



P/N: 15G065439000AR V1.0

Quick Installation Guide

4U8G-GNR2/SUPER_4L



4U8G-GNR2/SUPER_4L

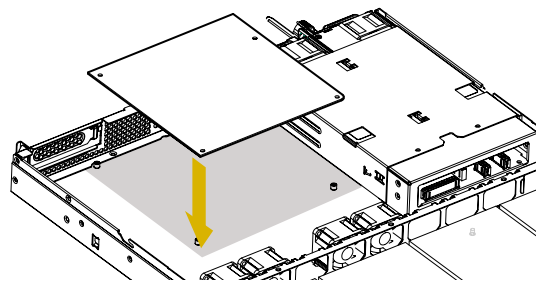
The User Manual is available for download from the ASRock Rack's official website at <https://www.asrockrack.com>.

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

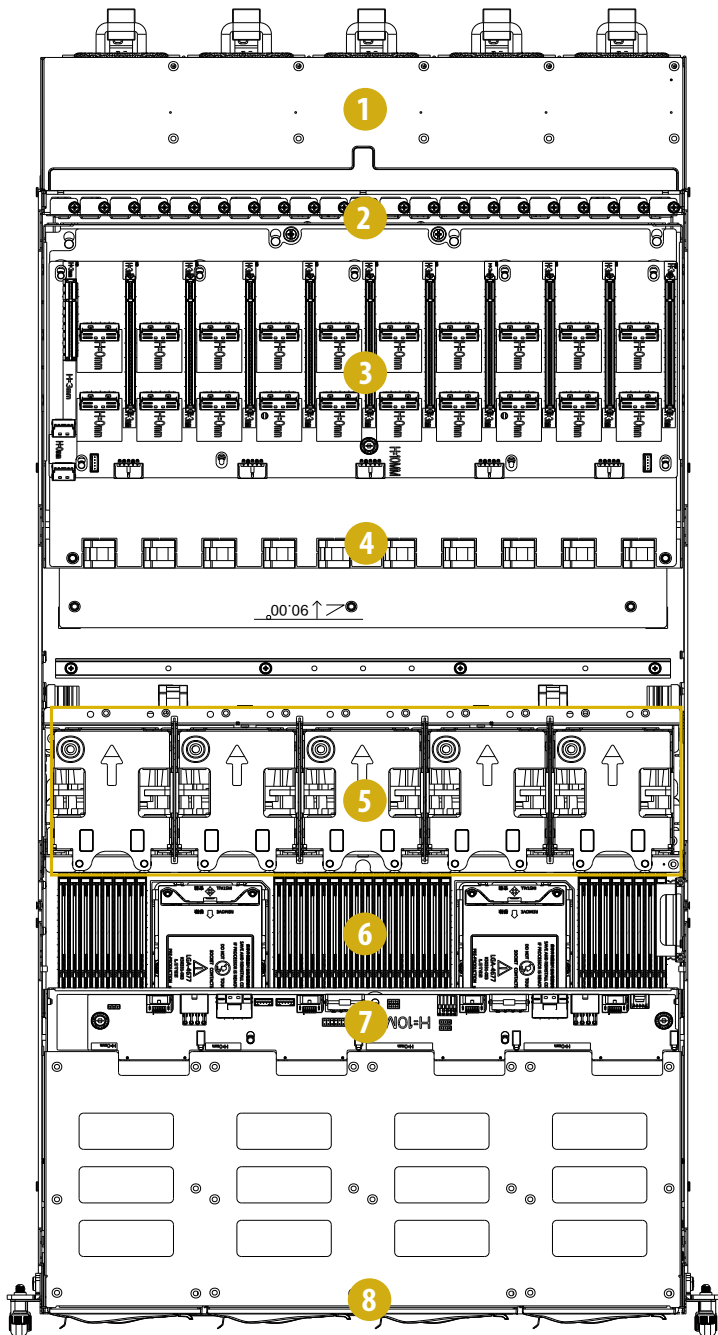
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.
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 Motherboard

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

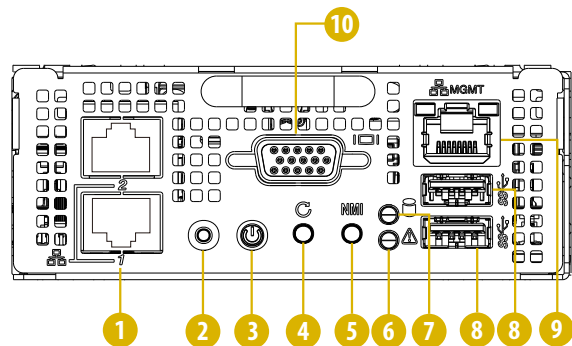


2 Internal Features



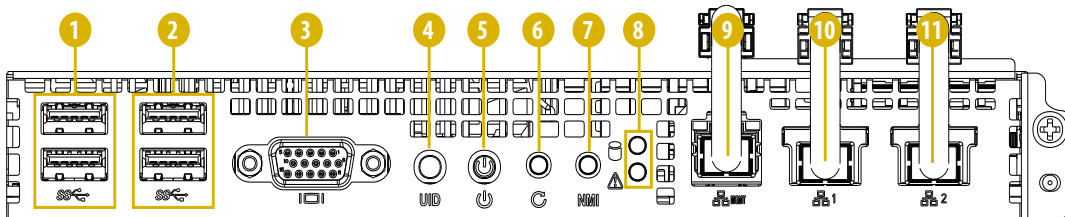
No.	Description
1	5 Rear hot-swap 80 x 80 mm fans (20400/18000 RPM)
2	Top: 8 FHFL dual-slot PCIe5.0 x16 slots for GPU cards 1 FHFL PCIe5.0 x16 slots for add-in card 1 FHHL PCIe5.0 x8 slot for add-in card Bottom: 3+1 CRPS Rear I/O panel
3	Switch board (SWB)
4	Power distribution board (PDB)
5	5 Middle hot-swap 80 x 80 mm fans (20400/18000 RPM)
6	Server motherboard (MB)
7	Hard drive backplane board (BPB)
8	Top: 4 Hot-swap 3.5"/2.5" NVMe (PCIe4.0 x4)/SATA/SAS* drive bays <i>*Additional RAID/HBA card required to support the 4 SATA/SAS drive bays</i> Bottom: Front I/O panel

3 Rear I/O Panel



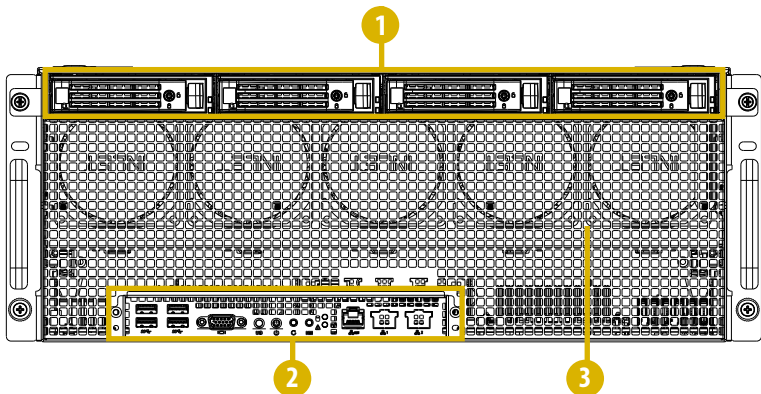
No.	Description
1	2 RJ45 (1 GbE) LAN ports, share with front I/O
2	1 UID button w/ LED
3	1 Power button w/ LED
4	1 Reset button
5	1 NMI button
6	1 System fault LED
7	1 Hard drive activity LED
8	2 Type-A (USB 3.2 Gen1) ports
9	1 Dedicated IPMI LAN port, shares with front I/O
10	1 DB15 (VGA) port

4 Front I/O Panel



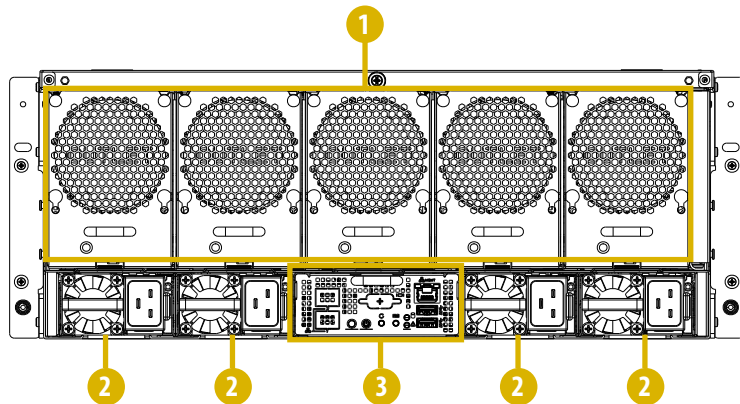
No.	Description	No.	Description
1	2 Type-A (USB 3.2 Gen1) ports	7	1 NMI button
2	2 Type-A (USB 3.2 Gen1) ports	8	Top: 1 Hard drive activity LED Bottom: 1 System fault LED
3	1 DB15 (VGA) port	9	1 Dedicated IPMI LAN port, shares with rear I/O
4	1 UID button w/ LED	10	1 RJ45 (1 GbE) LAN port (LAN1), shares with rear I/O
5	1 Power button w/ LED	11	1 RJ45 (1 GbE) LAN port (LAN2), shares with rear I/O
6	1 Reset button		

5 System Front Panel



No.	Description
1	4 Hot-swap 3.5"/2.5" NVMe (PCIe4.0 x4)/SATA/SAS* drive bays <i>*Additional RAID/HBA card required to support the 4 SATA/SAS drive bays</i>
2	Front I/O panel (depends on the specification of the server motherboard)
3	Front vent

6 System Rear Panel (External)

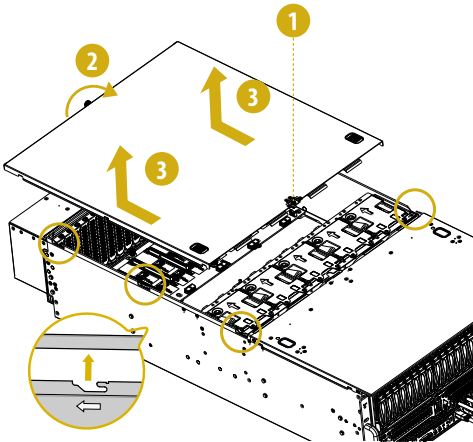


No.	Description
1	5 Rear hot-swap 80 x 80 mm fans (20400/18000 RPM)
2	3+1 CRPS
3	Rear I/O panel

7 Remove Top Cover

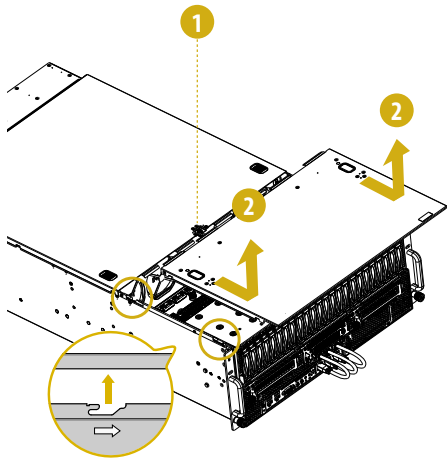
Removing the Server Top Rear Cover

1. Release the spring screw securing the top rear cover to the chassis.
2. Hand-release the thumbscrew on the rear side of the chassis.
3. Press the tabs and push straight REAR to release the cover from the locked position. Lift up and remove the cover.



Removing the Server Top Front Cover

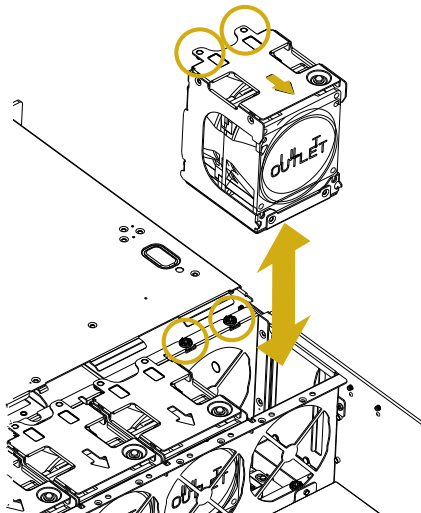
1. Release the spring screw securing the top front cover to the chassis.
2. Push straight FRONT to release the cover from the locked position. Lift up and remove the cover.



8 Replace Fan

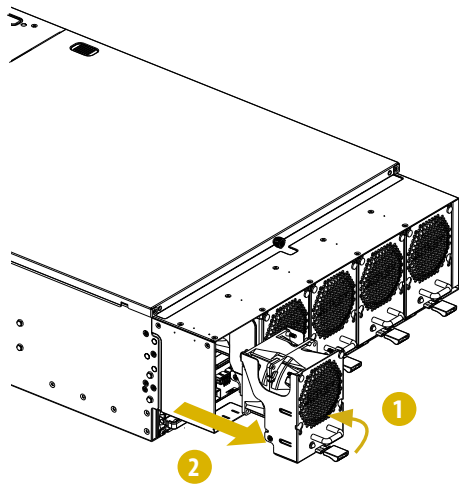
Replacing the Middle Fan

1. Lift to remove the failed fan.
2. Align the mounting holes on the fan corners with the fan mounts on the fan bracket. Make sure the arrow pointed to the REAR.
3. Gently place the fan onto the mounts.



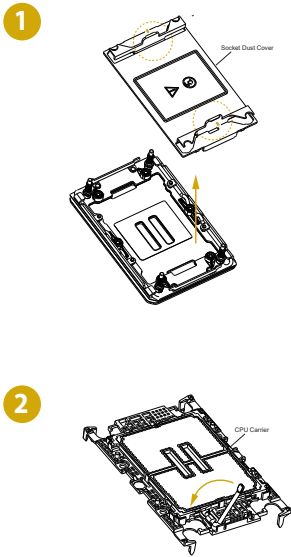
Replacing the Rear Fan

1. Hold onto the fan handle while pressing the locking lever towards the handle.
2. Pull to remove the fan from the chassis.
3. Carefully slide the fan all the way into the fan bay.
4. Make sure the fan clicks in place and is well installed.

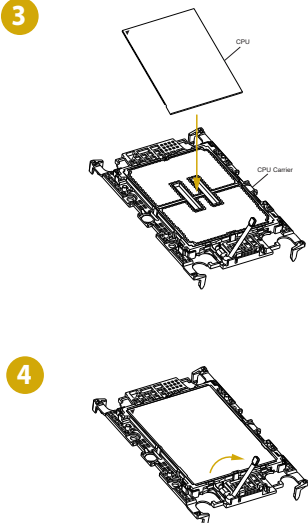


9 Install CPU and Heatsink (LGA 4710 Socket)

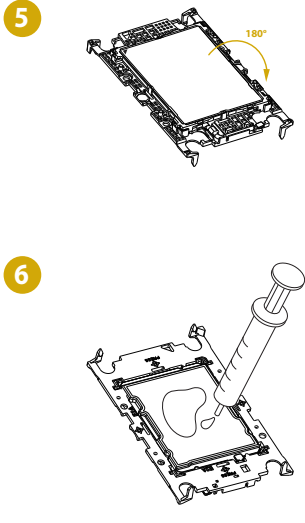
Remove the CPU socket cover and open the socket lever.



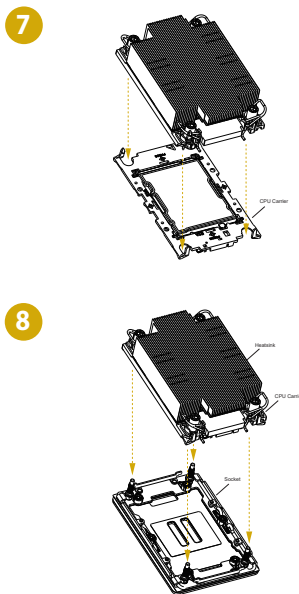
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



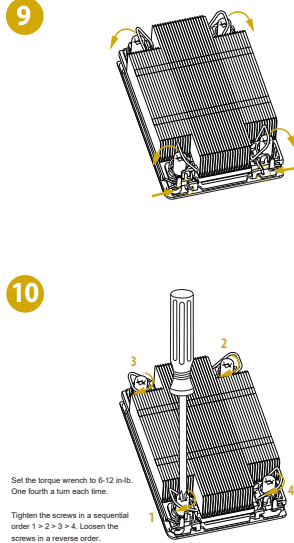
Carefully flip the carrier assembly. Apply a thermal paste.



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



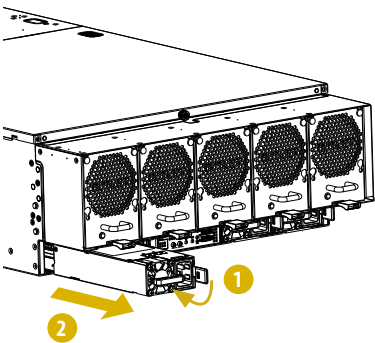
Tighten the corner fasteners. Secure the heatsink to the motherboard with a screwdriver.



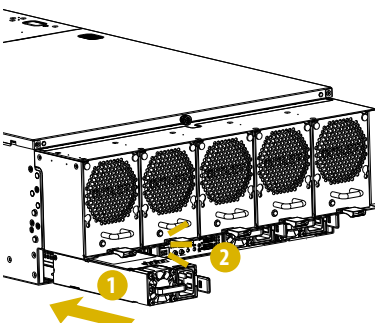
Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

10 Replace PSU

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



1. Carefully slide the PSU all the way into the power supply bay.
2. Make sure the PSU clicks into place and is well installed.

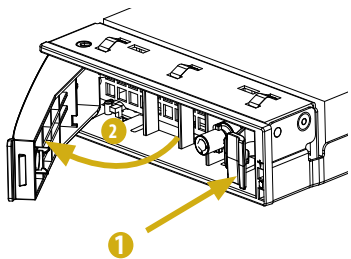


Note: The illustration is for references only. The actual location may be slightly different by models.

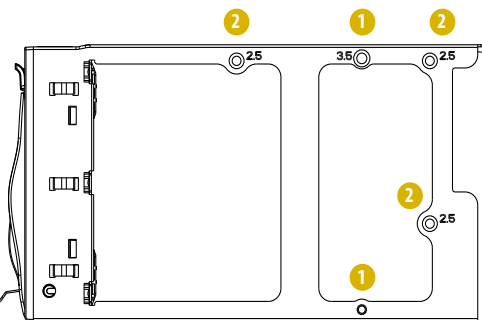
11 Install Hard Drive

Removing Drive Tray from 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 drive tray out of the chassis.



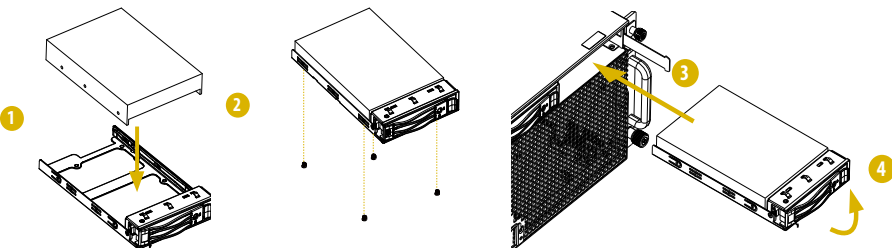
Screw Holes Located on the Drive Tray



No.	Description
1	3.5" Drive tray screw position
2	2.5" Drive tray screw position

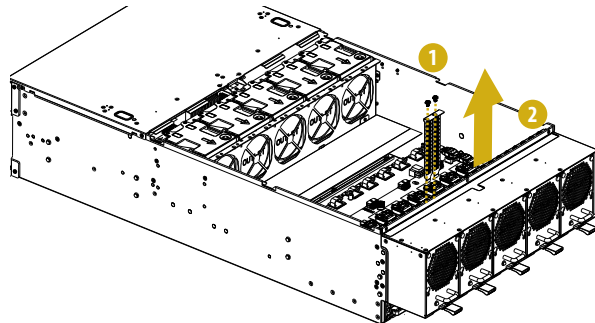
Installing Drive to the Chassis

1. Place the 3.5"/2.5" drive into the drive tray with the printed circuit board side facing down. Carefully align the mounting holes on the drive and the tray.
2. Secure the drive with the screws.
3. Slide the drive assembly into the drive bay until the assembly is fully seated.
4. Push in the locking lever to lock the drive assembly into place.

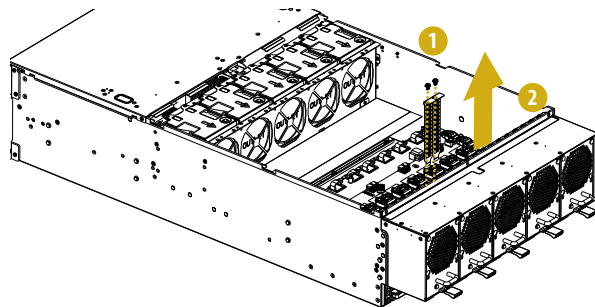


12 Install GPU/Add-In Card

1. Remove the screws on the blanking plates.
Note: It needs to remove only one blanking plate when installing a single-width GPU/add-in card.
2. Slide the blanking plates out from above.



3. Align the slot and insert the GPU/add-in card in place.
4. Secure the card to the chassis with the screw.



5. Depending on the power connector of GPU card, connect the 12V-2x6 cable pre-installed on the switch board or the 8-pin cable in the accessory box to the GPU card. Make sure the connectors click in place for a secure, full connection.