

Quick Installation Guide
1U1G2E-GNR



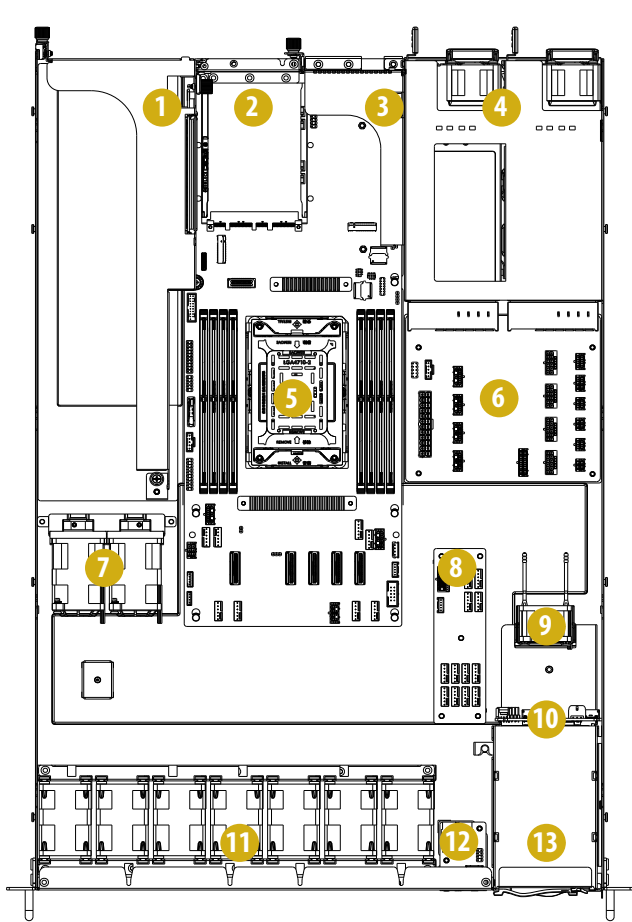
1U1G2E-GNR

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.

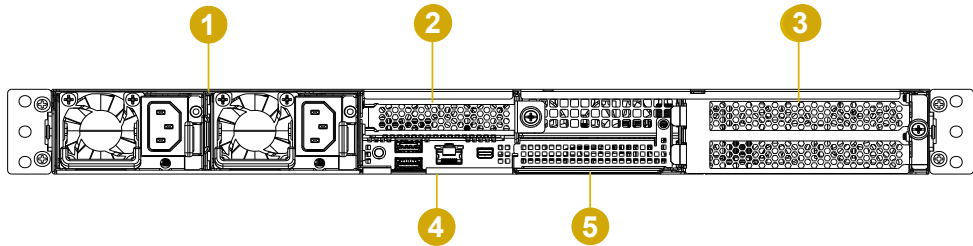
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

2 Internal Features



No.	Description
1	1 FHFL dual-slot PCIe5.0 x16 slots <i>Note: Support 1 GPU and accelerator card up to 600W TDP at 25°C ambient temp. or 300W at 35°C ambient temp.</i>
2	1 OCP NIC 3.0 (PCIe5.0 x16) slot, supports SFF with internal lock
3	1 HHHL single-slot PCIe5.0 x16 slot
4	1+1 CRPS
5	Server motherboard
6	Power distribution board
7	2 Dual-rotor 40 x 56 mm fans (FAN10, FAN9)
8	Fan board
9	1 Single-rotor 40 x 28 mm fan (FAN1)
10	Backplane
11	7 Dual-rotor 40 x 56 mm fans (FAN8 ~ FAN2)
12	Front panel board
13	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays

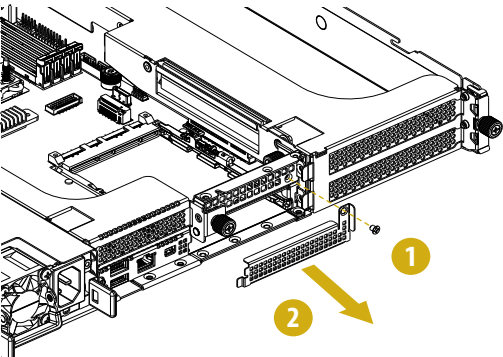
5 System Rear Panel



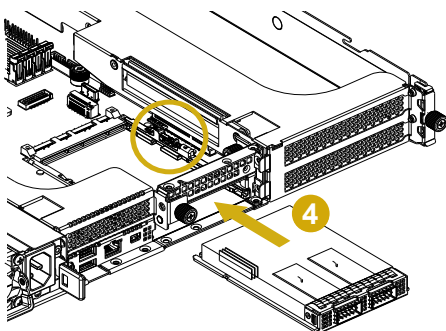
No.	Description
1	1+1 CRPS (PSU1, PSU2)
2	1 HHHL single-slot PCIe5.0 x16 slot
3	1 FHFL dual-slot PCIe5.0 x16 slots
4	Rear I/O panel
5	1 OCP NIC 3.0 (PCIe5.0 x16) slot, supports SFF with internal lock

7 Install OCP Card

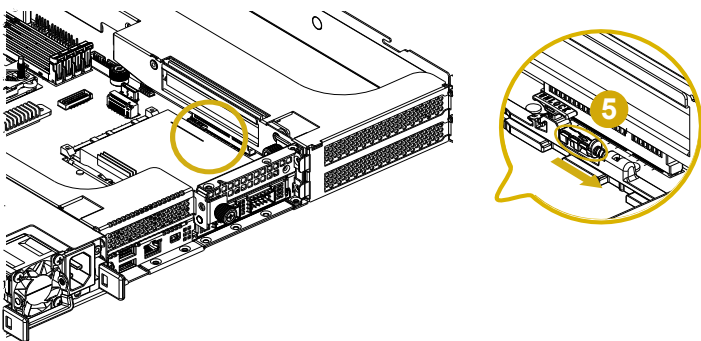
1. Remove the screw securing the slot cover to the chassis.
2. Remove the slot cover.



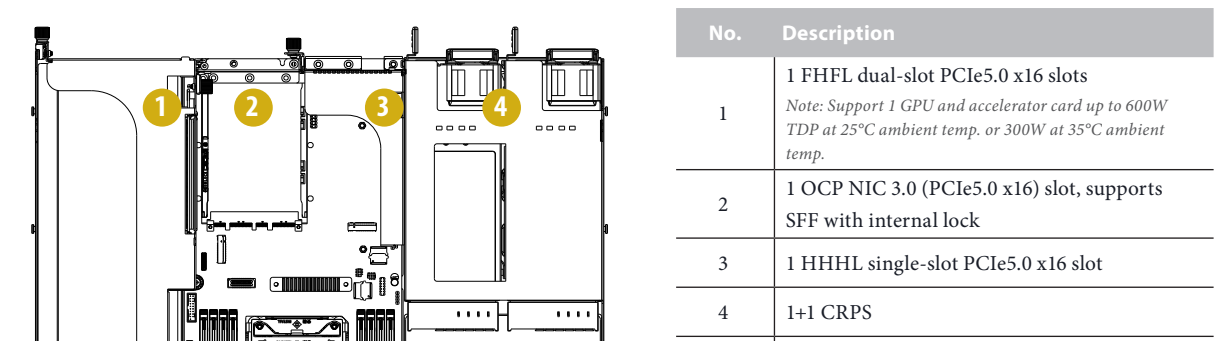
3. Gently pull the blue latch up..
4. Slide the OCP card into the slot until it clicks into place..



5. Pull the green device toward the REAR. The blue latch falls and clamps the OCP card to the chassis.

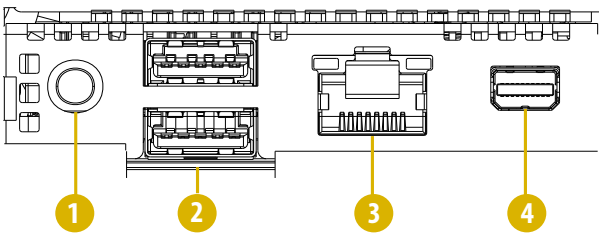


3 Front I/O Panel



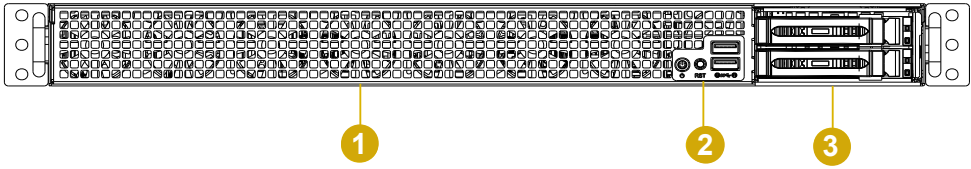
No.	Description
1	2 Type-A (USB 3.2 Gen1) ports
2	1 Power button w/ LED
3	1 Reset button
4	1 System fault LED
5	1 UID LED

4 Rear I/O Panel



No.	Description
1	1 UID button w/ LED
2	2 Type-A (USB 3.2 Gen1) ports
3	1 Dedicated IPMI LAN port
4	1 Mini DisplayPort (VGA, adapter cable required)

6 System Front Panel



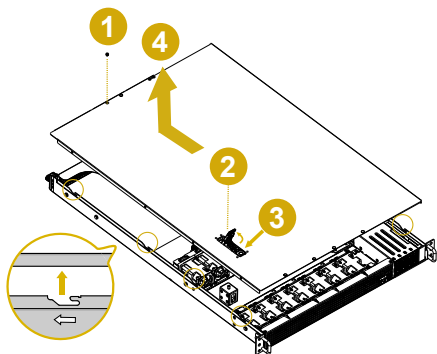
No.	Description
1	Front vent
2	Front I/O panel
3	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays



8 Remove and Install Top Cover

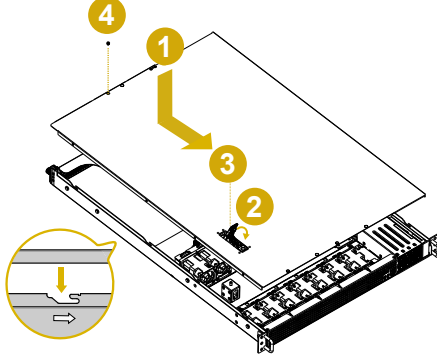
Remove Server Top Cover

1. Remove the screw.
2. Loosen the screw on the locking tab.
3. Press the button to unlock the cover.
4. Push the cover toward the REAR and lift it up.



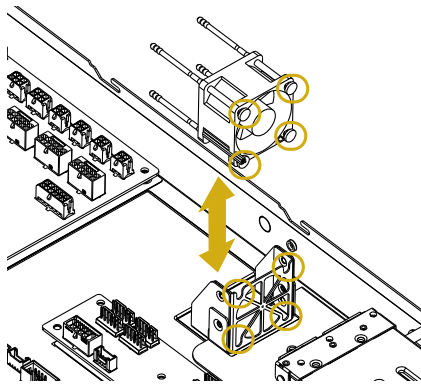
Install Server Top Cover

1. Align cover with the cutouts and slide it to FRONT.
2. Press down the locking tab.
3. Tighten the screw.
4. Secure the cover with the screw.



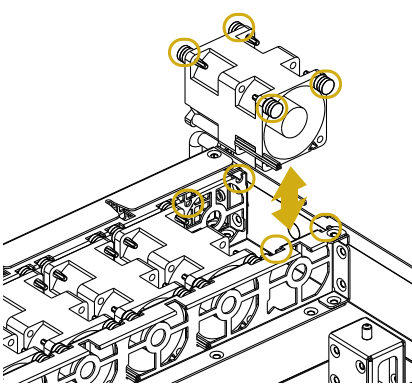
9 Install FAN1

Remove the failed fan. Align the mounting holes on the replacement fan corners with the fan mounts on the fan bracket. Place the fan onto the mounts.



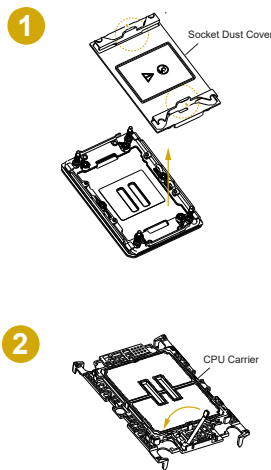
10 Install FAN2 ~ FAN8

Remove the failed fan. Align the mounting holes on the replacement fan corners with the fan mounts on the fan bracket. Place the fan onto the mounts.

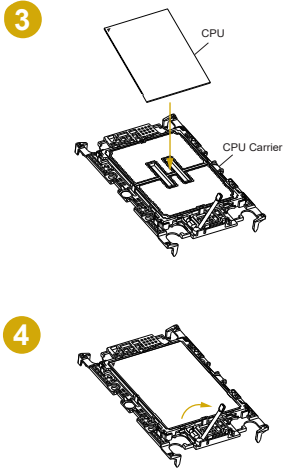


11 Install the CPU and Heatsink (LGA 4710 Socket)

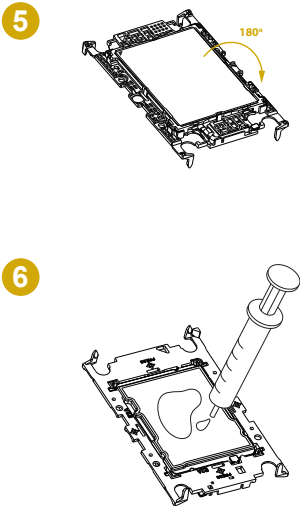
Remove the CPU socket cover and open the socket lever.



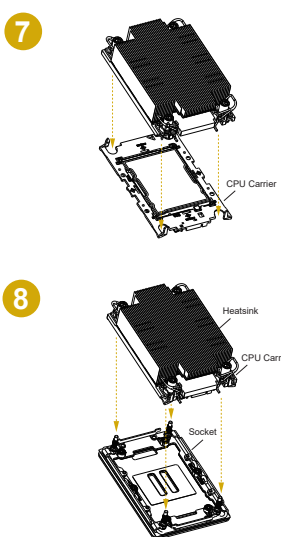
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



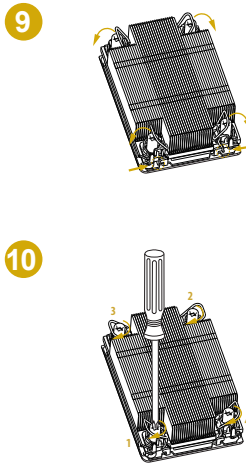
Carefully flip the carrier assembly. Apply a thermal paste.



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



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



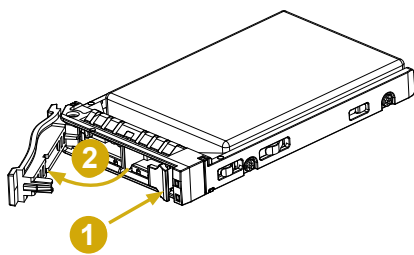
Set the torque wrench to 6-12 in-lb. One fourth a turn each time.
Tighten the screws in a sequential order 1 > 2 > 3 > 4. Loosen the screws in a reverse order.

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

12 Install Drive

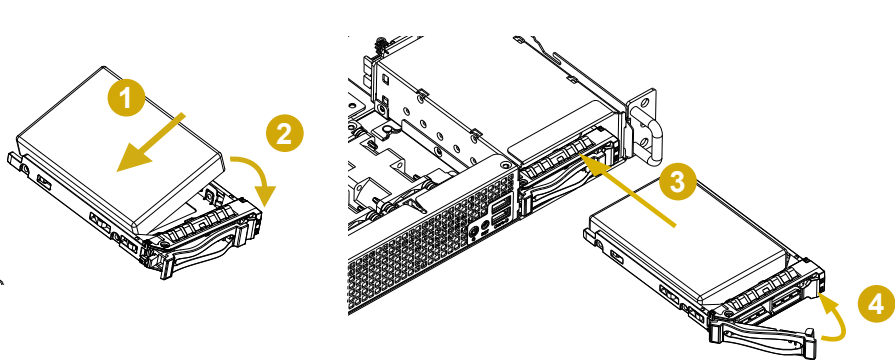
Remove Drive Tray from the Chassis

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 of the chassis.



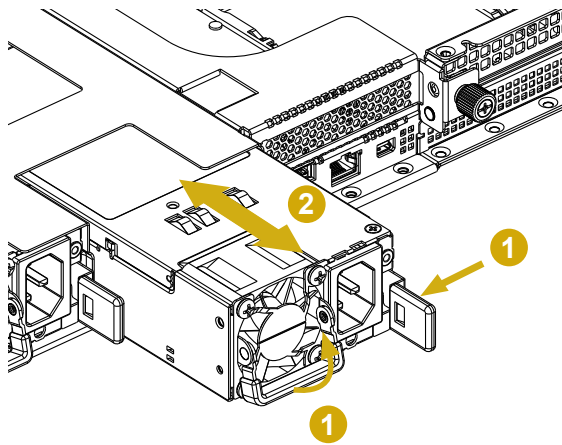
Install Drive to the Chassis

1. Engage two embossed pins into the side dimples on the drive tray.
2. Carefully push down the other side of the drive until the other two embossed pins and side dimples lock in place.
3. Slide the tray into the drive bay until the drive is fully seated.
4. Push in the locking lever to lock the tray in place.



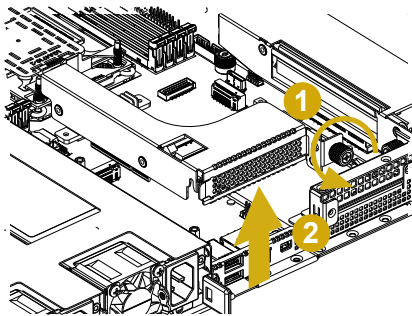
13 Replace PSU

1. Press the lever and hold onto the handle.
2. Pull the PSU out and slide the new one into the place.

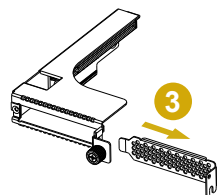


14 Install Add-in Card

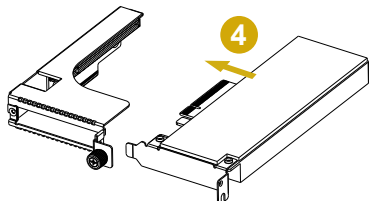
1. Hand-release the thumbscrew.
2. Remove the bracket from the chassis.



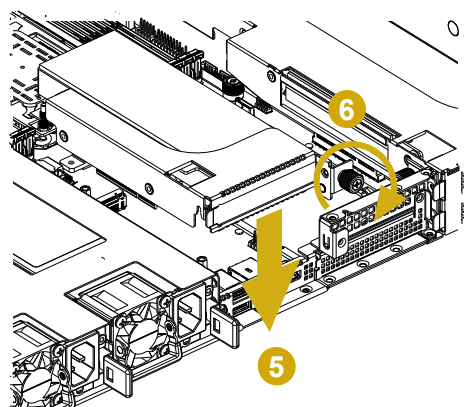
3. Slide the blanking plate out sideways.



4. Install and add-in card to the bracket.



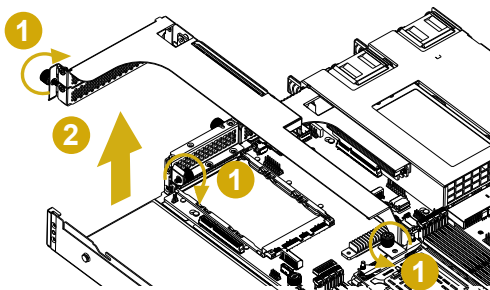
5. Align and place the assembly on the chassis.
6. Hand-tighten the thumbscrew.



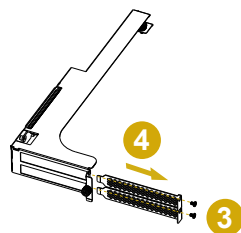
Note: The illustration is for references only. The actual location may be slightly different by models.

15 Install GPU Card

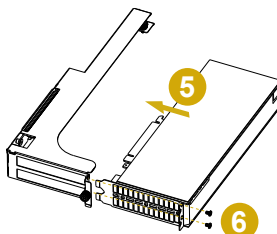
1. Hand-release 3 thumbscrews securing the bracket.
2. Remove the bracket from the chassis.



3. Remove the screws securing the blanking plates.
4. Slide the blanking plates out sideways.



5. Install the GPU card to the bracket.
6. Tighten the screws.



7. Align and place the assembly on the chassis.
8. Hand-tighten 3 thumbscrews.

