P/N: 15G065304000AR V1.0

Quick Installation Guide

4U8G-GENOA2

www.asrockrack.com

4U8G-GENOA2

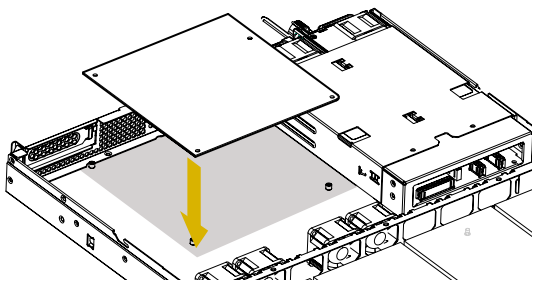
The User's Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

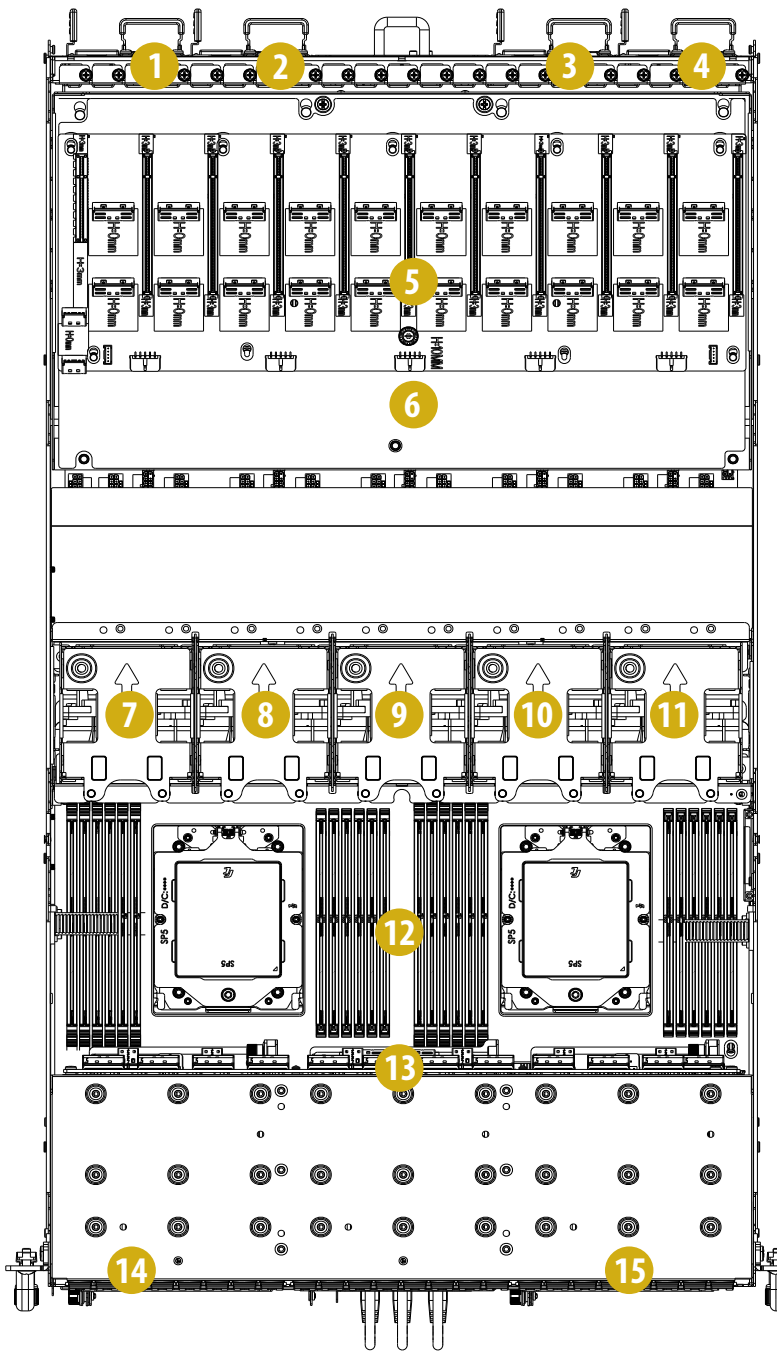
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

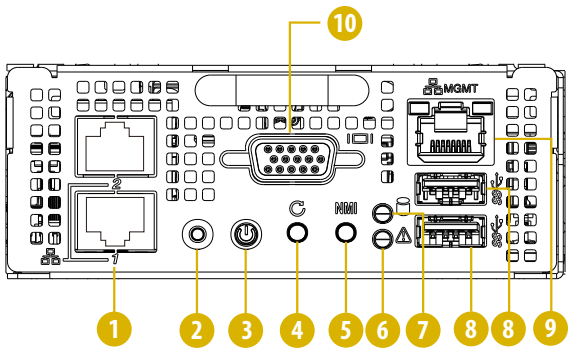


2 Internal Features



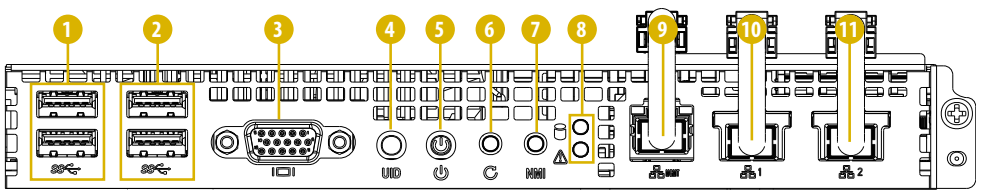
No.	Description
1	Common redundant power supply 1
2	Common redundant power supply 2
3	Common redundant power supply 3
4	Common redundant power supply 4
5	Switch board (SWB)
6	Power distribution board (PDB)
7	System fan 1
8	System fan 2
9	System fan 3
10	System fan 4
11	System fan 5
12	Server board
13	Hard drive backplane board (BPB)
14	4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
15	20 Hot-swap 2.5" SATA/SAS* drive bays **Additional RAID/HBA card required to support the 20 2.5" SATA/SAS drive bays*

3 Rear I/O Panel



No.	Description
1	2 RJ45 (1GbE) by Intel® i350, share with front panel
2	UID button w/ LED
3	Power button w/ LED
4	System reset button
5	NMI button
6	System fault LED
7	Hard drive activity LED
8	2 Type-A (USB3.2 Gen1)
9	1 Dedicated IPMI, shares with front panel
10	1 DB15 (VGA)

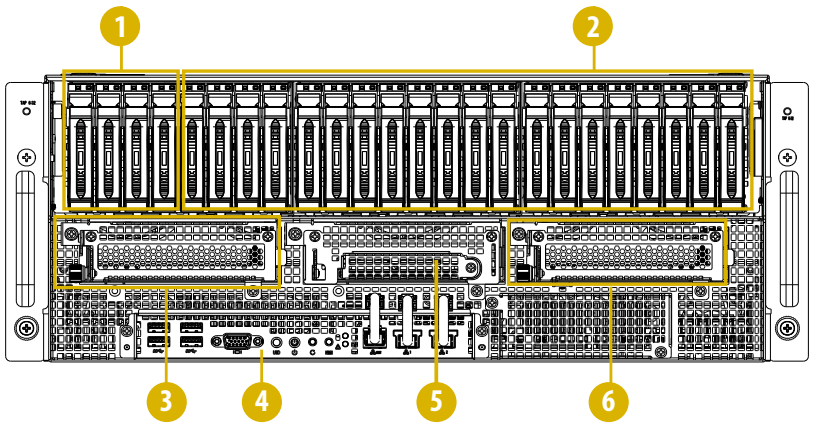
4 Front I/O Panel



No.	Description
1	2 Type-A (USB3.2 Gen1)
2	2 Type-A (USB3.2 Gen1)
3	DB15 (VGA)
4	UID button w/ LED
5	Power button w/ LED
6	Reset button

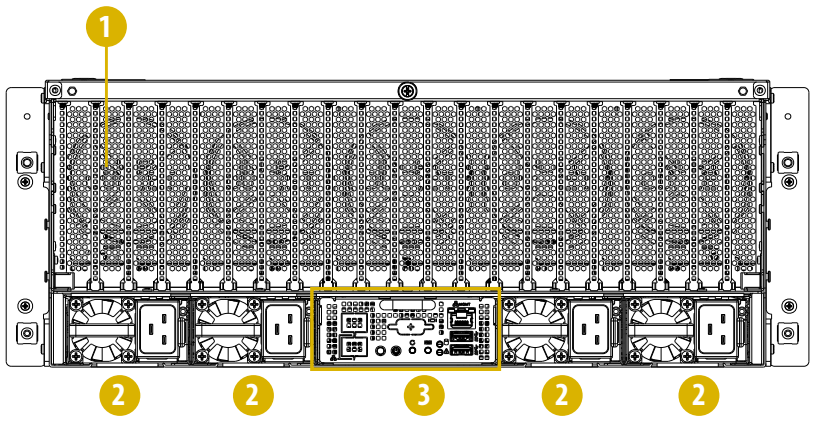
No.	Description
7	NMI button
8	**Upper:** Hard drive activity LED **Lower:** System fault LED
9	Dedicated IPMI LAN port, shares with rear I/O
10	RJ45 (1GbE) LAN port (LAN1), shares with rear I/O
11	RJ45 (1GbE) LAN port (LAN2), shares with rear I/O

5 System Front Panel



No.	Description
1	4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
2	20 Hot-swap 2.5" SATA/SAS* drive bays **Additional RAID/HBA card required to support the 20 2.5" SATA/SAS drive bays*
3	1 Reserved add-in card slot (PCIe FHHL)
4	Front I/O panel (depends on the specification of the server board)
5	1 OCP NIC 3.0 (PCIe5.0 x8) slot
6	1 FHHL PCIe5.0 x8 slot

6 System Rear Panel

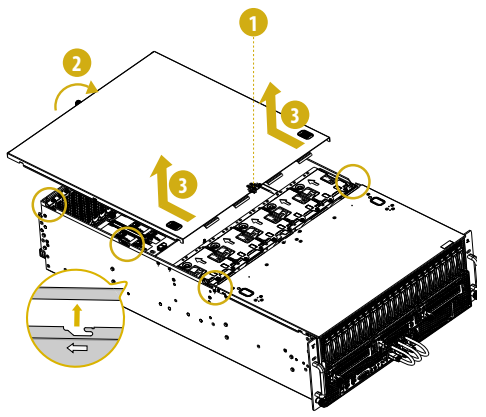


No.	Description
1	Rear vent
2	3+1 CRPS
3	Rear I/O panel

7 Remove Top Cover

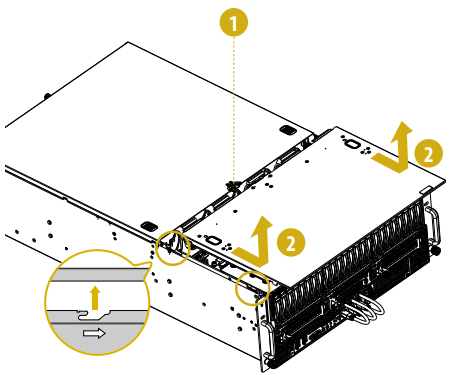
Removing the Server Top Rear Cover

1. Remove the screw secureing 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.



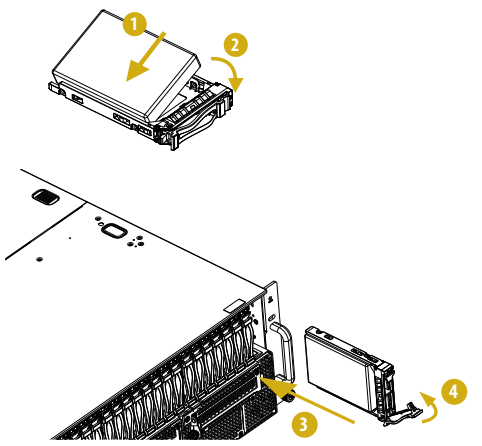
Removing the Server Top Front Cover

1. Remove the 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.



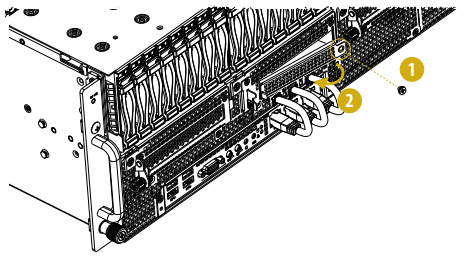
8 Install Hard Drive

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

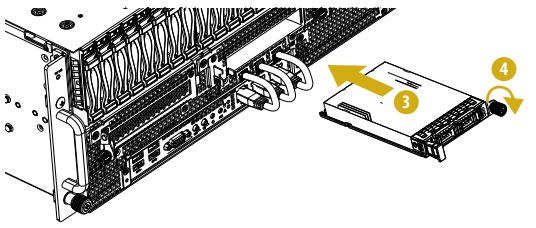


9 Install OCP Card

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

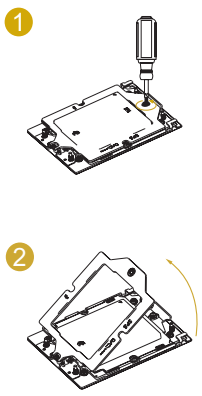


3. Install the OCP card into the slot.
4. Make sure the card is well seated and hand-tighten the thumbscrew on the face plate.

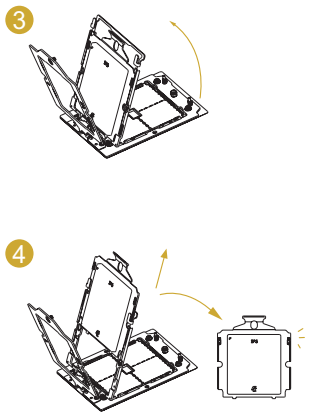


10 Install CPU and Heatsink (LGA6096 Socket)

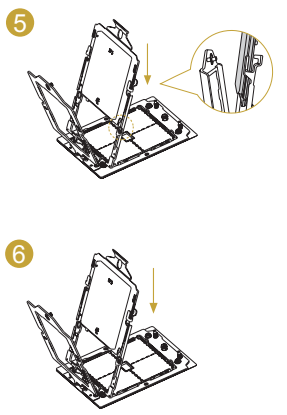
1. Locate the screw on the CPU socket and unscrew it. Open the first retention cover.



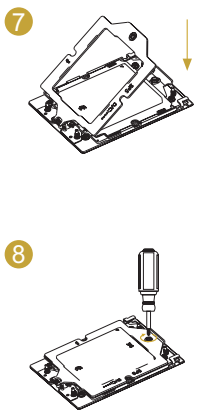
2. Open the second bracket. Take out the internal plastic cover.



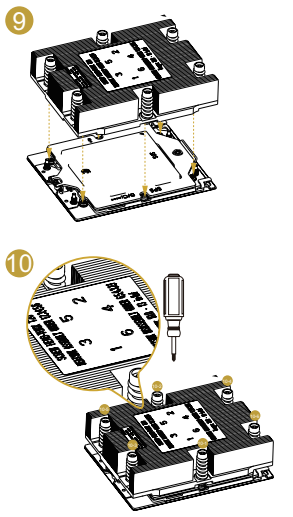
3. Install CPU along with the carrier frame. Do not separate them. Make sure the carrier frame with CPU is closely attached to the rail frame while inserting it



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



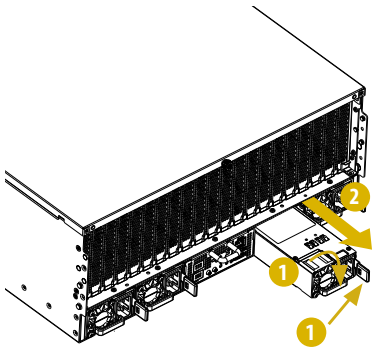
5. Install the heatsink to the CPU carrier. Secure the heastink to the CPU carrier with a screwdriver.



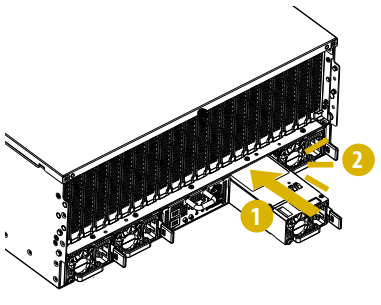
We recommend using the CPU Installation tool to avoid CPU pin-bent problem.

11 Replace Power Supply

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.

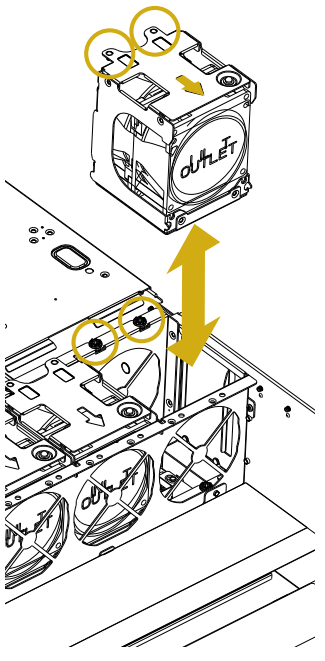


1. Carefully slide the power supply unit all the way into the power supply bay.
2. Make sure the power supply unit clicks into place and is well installed.



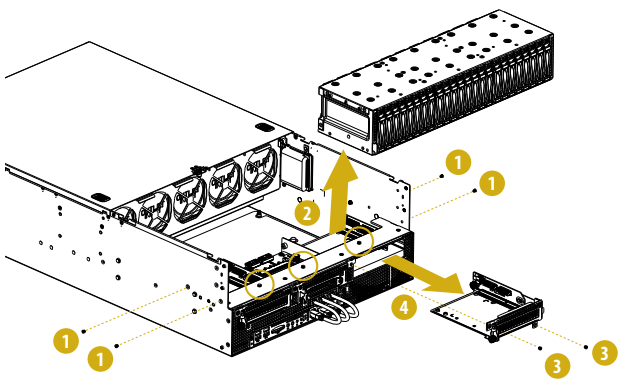
12 Replace Fan

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. Make sure the arrow on the fan pointed to the REAR of the chassis.
4. Gently place the fan onto the mounts.
5. Make sure the fan is well seated.

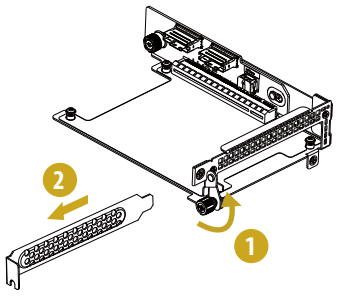


13 Install Add-In Card

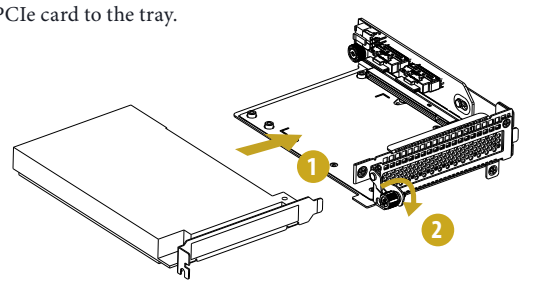
1. Remove the screws securing the hard drive frame to the chassis.
2. Lift up and remove the frame.
3. Remove the screws on the riser-card tray.
4. Pull to remove the tray from the chassis.



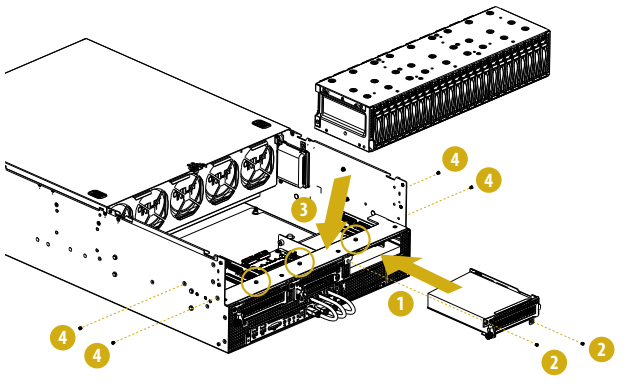
1. Hand-release the thumbscrew securing the blanking plate to the tray. Pull up the latch.
2. Slide the blanking plate out sideways.



1. Place a PCIe add-in card in the tray. Make sure the PCIe card is correctly seated.
2. Pull down the latch. Hand-tighten the thumbscrew to secure the PCIe card to the tray.



1. Insert the add-in card assembly into the bay.
2. Tighten the screws to secure the assembly to the chassis.
3. Align the fixed position and place the hard drive frame.
4. Tighten the screws on both sides to secure the frame to the chassis.



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