



P/N: 15G065320000AR V1.0

Quick Installation Guide
2U4G-GENOA/M3



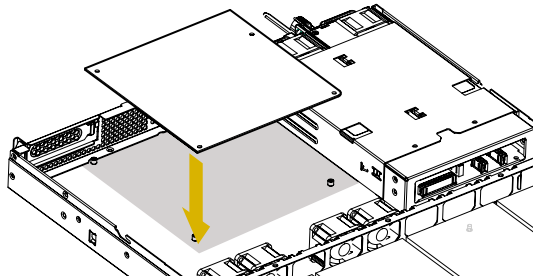
The User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

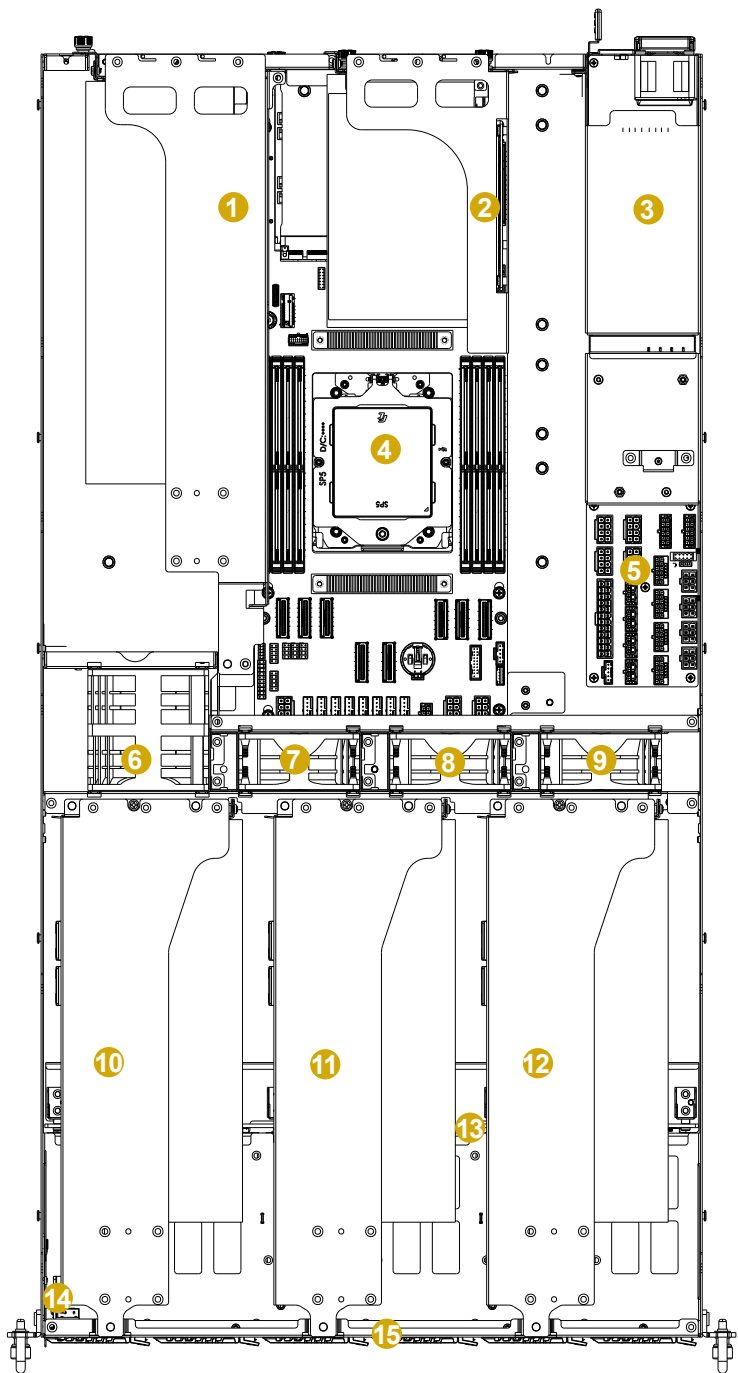
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

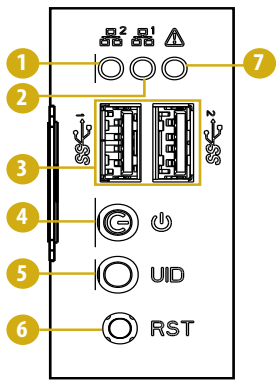


2 Internal Features



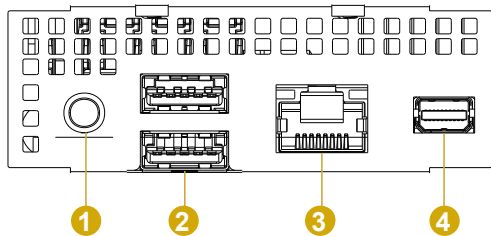
No.	Description
1	Dual-slot PCIe5.0 x16 (FHFL) (Riser-card 1)
2	Single-slot PCIe5.0 x16 (FHHL) (Riser-card 2)
3	1+1 CRPS
4	Server board
5	Power distribution board (PDB)
6	System fan 80x80mm (FAN4)
7	System fan 80x38mm (FAN3)
8	System fan 80x38mm (FAN2)
9	System fan 80x38mm (FAN1)
10	Dual-slot PCIe5.0 x16 (FHFL) (Riser-card 3)
11	Dual-slot PCIe5.0 x16 (FHFL) (Riser-card 4)
12	Dual-slot PCIe5.0 x16 (FHFL) (Riser-card 5)
13	Back panel board
14	2U4G-FPB (front panel board)
15	4 Hot-swap 2.5" NVMe drive bays 2 Hot-swap 2.5" SATA drive bays

3 Front I/O Panel



No.	Description
1	LAN2 activity LED
2	LAN1 activity LED
3	2 Type-A (USB3.0)
4	Power button w/ LED
5	UID button w/ LED
6	System reset button
7	System fault LED

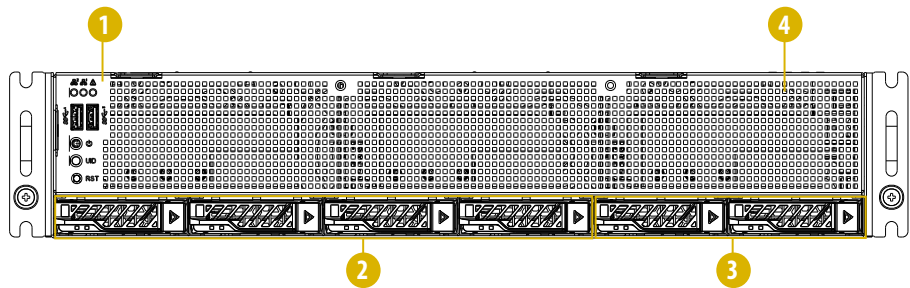
4 Rear I/O Panel



No.	Description
1	UID button w/ LED
2	2 Type-A (USB3.2 Gen1) ports (USB3_1_2)

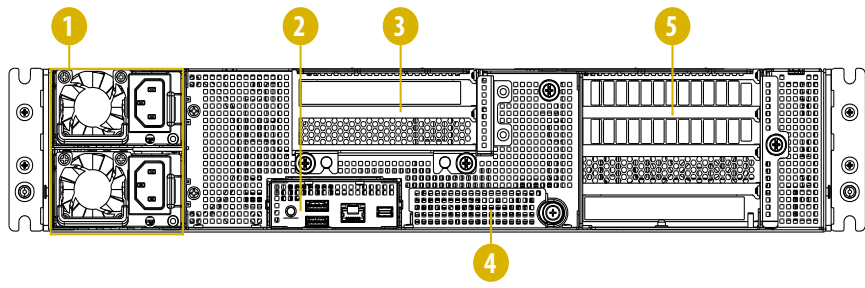
No.	Description
3	Dedicated IPMI LAN port (IPMI_LAN1)
4	Mini DisplayPort (VGA1)

5 System Front Panel



No.	Description
1	Front I/O panel
2	4 Hot-swap 2.5" NVMe drive bays
3	2 Hot-swap 2.5" SATA drive bays
4	Front vent

6 System Rear Panel

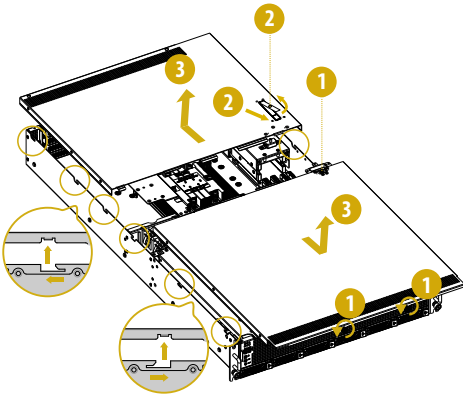


No.	Description
1	1+1 CRPS
2	Rear I/O panel (depends on the specification of the server board)
3	Single-slot PCIe5.0 x16 (FHHL) (Riser-card 2)
4	1 OCP NIC 3.0 (PCIe5.0 x16)
5	Dual-slot PCIe5.0 x16 (FHFL) (Riser-card 1)



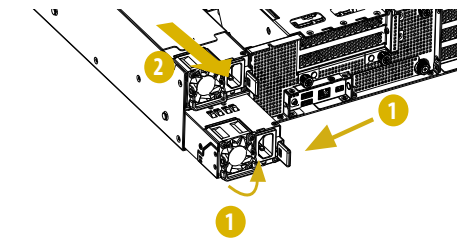
7 Remove Top Cover

1. Remove the screw and hand-release the thumbscrews on the front top cover.
2. Loosen the screw and press the latch button on the rear top cover.
3. Push to open the front and rear top covers.

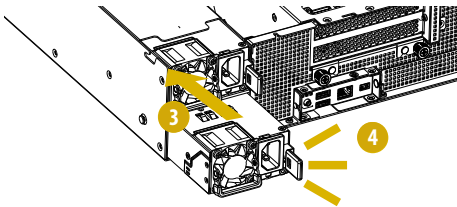


8 Replace Power Supply Unit

1. Hold on the power supply handle while pressing the locking lever towards the power supply handle.
2. Pull to remove the power supply unit out.

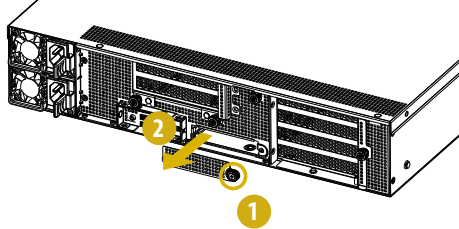


3. Slide a new PSU into the power supply bay.
4. Make sure the PSU clicks into place and is well installed.

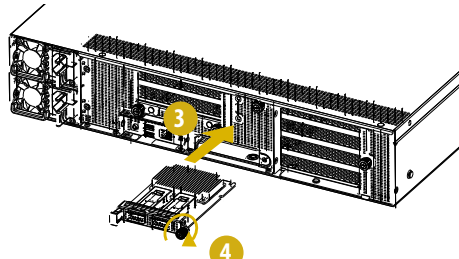


9 Install OCP Card

1. Loosen the thumbscrew securing the slot cover to the chassis.
2. Remove the slot cover.

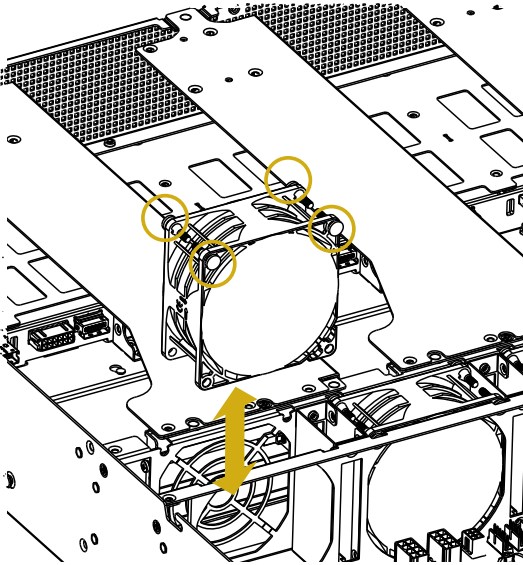


3. Install the OCP card into the slot.
4. Make sure the card is well seated and hand-tighten the thumbscrew on the face plate.



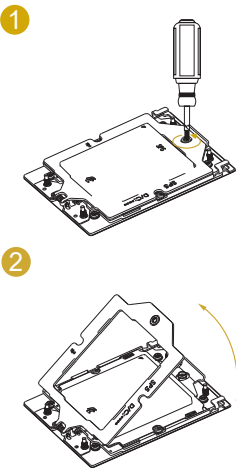
10 Replace Fan

1. Lift to remove the failed fan.
2. Align the mounting holes on the replacement fan corners with the fan mounts on the fan bracket.
3. Place the fan onto the mounts.
4. Make sure the fan is well seated.

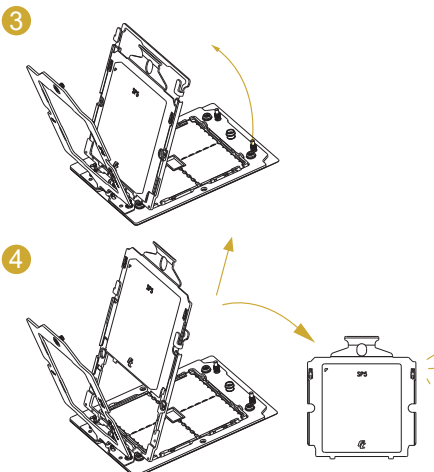


11 Install CPU and Heatsink (LGA6096 Socket)

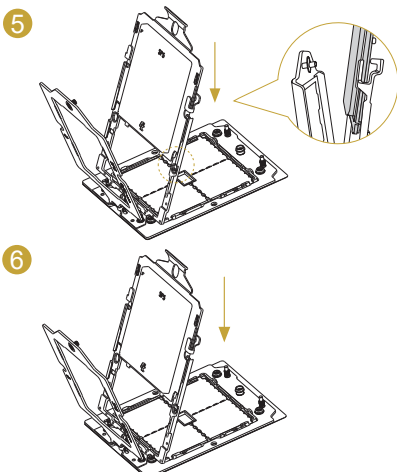
Locate the screw on the CPU socket and unscrew it.
Open the first retention cover.



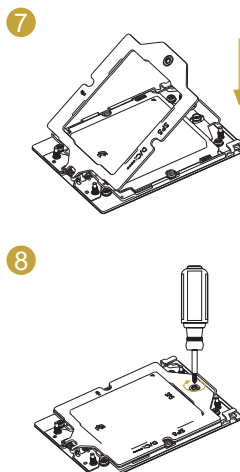
Open the second bracket. Take out the internal plastic cover.



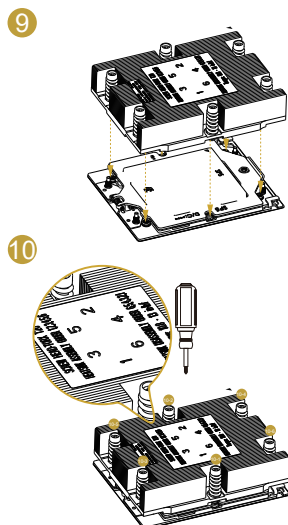
Install CPU along with the carrier frame. Do not separate them. Make sure the carrier frame with CPU is closely attached to the rail frame while inserting it



Close the bracket that holds the CPU.
Close the retention cover and fasten the screw.



Install the heatsink to the CPU carrier.
Secure the heatsink to the CPU carrier with a screwdriver.

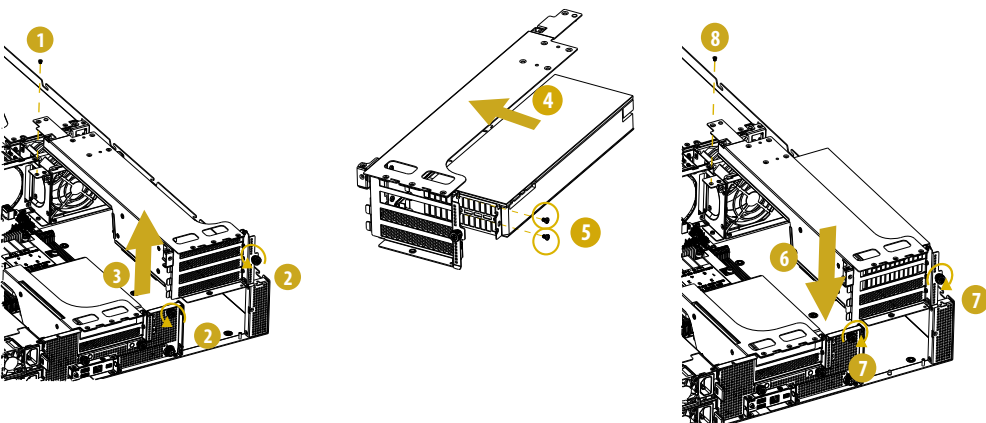


Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

12 Install Riser-card

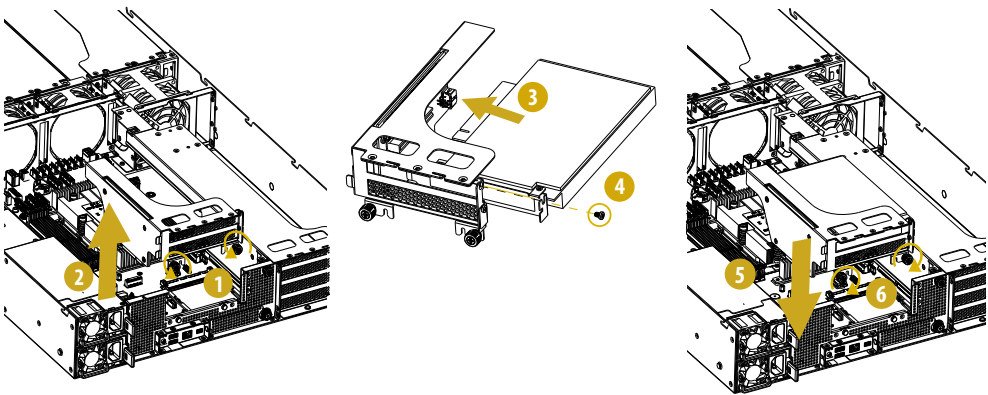
Riser-card 1

1. Remove the screw securing the riser-card bracket to the chassis.
2. Hand-release the thumbscrews on the bracket.
3. Push upward to remove the bracket from the chassis.
4. Remove the blanking plates and install the add-in card to the bracket.
5. Tighten the screws on the bracket.
6. Align the add-in card assembly with the opening of the chassis and place it into the chassis.
7. Hand-tighten the thumbscrews on the bracket.
8. Tighten the screw to fix the assembly in place.



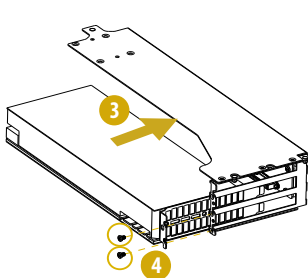
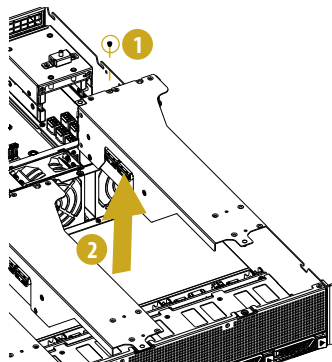
Riser-card 2

1. Hand-release the thumbscrews securing the riser-card bracket to the chassis.
2. Push upward to remove the bracket from the chassis.
3. Remove the blanking plate and install the add-in card to the bracket.
4. Tighten the screw on the bracket.
5. Align the add-in card assembly with the opening of the chassis and place it into the chassis.
6. Hand-tighten the thumbscrews to fix the assembly in place.

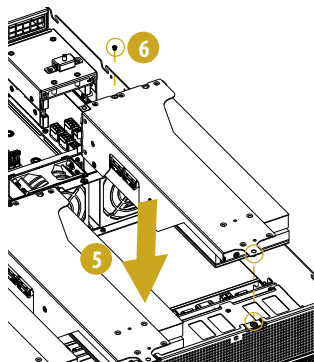


Riser-cards 3, 4 and 5

1. Remove the screw securing the riser-card bracket to the chassis.
2. Push upward to remove the bracket from the chassis.
3. Remove the blanking plates and install the add-in card to the bracket.
4. Tighten the screws on the bracket.



5. Align the add-in card assembly with the opening of the chassis and place it into the chassis.
6. Tighten the screw to fix the assembly in place.



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