P/N: 15G065321000AR V1.0

Quick Installation Guide

4U8G-EGS2

www.asrockrack.com

4U8G-EGS2

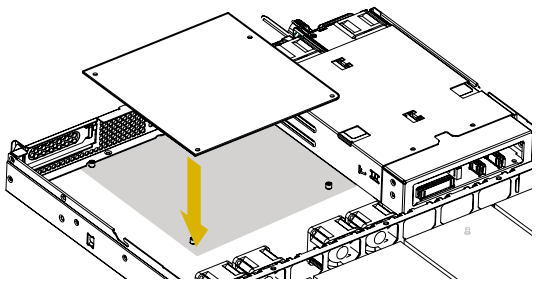
The User's Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

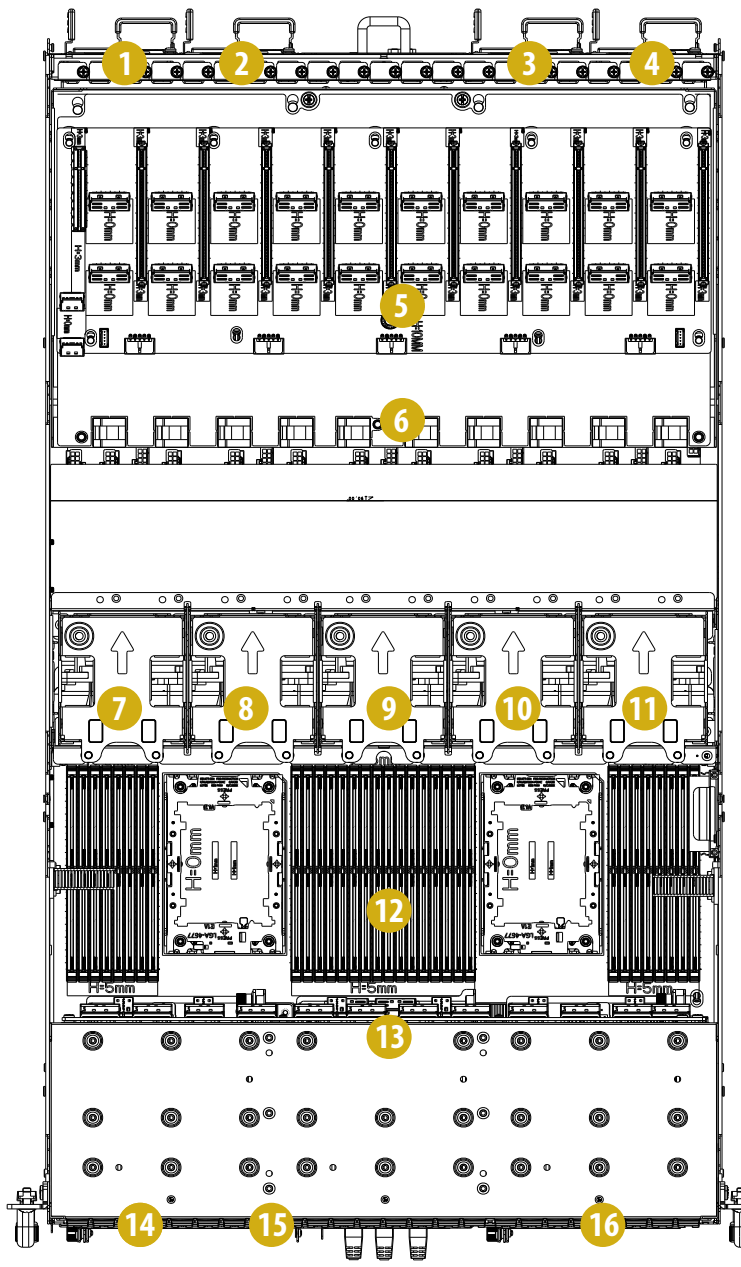
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

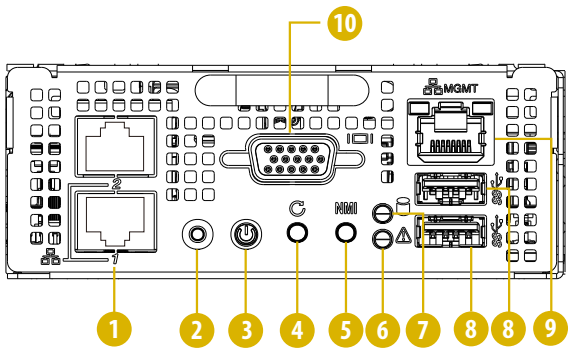


2 Internal Features



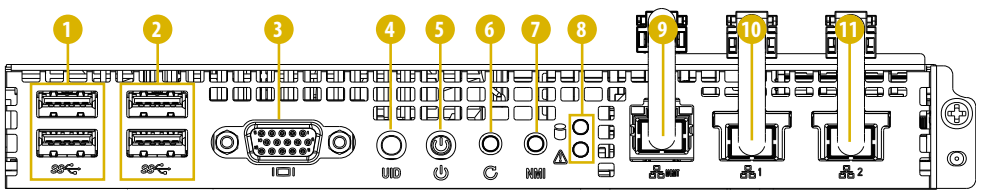
No.	Description
1	Common redundant power supply 1
2	Common redundant power supply 2
3	Common redundant power supply 3
4	Common redundant power supply 4
5	Switch board (SWB)
6	Power distribution board (PDB)
7	System fan 1
8	System fan 2
9	System fan 3
10	System fan 4
11	System fan 5
12	Server motherboard
13	Hard drive backplane board (BPB)
14	4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [CPU1]
15	8 Hot-Swap 2.5" SATA drive bays [PCH]
16	12 Hot-swap 2.5" SATA/SAS* drive bays **Additional RAID/HBA card required to support the 12 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	Reset button
5	NMI button
6	System fault LED
7	Hard drive activity LED
8	2 Type-A (USB3.2 Gen1) ports
9	Dedicated IPMI LAN port, shares with front panel
10	DB15 (VGA) port

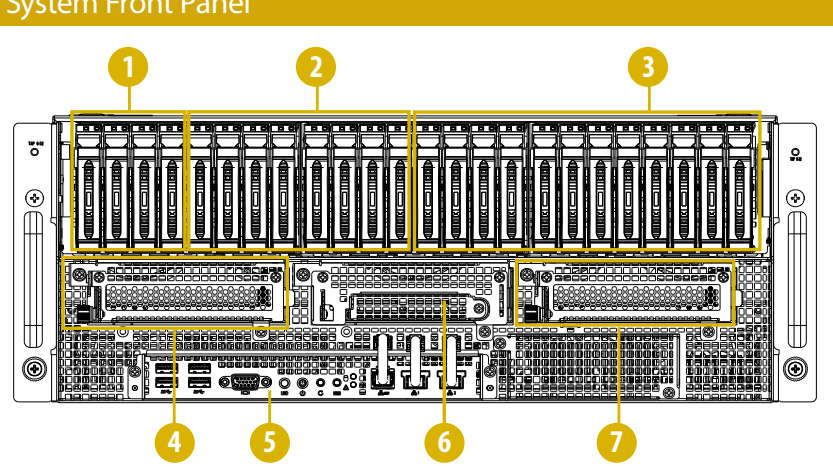
4 Front I/O Panel



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

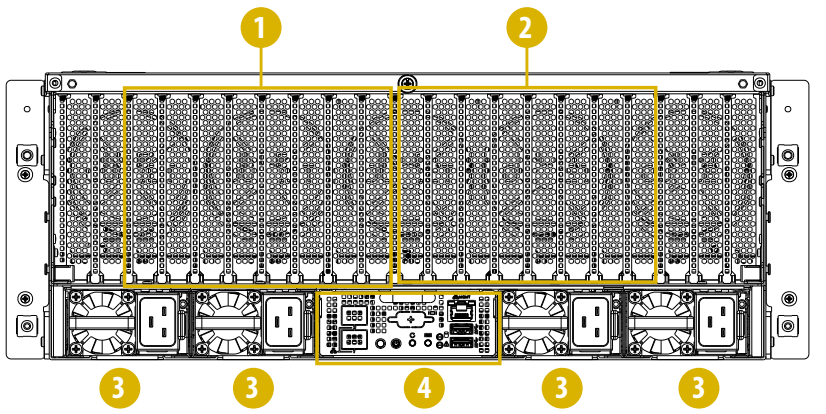
No.	Description
7	NMI button
8	**Upper:** Hard drive activity LED **Lower:** System fault LED
9	Dedicated IPMI LAN port, shares with rear I/O
10	RJ45 (1GbE) LAN port (LAN1), shares with rear I/O
11	RJ45 (1GbE) LAN port (LAN2), shares with rear I/O

5 System Front Panel



No.	Description
1	4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [CPU1] (**left-to-right:** HDD1~HDD4)
2	8 Hot-Swap 2.5" SATA drive bays [PCH] (**left-to-right:** HDD5~HDD12)
3	12 Hot-swap 2.5" SATA/SAS* drive bays (**left-to-right:** HDD13~HDD24) **Additional RAID/HBA card required to support the 12 2.5" SATA/SAS drive bays*
4	1 FHHL PCIe4.0 x8 slot [CPU1]
5	Front I/O panel (depends on the specification of the server motherboard)
6	1 Reserved OCP NIC 3.0 slot
7	1 FHHL PCIe5.0 x16 slot [CPU0]

6 System Rear Panel

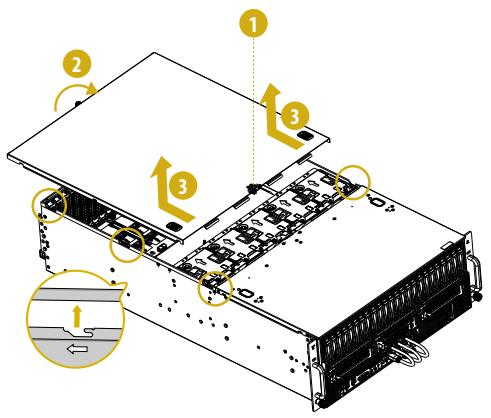


No.	Description
1	4 FHFL dual-slot PCIe5.0 x16 slots (CPU0 direct link, **left-to-right:** PCIE1~PCIE4)
2	4 FHFL dual-slot PCIe5.0 x16 slots (CPU1 direct link, **left-to-right:** PCIE5~PCIE8)
3	3+1 CRPS
4	Rear I/O panel

7 Remove and Install Top Cover

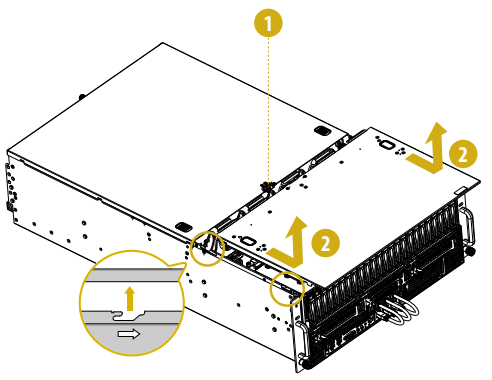
Removing the Server Top Rear Cover

1. Release the sping 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.



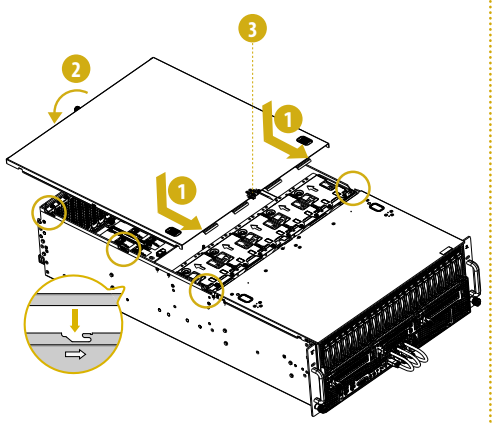
Removing the Server Top Front Cover

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.



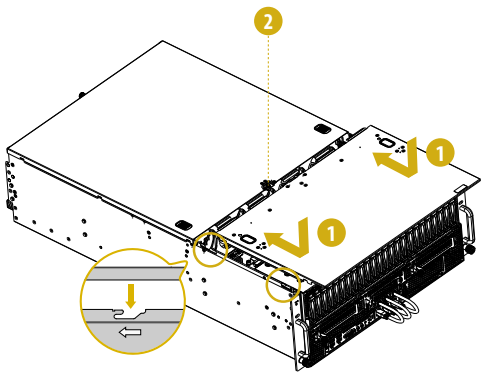
Installing the Server Top Rear Cover

1. Lower the top rear cover on the chassis, making sure the side latches align with the cutouts. Slide the cover toward the FRONT of the chassis.
2. Hand-tighten the thumbscrew on the rear side of the chassis.
3. Secure the cover in place with the spring screw.



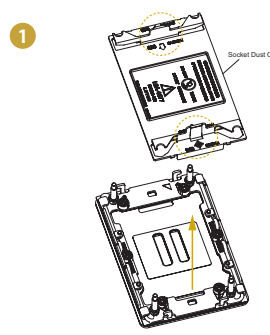
Installing the Server Top Front Cover

1. Lower the top front cover on the chassis, making sure the side latches align with the cutouts. Slide the cover toward the REAR of the chassis.
2. Secure the cover in place with the spring screw.

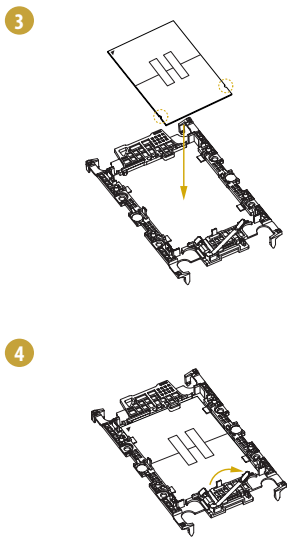


8 Install CPU and Heatsink (LGA4677 Socket)

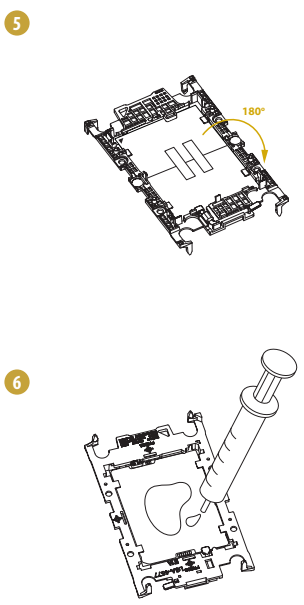
Remove the CPU socket cover and open the socket lever.



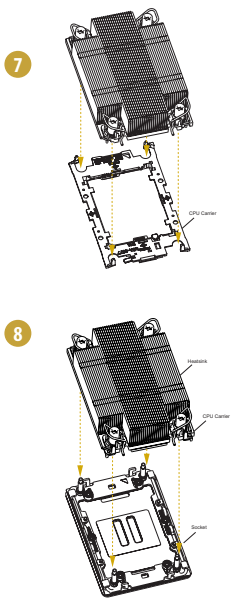
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



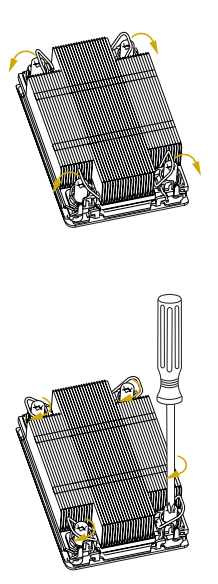
Carefully flip the carrier assembly. Apply a thermal paste.



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



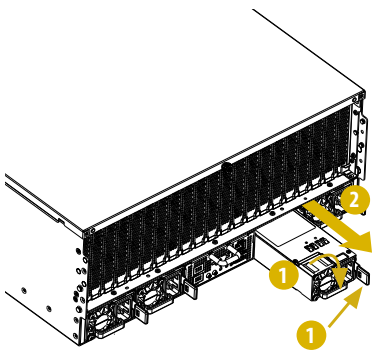
Tighten the corner fasteners. Secure the heastink to the motherboard with a screwdriver.



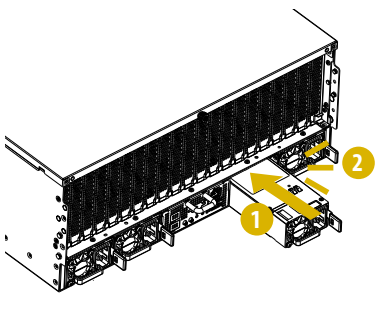
Note: To prevent damage to the CPU, install and remove the CPU carrier only when the CPU socket lever is in the closed position.

9 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 PSU from the chassis.

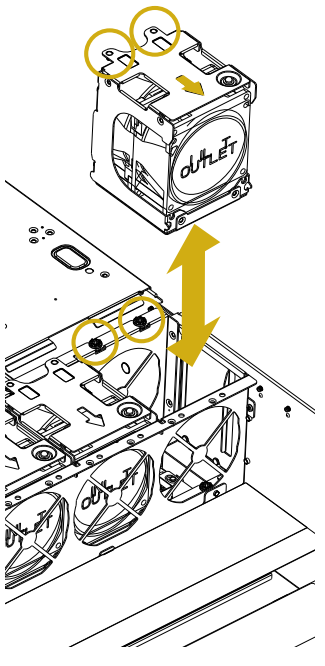


1. Carefully slide the PSU all the way into the power supply bay.
2. Make sure the PSU clicks into place and is well installed.



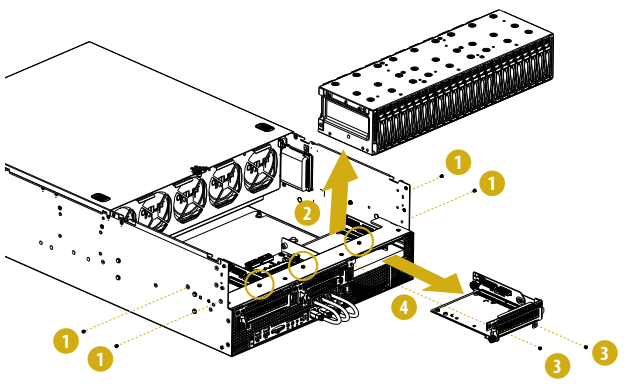
10 Replace Fan

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. 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.

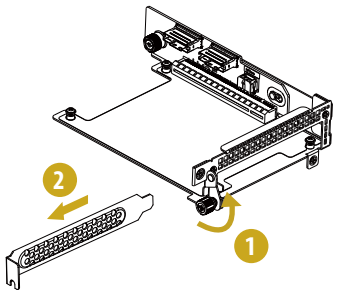


11 Install Add-In Card

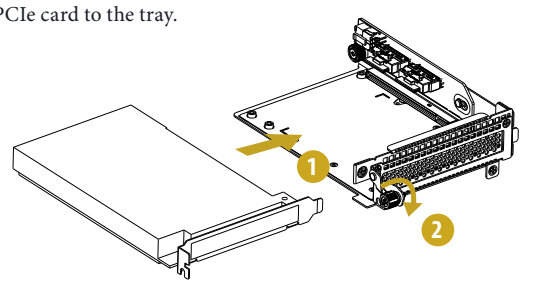
1. Remove the screws securing the hard drive frame to the chassis.
2. Lift up and remove the frame.
3. Remove the screws on the riser-card tray.
4. Pull to remove the tray from the chassis.



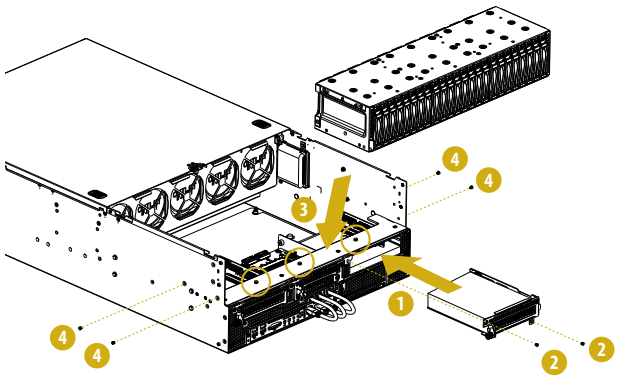
1. Hand-release the thumbscrew securing the blanking plate to the tray. Pull up the latch.
2. Slide the blanking plate out sideways.



1. Place a PCIe add-in card to 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 on the chassis.
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.