P/N: 15G065423000AR V1.0

Quick Installation Guide

4U4G-GNR/HPR

ASRock Rack
www.asrockrack.com

4U4G-GNR/HPR

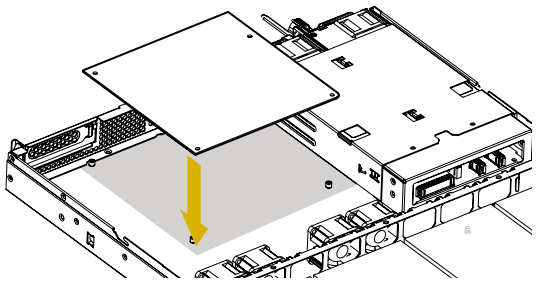
The User Manual is available for download from the ASRock Rack's official website at https://www.asrockrack.com.

Take note of the following precautions before installing the components or change any settings.

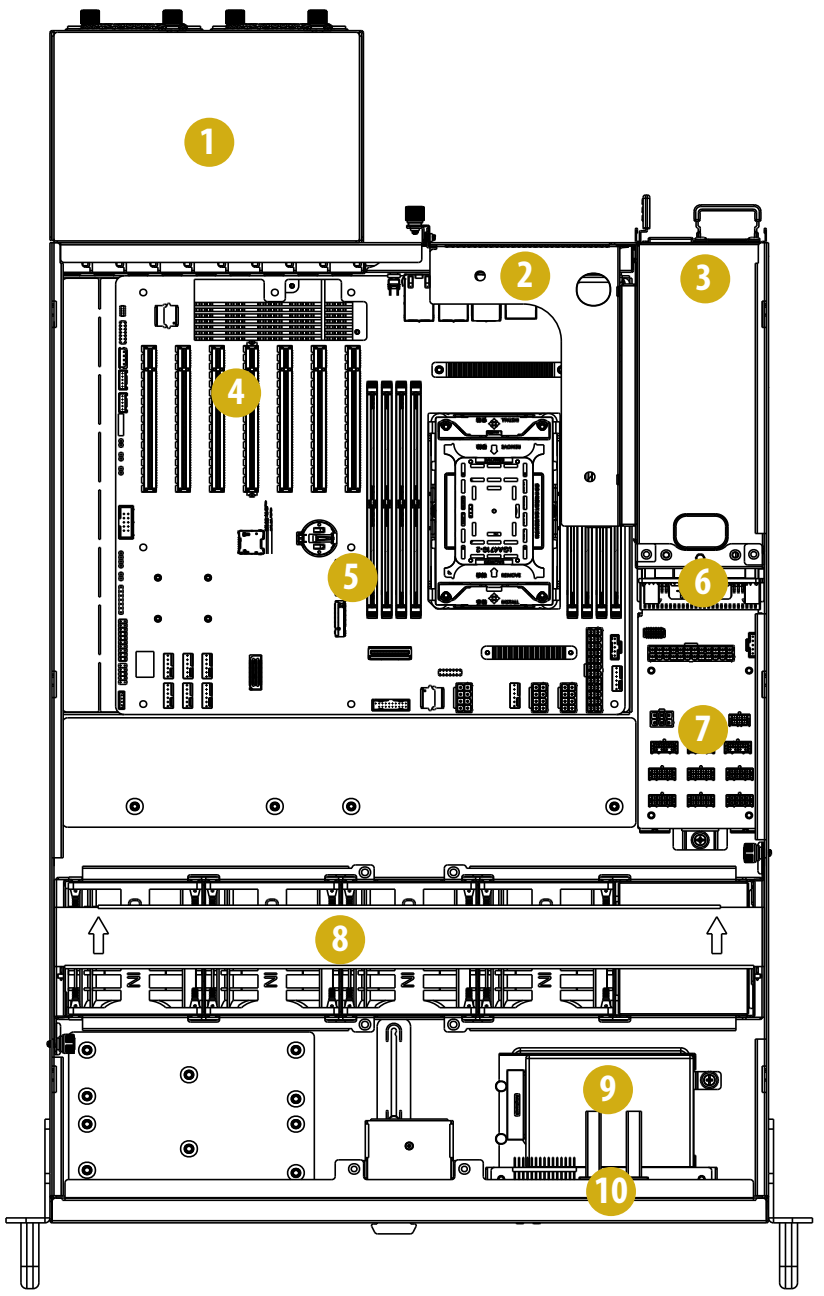
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.
3. Hold components by the edges and do not touch the ICs.
4. Whenever uninstalling any components, place them on a grounded anti-static pad or in the bag that comes with the components.
5. When placing screws into the screw holes to secure any components to the barebone, please do not over-tighten the screws! Doing so may damage both components and barebone.

1 Replace Server Board

1. Carefully unplug all cables and release screws on the server board to remove them from the barebone.
2. Align the replaced server board with the mounting holes.
3. Affix the screws clockwise into the mounting holes in all of the corners of the server board.
   Do not over-tighten the screws.

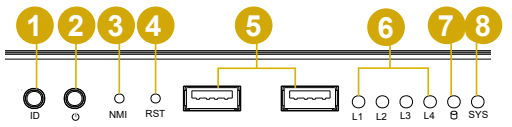


2 Internal Features



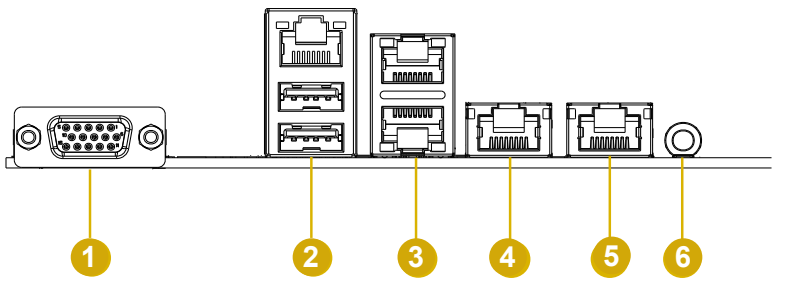
No.	Description
1	2 PWM fixed 80x80mm fans
2	1 FHFL single-slot PCIe5.0 x8 slot
3	2+1 CRPS
4	Up to 4 dual-slot or 7 single-slot* FHFL PCIe5.0 x16 *SLOT7, 4, 2 only function with selected processors
5	Server motherboard (MB)
6	Power distribution board (PDB)
7	Interposer board (IPB)
8	4 PWM fixed 80x80mm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

3 Front I/O Panel



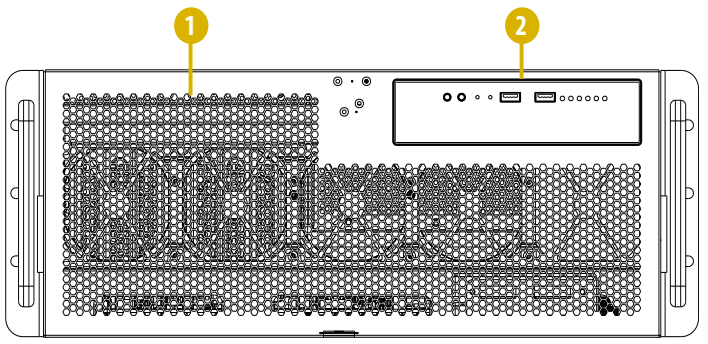
No.	Description
1	1 ID button w/ LED
2	1 Power button w/ LED
3	1 NMI button
4	1 System reset button
5	2 Type-A (USB 3.2 Gen1) ports
6	LAN1 ~ LAN4 activity LEDs
7	1 HDD activity LED
8	1 System event LED

4 Rear I/O Panel



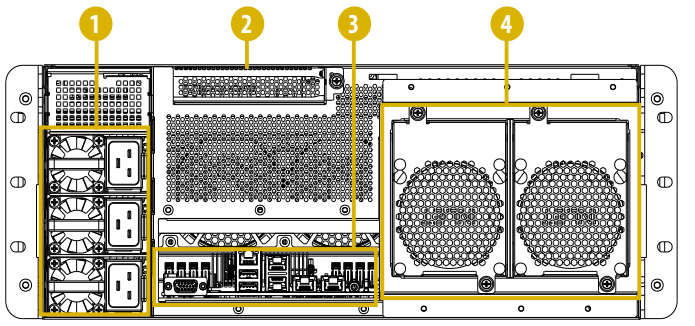
No.	Description
1	1 DB15 (VGA) port
2	**Top:** 1 Dedicated IPMI LAN port **Bottom:** 2 Type-A (USB 3.2 Gen1) ports
3	**Top:** 1 RJ45 (1 GbE) LAN port (LAN4) **Bottom:** 1 RJ45 (1 GbE) LAN port (LAN3)
4	1 RJ45 (10 GbE) LAN port (LAN1)
5	1 RJ45 (10 GbE) LAN port (LAN2)
6	1 ID button w/ LED

5 System Front Panel



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

6 System Rear Panel

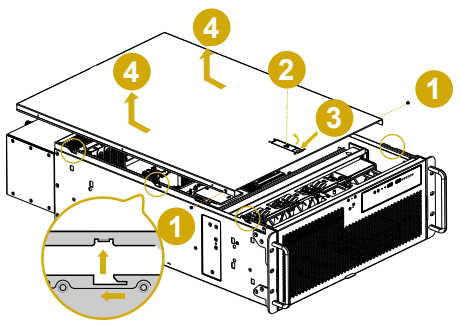


No.	Description
1	2+1 CRPS
2	1 FHFL single-slot PCIe5.0 x8 slot
3	Rear I/O panel (depends on the specification of the server motherboard)
4	2 PWM fixed 80x80mm GPU fans **Internal:** Up to 4 dual-slot or 7 single-slot* FHFL PCIe5.0 x16 *SLOT7, 4, 2 only function with selected processors

7 Server Top Cover

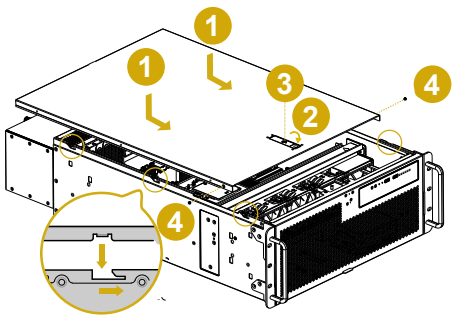
Remove Top Cover

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



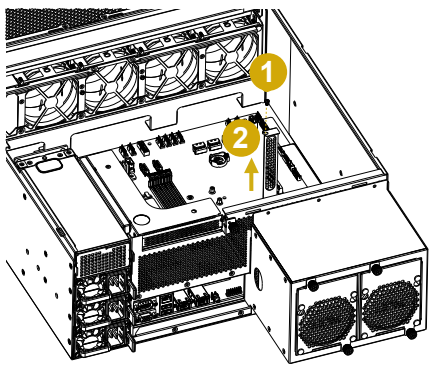
Install Top Cover

1. Lower the top cover on the chassis and 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.

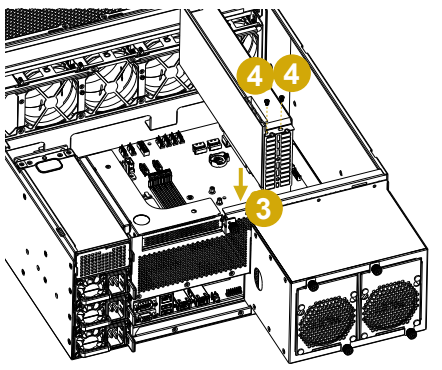


8 Install GPU Card

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

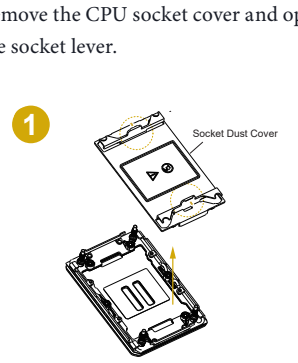


3. Install a GPU card into the slot.
4. Tighten the screws to secure the card to the chassis.

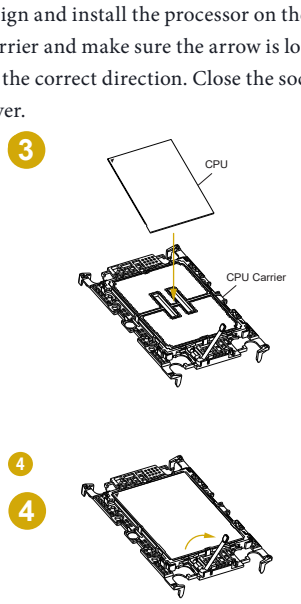


9 Install the CPU and Heatsink (LGA 4710 Socket)

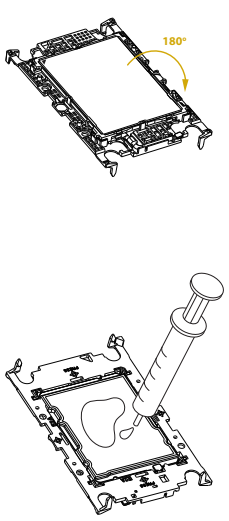
Remove the CPU socket cover and open the socket lever.



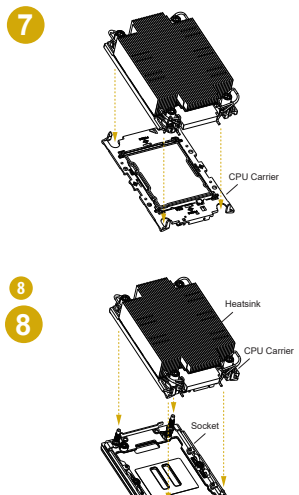
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



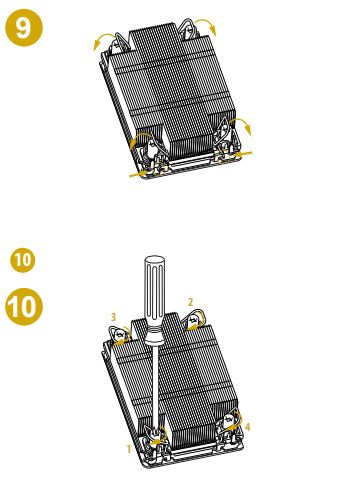
Carefully flip the carrier assembly. Apply a thermal paste.



Install the heatsink to the CPU carrier. Then install the heatsink and CPU carrier to the socket.



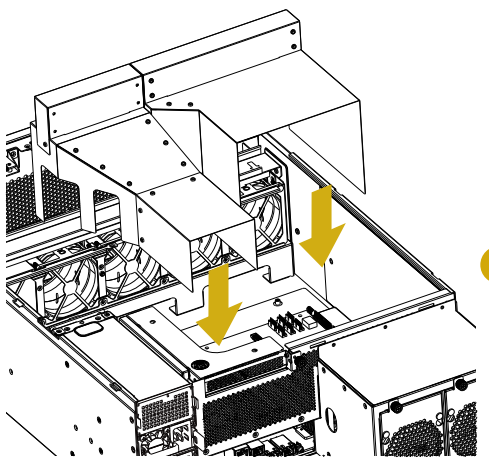
Tighten the corner fasteners. Secure the heastink to the motherboard with a screwdriver.



Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

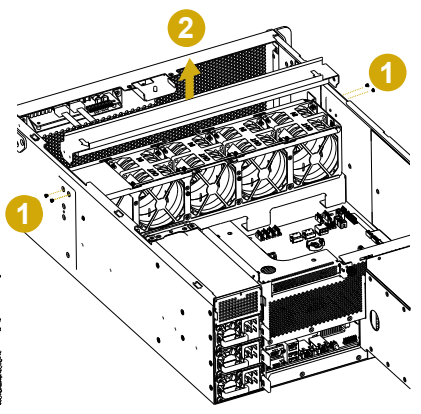
10 Install Air Duct

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

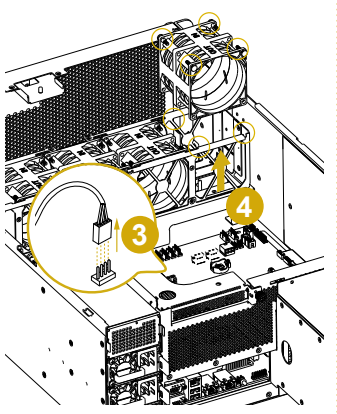


11 Replace Middle Fan

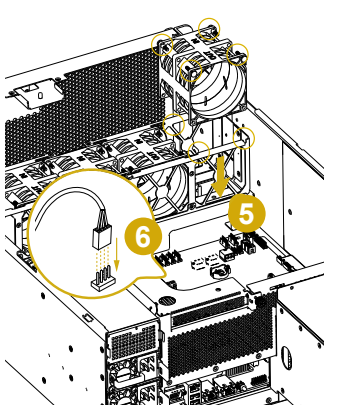
1. Remove the screws securing the fan-retention bracket to the fan cage.
2. Remove the fan-retention bracket from the chassis.



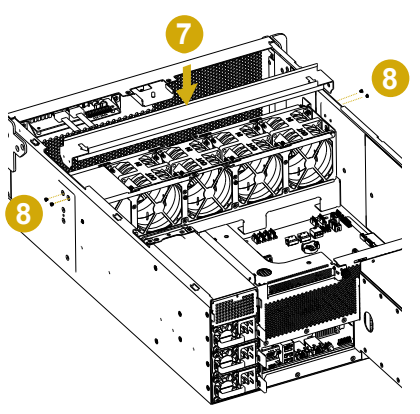
3. Unplug the fan connecter.
4. Remove the failed fan.



5. Gently place the fan on the fan cage. Make sure the fan is well seated.
6. Connect fan cable to connector.

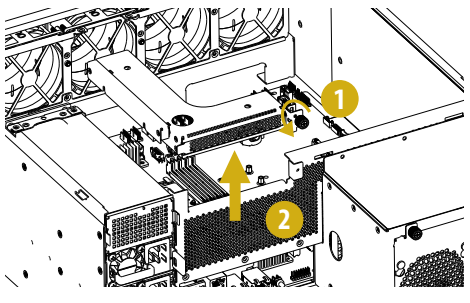


7. Place the fan-retention bracket back on the fan cage.
8. Tighten the screws to secure it to the chassis.

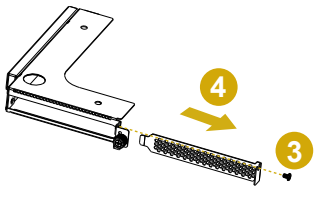


12 Install Add-in Card

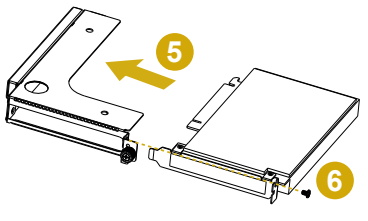
1. Hand-release the thumbscrew securing the bracket.
2. Lift up the bracket.



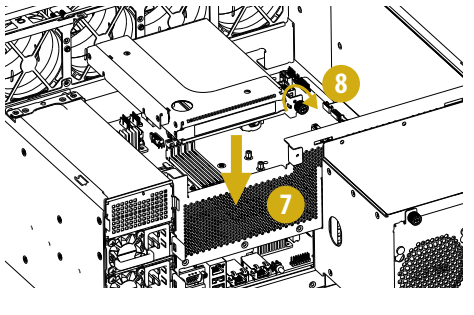
3. Remove the screw securing the blanking plate.
4. Slide the blanking plate out sideways.



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

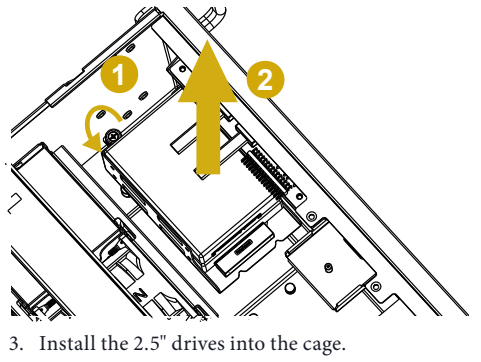


7. Align the add-in card assembly and put it in place.
8. Hand-tighten the thumbscrew.

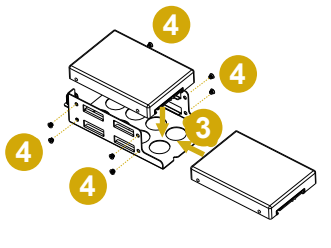


13 Install Drive

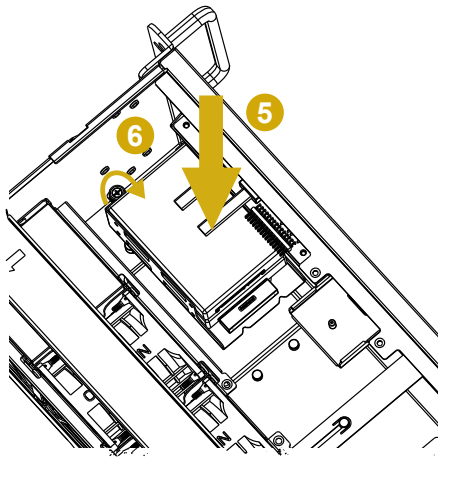
1. Hand-release the thumbscrew securing the drive cage.
2. Remove the drive cage from the chassis.



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



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



**The illustration is for references only. The actual location may be slightly different by models.*