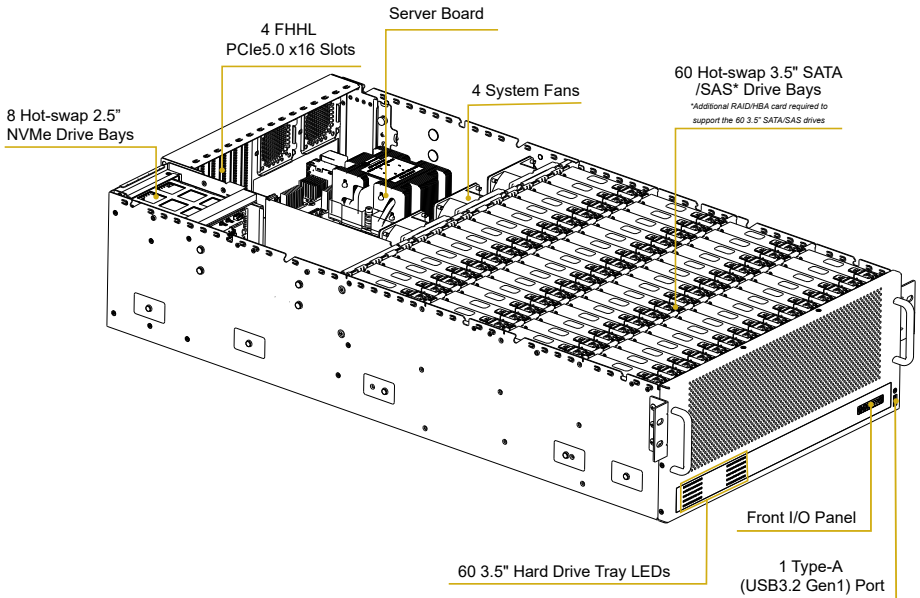


The functions are supported depending on the type of the server motherboard. Refer to the server motherboard user manual for more information.

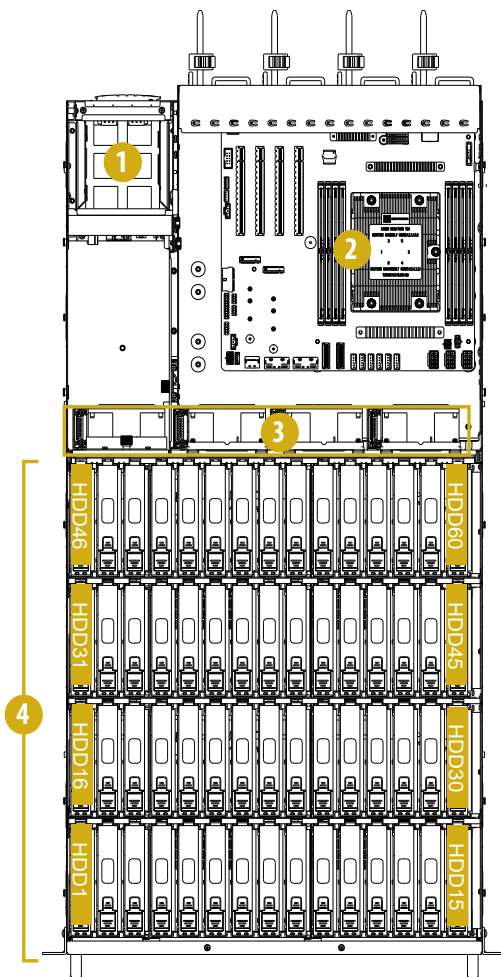
Chapter 2 Server System Overview

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

2.1 System Components

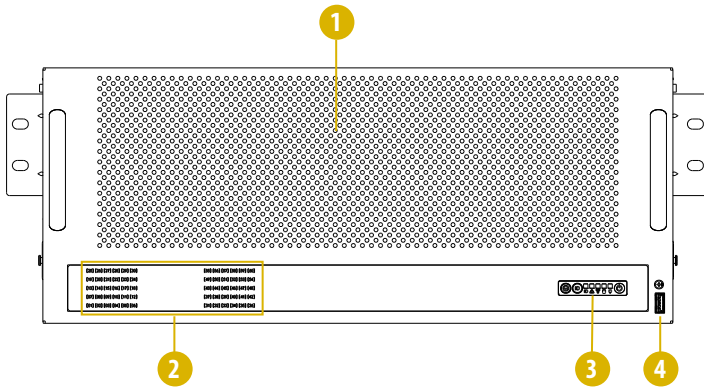


2.2 Internal Features



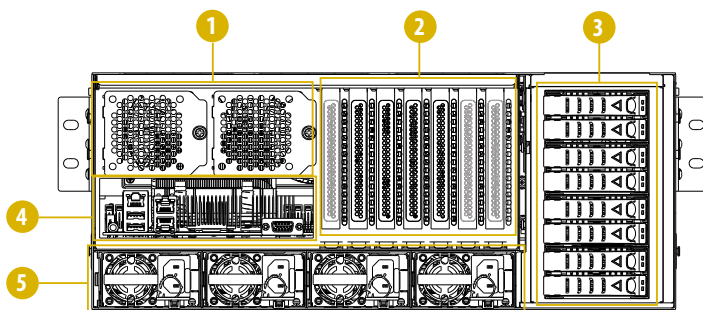
No.	Description
1	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
2	Server motherboard
3	4 PWM hot-swap 80x38mm fans
4	60 Hot-swap 3.5" SATA/SAS drive bays*
	*Additional RAID/HBA card required to support the 60 3.5" SATA/SAS drives

2.3 System Front Panel



No.	Description
1	Front vent
2	60 3.5" Hard drive tray LEDs
3	Front I/O panel
4	1 Type-A (USB3.2 Gen1) port

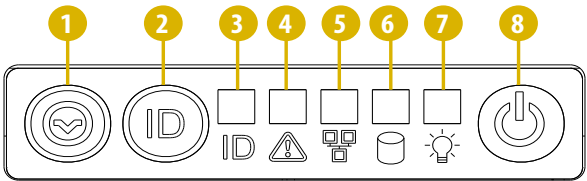
2.4 System Rear Panel



No.	Description
1	Rear vents
2	4 FHHL PCIe5.0 x16 slots
3	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays* *Supports TA@30C
4	Rear I/O panel (depends on the specification of the server motherboard)
5	2+2 CRPS

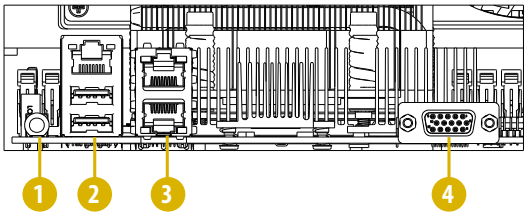
2.5 I/O Panel

Front I/O Panel



No.	Description
1	System reset button
2	ID button
3	ID LED
4	System fault LED
5	LAN activity LED
6	Hard drive (M.2) activity LED
7	Power LED
8	System power on/off button

Rear I/O Panel



No.	Description
1	ID button w/ LED
2	Upper: 1 Dedicated IPMI LAN port* Lower: 2 Type-A (USB3.2 Gen1) ports
3	2 RJ45 (10GbE) LAN ports (LAN1, LAN2)**
4	1 DB15 (VGA) port

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.

ID Button

Press the ID button to toggle the front I/O panel ID LED and the rear I/O panel ID LED on and off. Use this button to locate the server working on behind a rack or servers.

System Power On/Off Button

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

Status LED Definitions

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

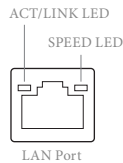
System Fault LED	
Status	Description
Off	Running or normal operation
Red	At least one sensor has critical alert.

LAN Activity LED	
Status	Description
Green	Link between system and network or no access
Blinking Green	Network access

Hard Drive (M.2) Activity LED	
Status	Description
Off	Hard drive idle
Blinking Green	Hard drive access

Power LED	
Status	Description
Off	Power off
Green	Power on

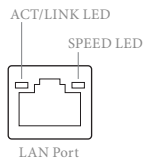
*There is one LED on each LAN port. Please refer to the table below for the LAN port LED indications.



Dedicated IPMI LAN Port LED Indications

Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No link	Off	10Mbps connection or no link
Blinking Yellow	Data activity	Yellow	100Mbps connection
On	Link	Green	1Gbps connection

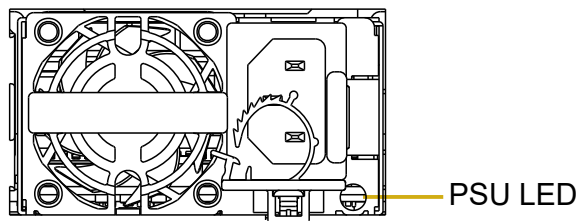
**There is one LED on each LAN port. Please refer to the table below for the LAN port LED indications.



LAN Port LED Indications

Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No link	Off	100Mbps connection or no link
Blinking Green	Data activity	Yellow	1Gbps connection
On	Link	Green	10Gbps connection

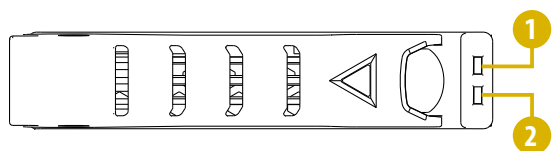
2.6 PSU LED



PSU Status LED	
Status	Description
Off	No AC power to all power supplies
Green	Output ON and OK
Blinking Green (1Hz)	PSU standby state AC preset / Only +5VSB on
Blinking Green (2Hz)	Power supply FW updating (Bootloader mode)
Red	Power supply critical event causing a shutdown, failure, over current, short circuit, over voltage, fan failure, over temperature
Blinking Red (1Hz)	AC cord unplugged or AC power lost with a second power supply in parallel still with AC input power
Blinking 1 Second Red and 1 Second Green	Power supply warning events where the power supply continues to operate; high temp, high power, high current, slow fan

2.7 Hard Drive Tray LED

2.5" Hard Drive Tray LED



No.	Description
1	Hard drive activity LED (green)
2	Hard drive locate LED (blue) + fail LED (red)

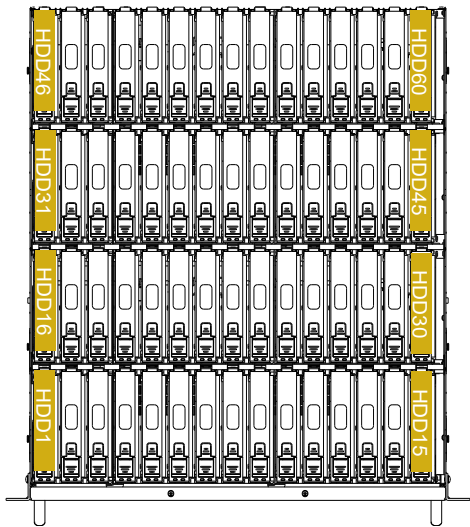
Status LED Definitions

Activity LED	Locate LED	Fail LED	Hard Drive Status
Green	Blue	Red	Description
Off	x	x	Drive not present
On	x	x	Drive present, not active
4Hz	x	x	Drive present, active
x	4Hz	Off	Locate (identify)*
x	Off	On	Fail
x	Off	1Hz	Rebuild

**Work in RAID only*

3.5" Hard Drive Tray LED

Each number of hard drive tray activity LEDs correspond its hard drive status.



[25] [26] [27] [28] [29] [30]	[55] [56] [57] [58] [59] [60]
[19] [20] [21] [22] [23] [24]	[49] [50] [51] [52] [53] [54]
[13] [14] [15] [16] [17] [18]	[43] [44] [45] [46] [47] [48]
[07] [08] [09] [10] [11] [12]	[37] [38] [39] [40] [41] [42]
[01] [02] [03] [04] [05] [06]	[31] [32] [33] [34] [35] [36]

3.5" Hard Drive Tray Activity LED	
Status	Description
Off	Hard drive powered-off
Blinking Blue	Hard drive active
Blinking Red	Hard drive failed

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.



Ensure the motherboard battery is installed before unplugging the power cord or installing/removing the motherboard. Failure to follow this precaution may result in physical injury or damage to motherboard 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.

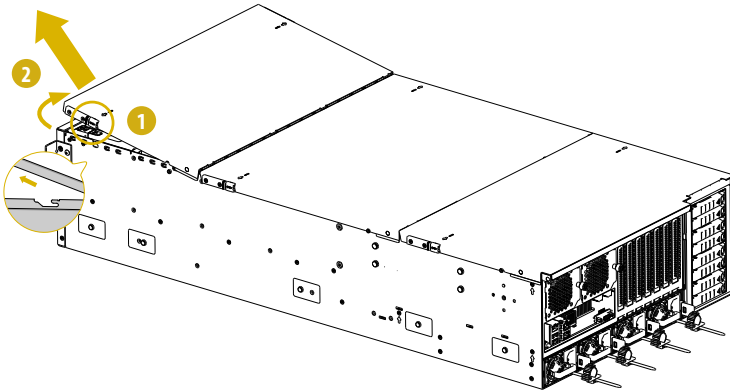
3.1 Server Top Cover

Removing the Server Top Cover

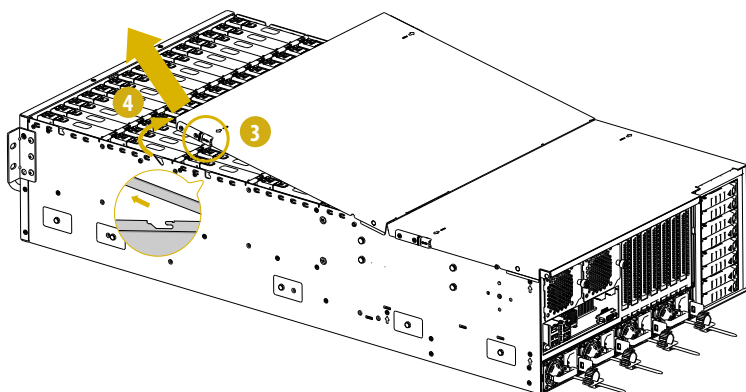


1. Before removing the top cover, power off the server and unplug the power cord.
2. The system must be operated with the chassis top cover installed to ensure proper cooling.
3. Remove the front cover first, then the middle, and the rear.

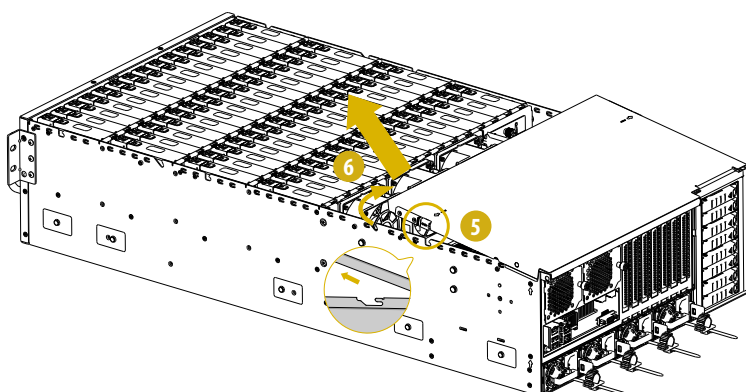
1. Push both tabs on the side of the front cover toward the FRONT of the chassis to release the cover from the locked position.
2. Tilt the cover and remove it.



3. Push both tabs on the side of the middle cover toward the FRONT of the chassis to release the cover from the locked position.
4. Tilt the cover and remove it.

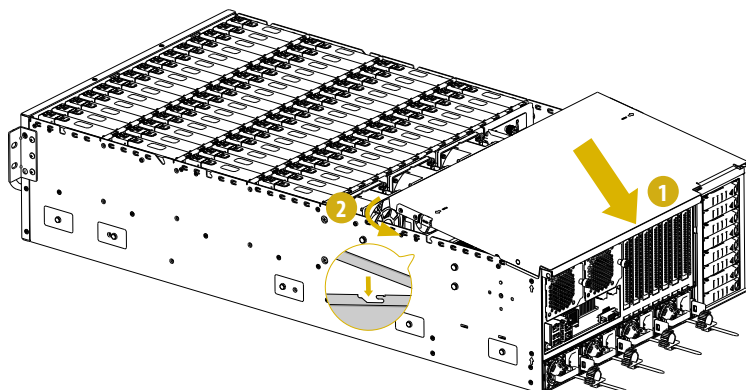


5. Push both tabs on the side of the rear cover toward the FRONT of the chassis to release the cover from the locked position.
6. Tilt the cover and remove it.

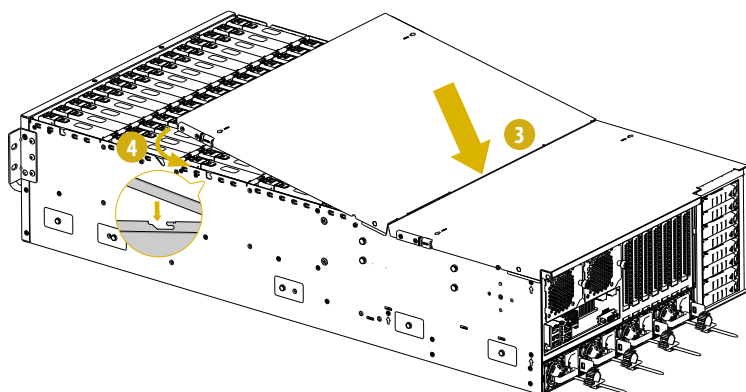


Installing the Server Top Cover

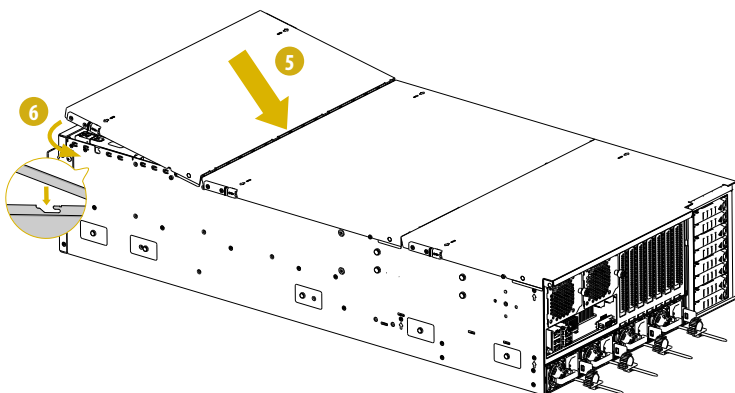
1. Tilt the rear cover on the chassis, making sure the edge of the cover align with the rear of the chassis.
2. Place the rear cover on the chassis until hearing a click sound.



3. Tilt the middle cover on the chassis, making sure the edges of the covers align with each other.
4. Place the middle cover on the chassis until hearing a click sound.



5. Tilt the front cover on the chassis, making sure the edges of the covers align with each other.
6. Place the front cover on the chassis until hearing a click sound.

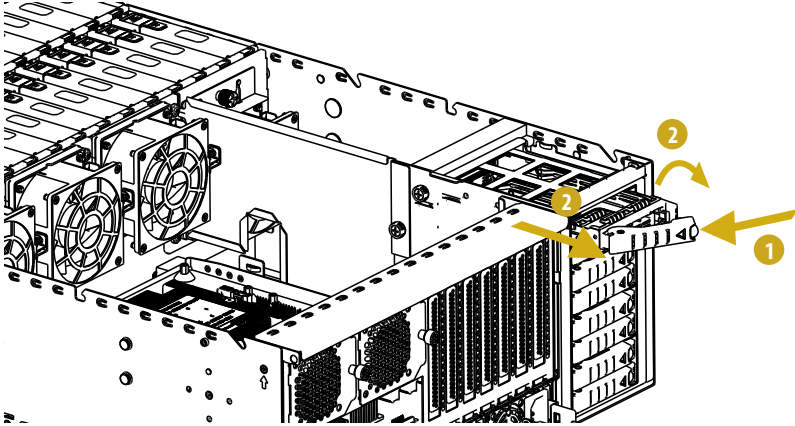


3.2 Hard Drive

2.5" Hard Drive

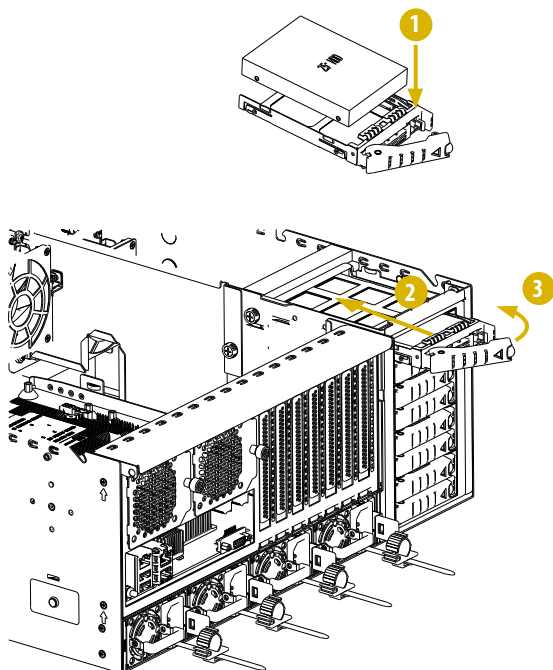
Removing a 2.5" Hard Drive Tray from the Chassis

1. Push the locking lever latch on the drive tray toward LEFT to unlock the retention lever.
2. Rotate the lever out and away from the module bay and pull the tray out.



Installing a 2.5" Hard Drive to the Chassis

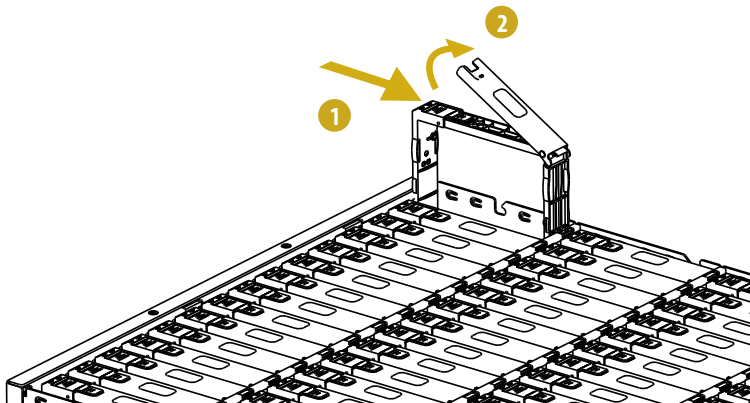
1. Place the 2.5" hard drive into the tray with the label facing up.
2. Slide the hard drive assembly into the hard drive bay until the assembly is fully seated.
3. Rotate the lever in to lock the assembly in place.



3.5" Hard Drive

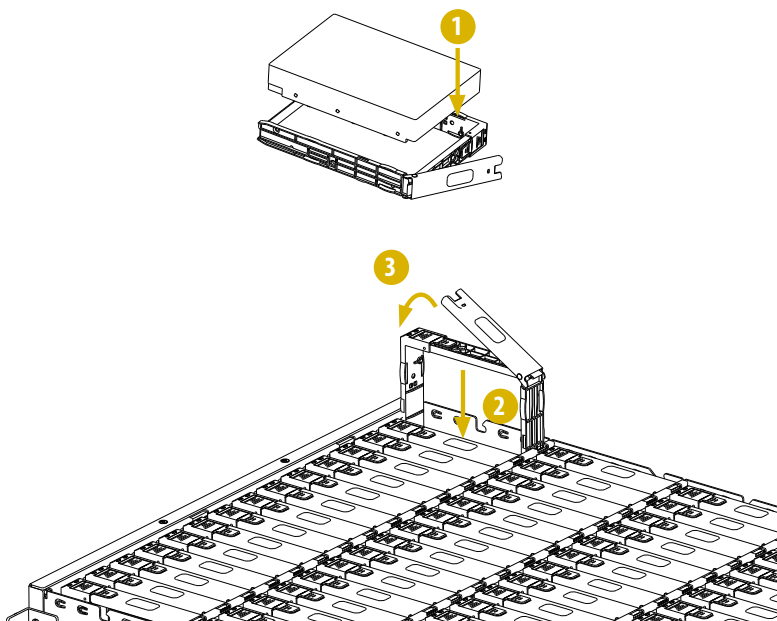
Removing a 3.5" Hard Drive Tray from the Chassis

1. Press the locking lever latch on the drive tray to unlock the retention lever.
2. Rotate the lever out and away from the module bay and pull the tray out.



Installing a 3.5" Hard Drive to the Chassis

1. Place the 3.5" hard drive into the tray.
2. Slide the hard drive assembly into the hard drive bay until the assembly is fully seated.
3. Push in the locking lever to lock the assembly in place.



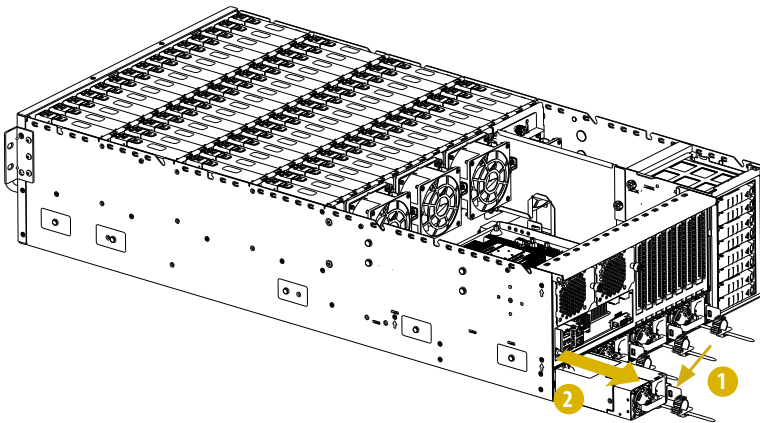
3.3 Power Supply

This system can accommodate four power supply units in the bay at the rear of the chassis. Each unit provides up to 800W of power. Two PSU are required for full load operation, with the other two PSU purely as redundant, load-sharing backup. Two PSU can be removed without affecting system operation.

Removing the Power Supply Unit

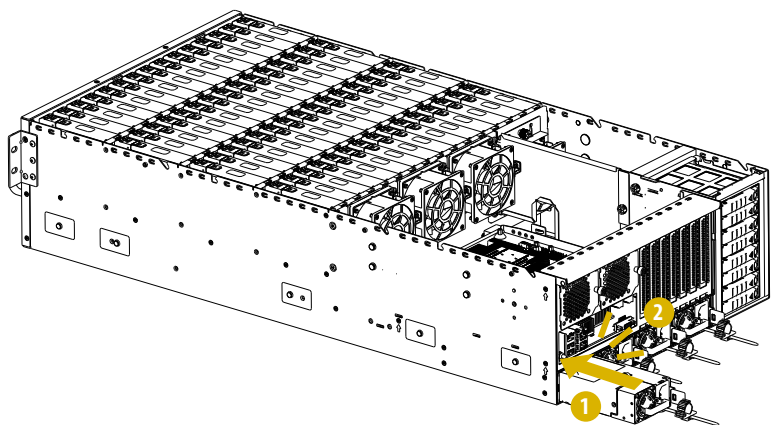
To remove a failed power supply unit, identify the failed PSU by checking the power supply LEDs on the PSUs.

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



Installing the Power Supply Unit

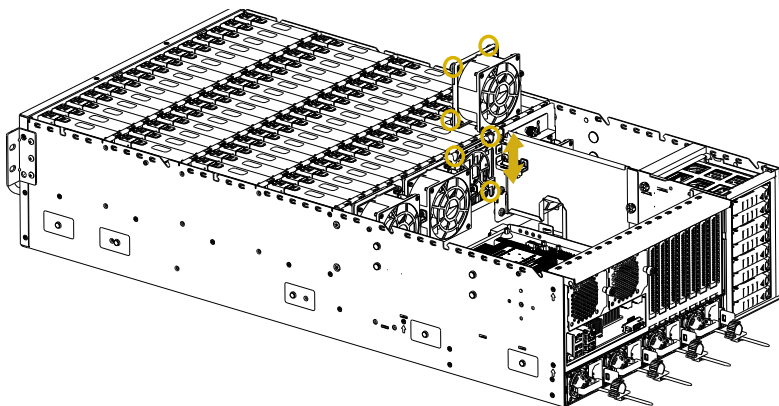
1. Align the power supply unit with the power supply bay.
2. Carefully slide the PSU all the way into the bay until it clicks into place.



3.4 System Fan

Replacing System Fan

1. Lift to remove the failed fan. Align the mounts on the replacement fan with the fan mounting holes on the fan bar.
2. Gently place the fan into the fan frame.
3. Make sure the fan is well seated and the fan connector is properly connected.



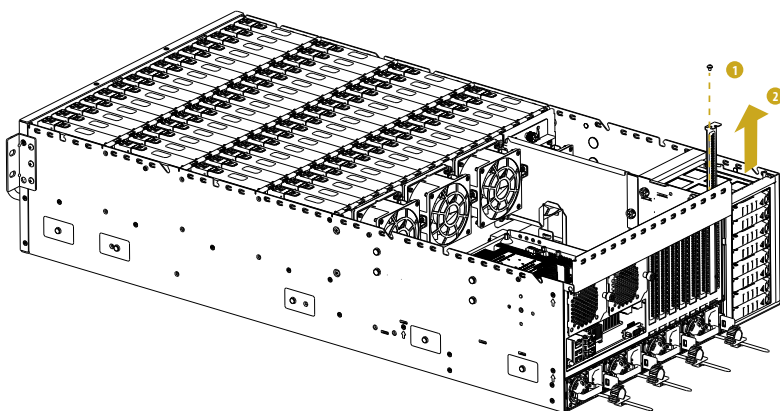
3.5 Add-in Card



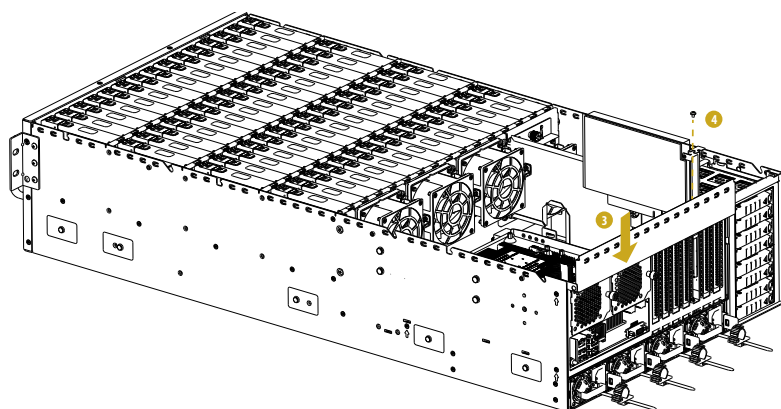
1. Before installing an add-in card, sometime it needs to have a riser-card installed on the server board first.
2. Before installing the add-in cards, power off the server and unplug the power cord.

Installing the Add-in Card

1. Release the screw securing the slot cover to the chassis.
2. Remove the slot cover.



3. Install an add-in card into the slot.
4. Make sure the card is well seated and tighten the screw.

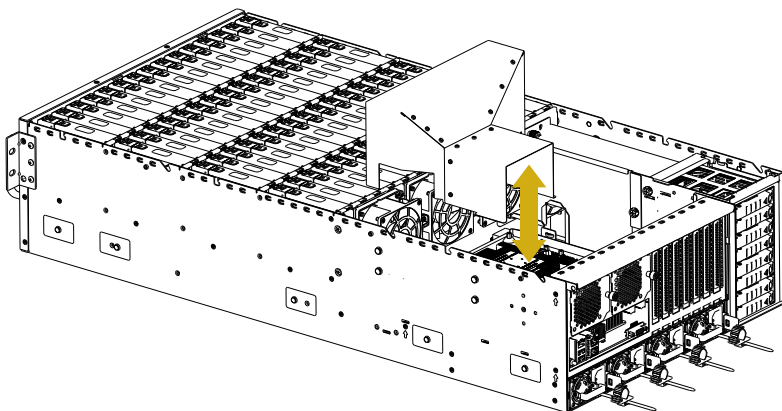


3.6 Air Duct

Installing the Air Duct

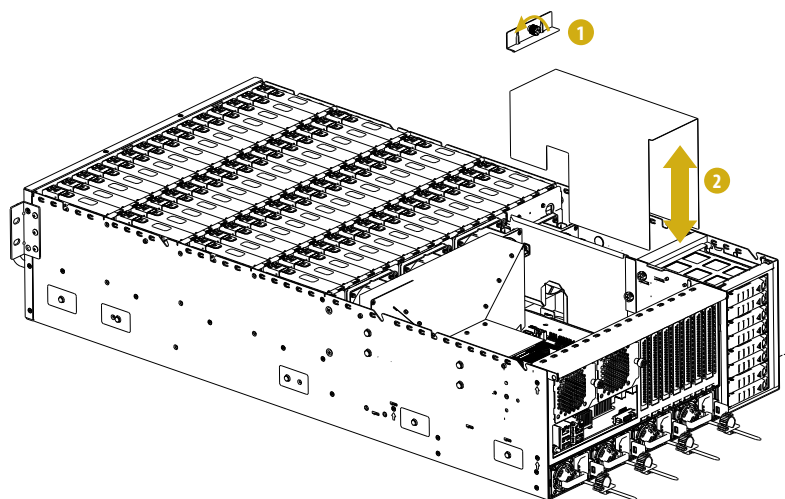
Server Board Air Duct

Align the air duct with the server board and system fans. Lower the air duct and place it on the chassis.



2.5" Hard Drive Air Duct

Hand-release the thumbscrew and remove the bracket. Align the air duct with the hard drive and system fans. Lower the air duct and place it on the chassis.



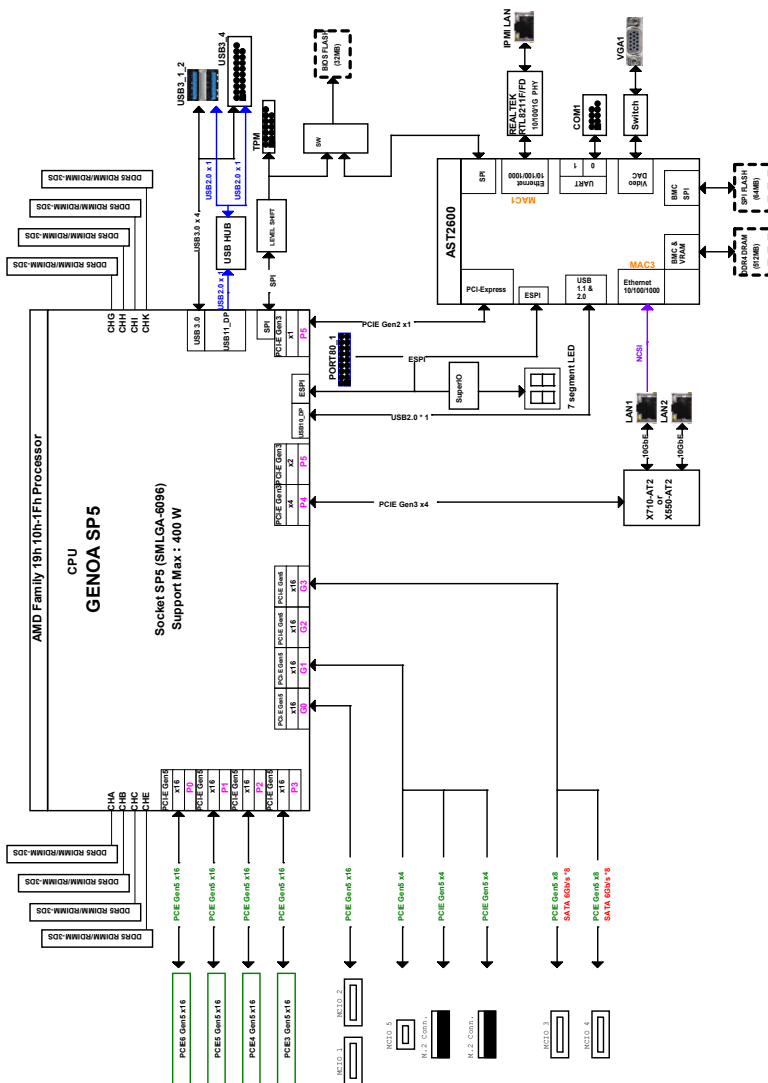
4.1 Layout



No.	Description
1	2 x 288-pin DDR5 DIMM Slots (DDR5_G1, DDR5_I1)
2	2 x 288-pin DDR5 DIMM Slots (DDR5_H1, DDR5_K1)
3	ATX 4-PIN Power Connector (ATX4PIN1 (<i>ATX 24pin-to-4pin</i>))
4	ATX 12V Power Connector (ATX12V1)
5	ATX 12V Power Connector (ATX12V2)
6	ATX 12V Power Connector (ATX12V3)
7	AMD Socket SP5 (SM-LGA-6096) (CPU1)
8	System Fan Connector (FAN1)
9	System Fan Connector (FAN2)
10	System Fan Connector (FAN3)
11	System Fan Connector (FAN4)
12	System Fan Connector (FAN5)
13	System Fan Connector (FAN6)
14	2 x 288-pin DDR5 DIMM Slots (DDR5_A1, DDR5_C1)
15	Mini Cool Edge IO x8 Connector (MCIO1)
16	2 x 288-pin DDR5 DIMM Slots (DDR5_B1, DDR5_E1)
17	Mini Cool Edge IO x8 Connector (MCIO2)
18	Mini Cool Edge IO x8 Connector (MCIO3)
19	M.2 Socket (M2_1) (Type 2230/2242/2260/2280)
20	Mini Cool Edge IO x8 Connector (MCIO4)
21	Mini Cool Edge IO x4 Connector (MCIO5)
22	Backplane PCI Express Hot-Plug Connector (CPU1_HSBP1)
23	SATA Power Connector (SATAPWR1)
24	M.2 Socket (M2_2) (Type 2230/2242/2260/2280)
25	PSU SMBus Header (PSU_SMB1)
26	System Panel Header (PANEL1)
27	SATA SGPIO Connector (SATA_SGPIO4)
28	Auxiliary Panel Header (AUX_PANEL1)
29	SATA SGPIO Connector (SATA_SGPIO3)
30	USB 3.2 Gen1 Header (USB3_3_4)
31	Chassis Speaker Header (SPEAKER1)
32	Clear CMOS Pad (CLRMOS1)
33	Non Maskable Interrupt Button (NMI_BTN1)
34	Thermal Sensor Header (TR1)

No.	Description
35	Intelligent Platform Management Bus Header (IPMB1)
36	BMC SMBus Header (BMC_SMB1)
37	COM Port Header (COM1)
38	PCI Express 5.0 x16 Slot (PCIE3)
39	PCI Express 5.0 x16 Slot (PCIE4)
40	PCI Express 5.0 x16 Slot (PCIE5)
41	PCI Express 5.0 x16 Slot (PCIE6)
42	SPI TPM Header (TPM_BIOS_PH1)

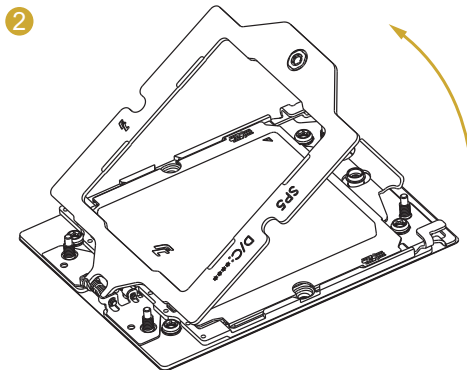
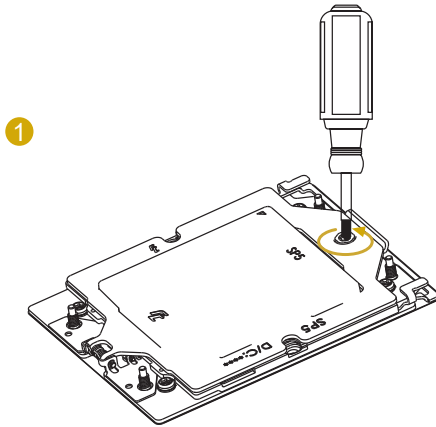
4.2 Block Diagram



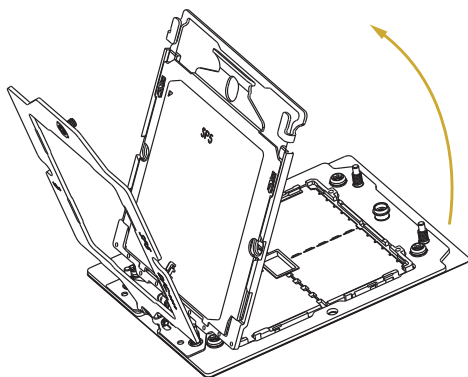
4.3 Installing the CPU and Heatsink (LGA 6096 Socket)



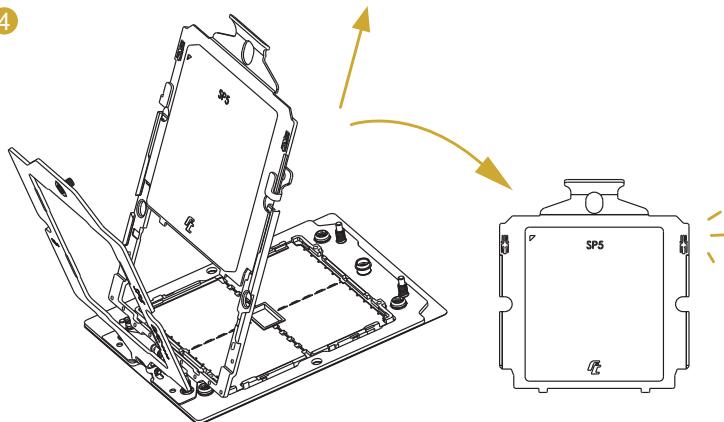
1. Before you insert the CPU into the socket, check if the PnP cap is on the socket, if the CPU surface is unclean, or if there are any bent pins in the socket. Do not force to insert the CPU into the socket if above situation is found. Otherwise, the CPU will be seriously damaged.
2. Unplug all power cables before installing the CPU.



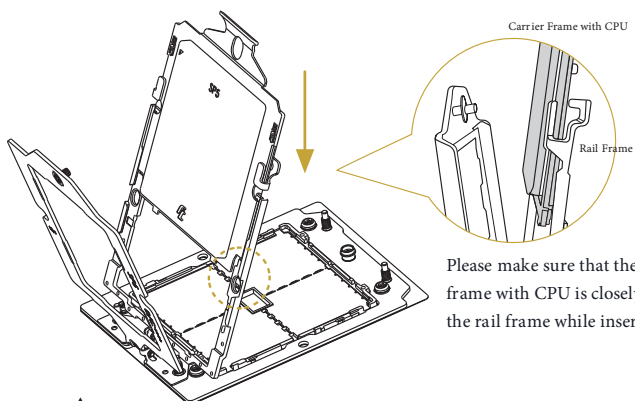
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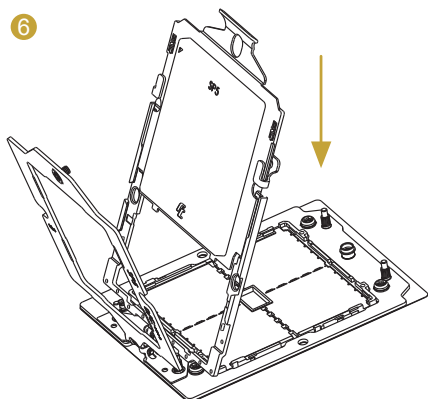


Please make sure that the carrier frame with CPU is closely attached to the rail frame while inserting it.

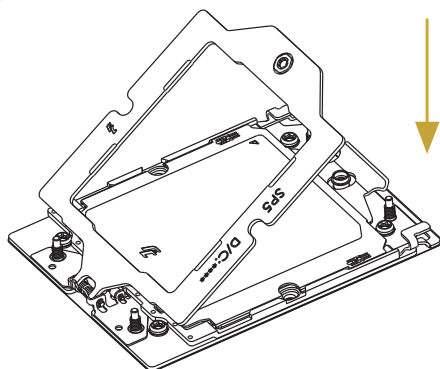


Install the carrier frame with CPU. Don't separate them.

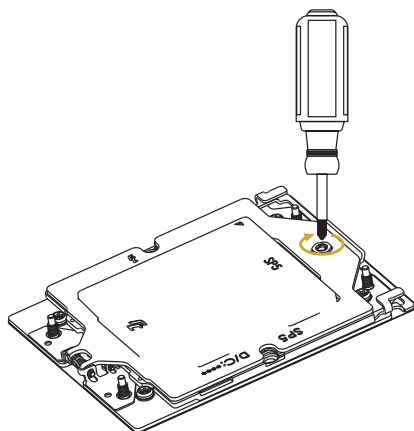
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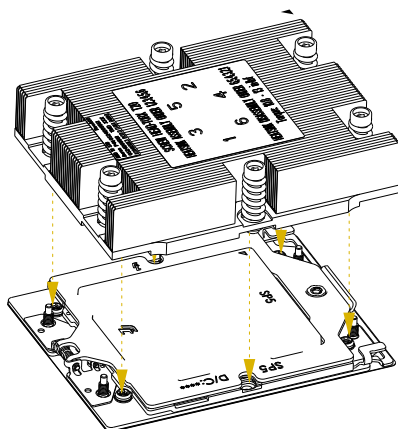
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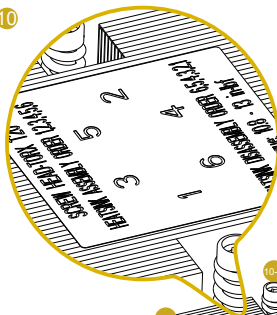
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9

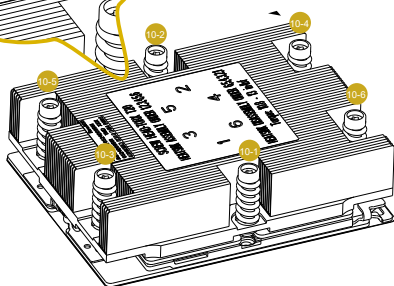


10



Set the torque wrench to 10.8-13.0 in.-lb.
One fourth a turn each time.

Tighten the screws in a sequential order
1 > 2 > 3 > 4 > 5 > 6.
Loosen the screws in a reverse order.

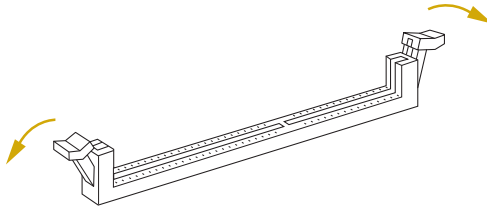


4.4 Installing the Memory Modules (DIMM)

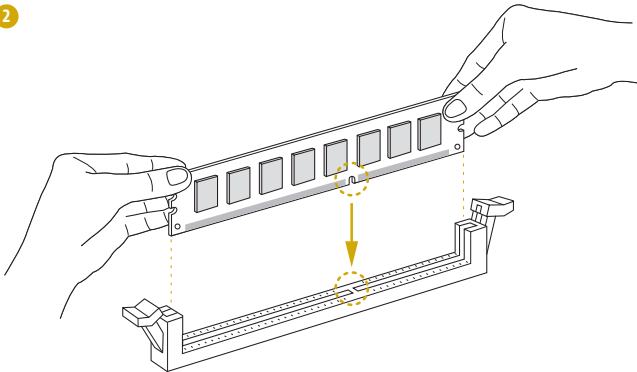


The DIMM only fits in one correct orientation. It will cause permanent damage to the server motherboard and the DIMM if forcing the DIMM into the slot at incorrect orientation. For more information about DIMM installation, refer to the server motherboard user manual.

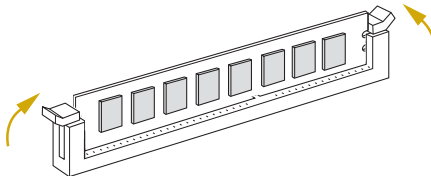
1



2



3



Appendix

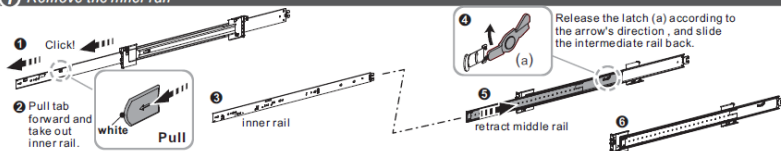
Installing the Server in a Rack

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

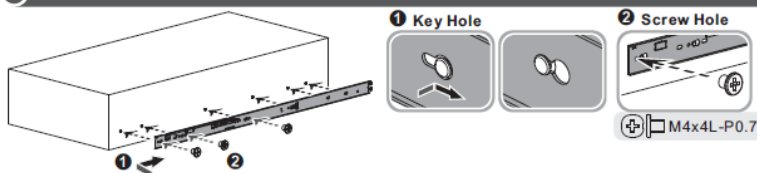


1. The rails installation instructions in this manual are example only, the actual rail assembly procedure may differ slightly.
2. Some slide rails are labeled with either L or R, please identify prior to rail installation. Install the rail labeled with L on the left side of rack, and the rail labeled with R on the right side of rack.

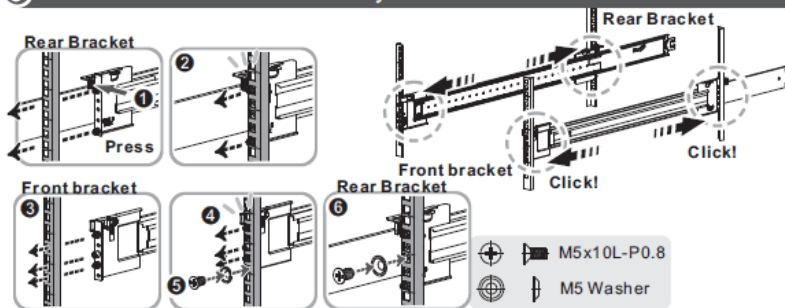
1 Remove the inner rail



2 Install the inner rail onto the chassis



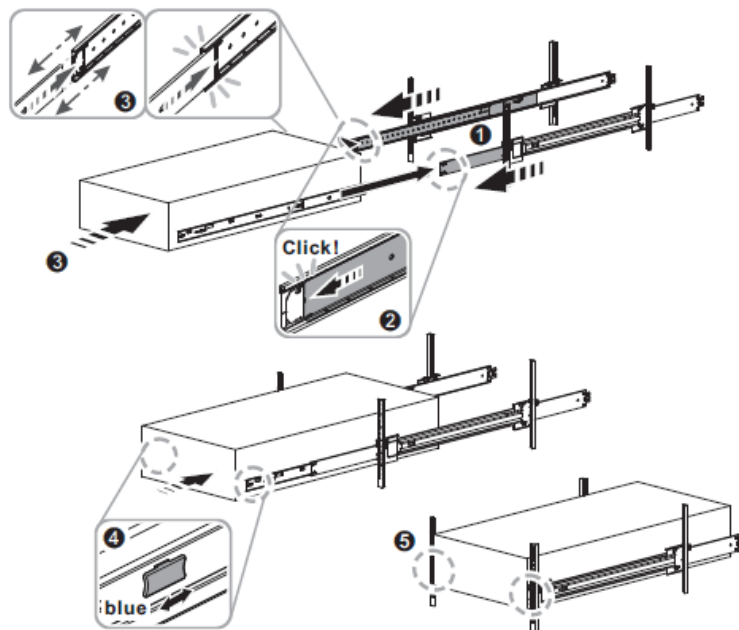
3 Fix the outer rail/bracket assembly to the frame



7 Please repeat installation step for the other side.

4 Insert the chassis to complete the installation

- 1 2 Pull the middle rail fully extended in lock position, ensure ball bearing retainer is located at the front of the middle rail.
- 3 Horizontally insert the chassis into middle-outer rails.
- 4 When hit a stop, please pull/push the blue release tab on the inner rails.
- 5 According to the model of the chassis to lock the screw for rackmount ear.



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>

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