



P/N: 15G065396000AR V1.0

Quick Installation Guide

1U12E-EGS2/EVAC

ASRock
Rack
www.asrockrack.com



1U12E-EGS2/EVAC

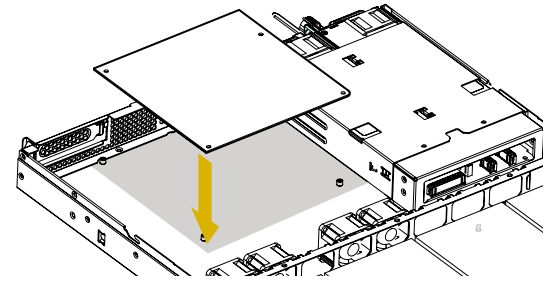
The User Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

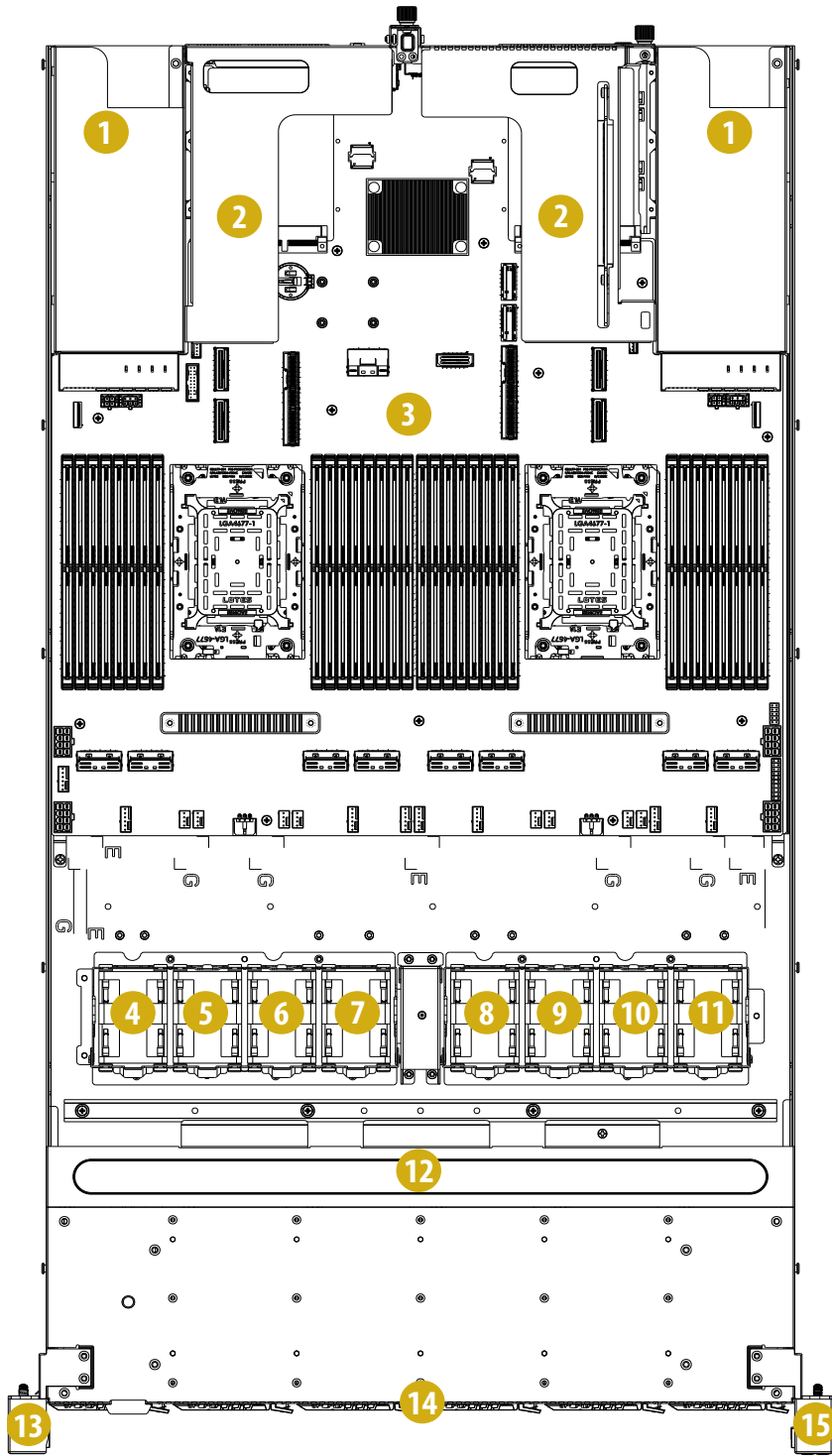
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

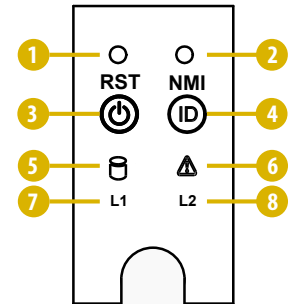


2 Internal Features



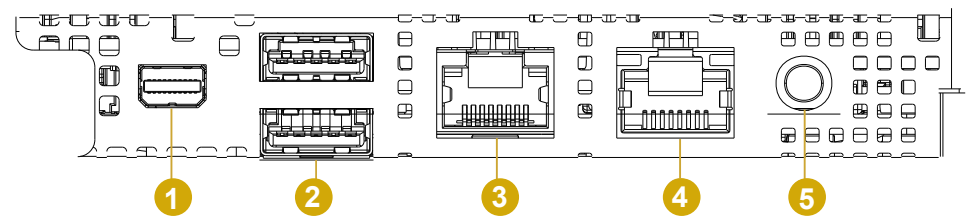
Note: This illustration is without EVAC. For more information about EVAC, refer to **10 Install CPU and EVAC** section.

No.	Description
1	1+1 CRPS
2	2 FHHL PCIe5.0 x16 slots
3	Server motherboard
4	System fan (FAN_1)
5	System fan (FAN_2)
6	System fan (FAN_3)
7	System fan (FAN_4)
8	System fan (FAN_5)
9	System fan (FAN_6)
10	System fan (FAN_7)
11	System fan (FAN_8)
12	Hard drive backplane board (BPB)
13	1 Type-A (USB3.2 Gen1) port
14	12 Hot-swap 2.5" NVMe drive bays
15	Front I/O panel



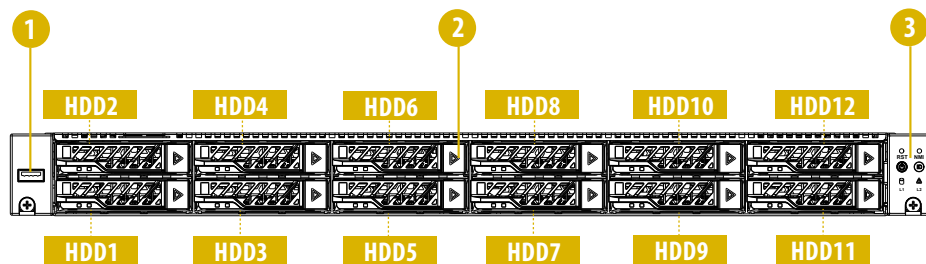
No.	Description
1	System reset button
2	NMI button (not available)
3	Power button w/ LED
4	ID button w/ LED
5	Hard drive activity LED
6	System event LED
7	LAN1 LED (not available)
8	LAN2 LED (not available)

4 Rear I/O Panel



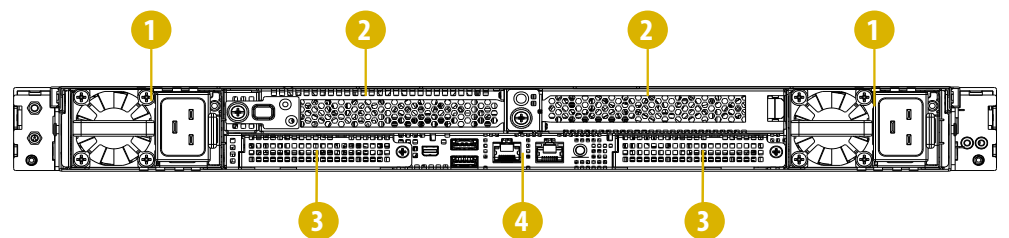
No.	Description
1	Mini display port 1.1a
2	2 Type-A (USB3.2 Gen1) ports
3	RJ-45 (COM) port
4	Dedicated IPMI LAN port
5	ID button w/ LED

5 System Front Panel



No.	Description
1	1 Type-A (USB3.2 Gen1) port
2	12 Hot-Swap 2.5" NVMe (PCIe5.0 x4) drive bays
3	Front I/O panel

6 System Rear Panel

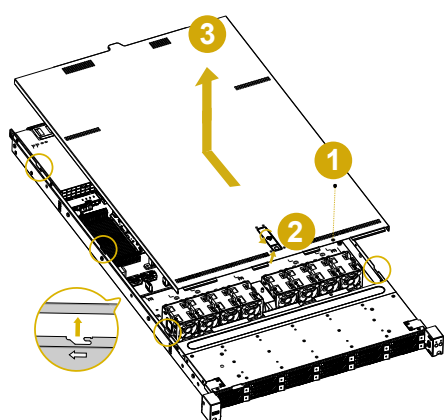


No.	Description
1	1+1 CRPS
2	2 FHHL PCIe5.0 x16 slots
3	2 OCP NIC 3.0 (PCIe5.0 x16) slots
4	Rear I/O panel (depends on the specification of the server motherboard)

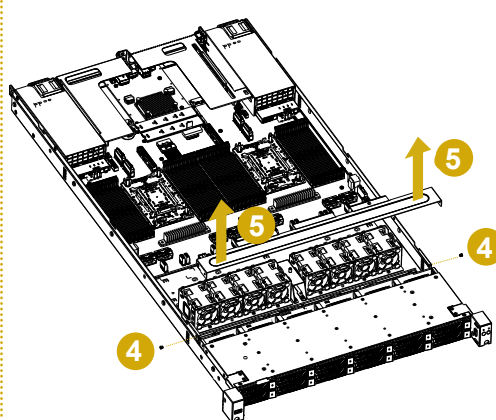


7 Remove Top Cover

1. Remove the screw securing the rear top cover.
2. Loosen the screw on the locking tab and press the button to unlock the cover.
3. Push the cover toward the REAR of the chassis to release it from the locked position. Lift up and remove the cover.



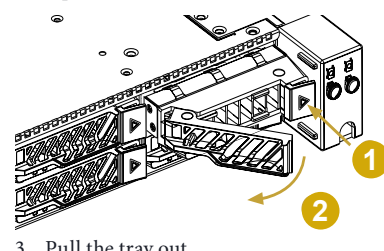
4. Remove the screws securing the hard drive backplane board cover to the chassis.
5. Lift up and remove the cover.



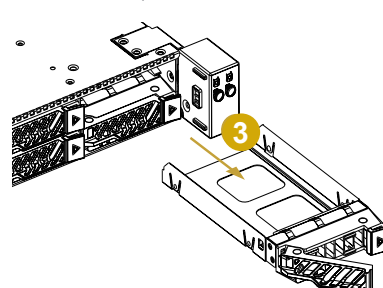
8 Remove Hard Drive Tray and Install Hard Drive

Removing Hard Drive Tray

1. Press the locking lever latch.
2. Open the lever.

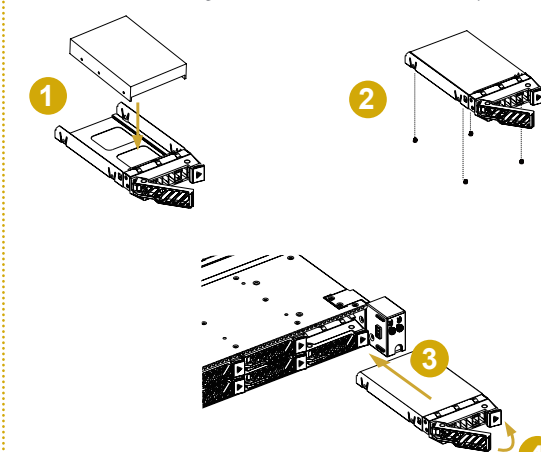


3. Pull the tray out.



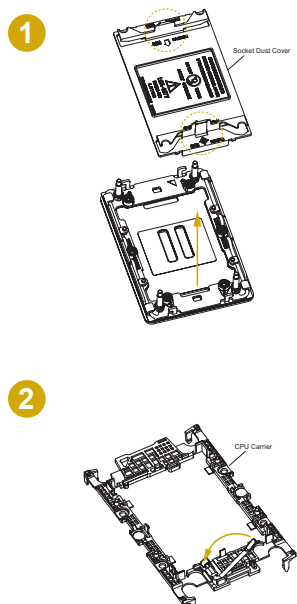
Installing 2.5" Hard Drive

1. Place the hard drive into the tray with printed circuit board side facing down.
2. Use the screws to secure the hard drive.
3. Slide the drive tray into the bay until the drive is fully seated.
4. Push in the locking lever to lock the hard drive tray.

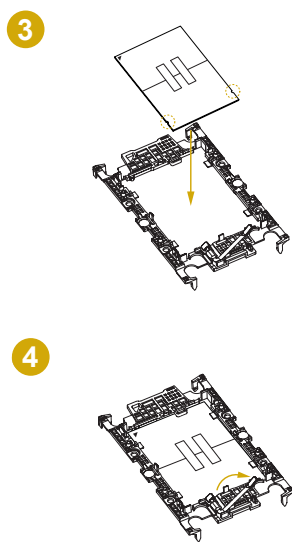


9 Install CPU and EVAC (LGA4677 Socket)

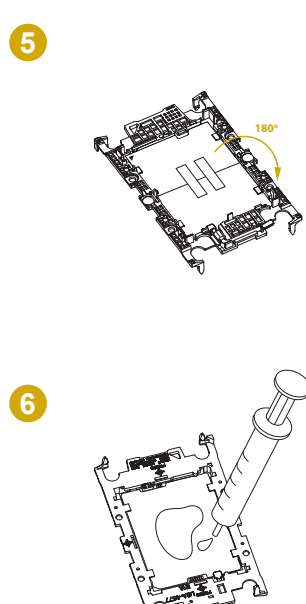
Remove the CPU socket cover and open the socket lever.



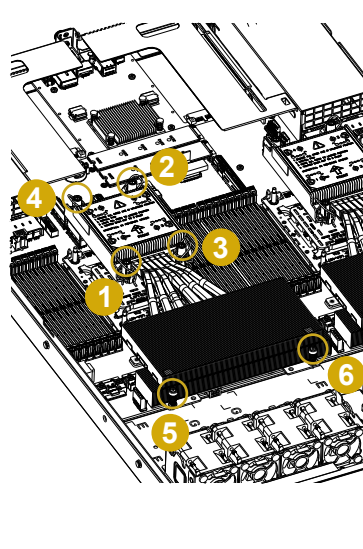
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



Carefully flip the carrier assembly. Apply a thermal paste.



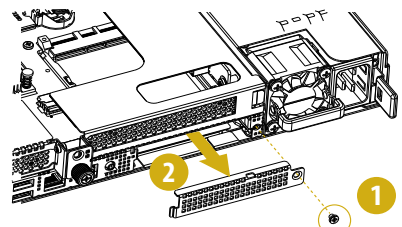
Tighten the screws in a sequential order 1 > 2 > 3 > 4 > 5 > 6 to install the EVAC. Note: Loosen the screws in a reverse order to remove the EVAC.



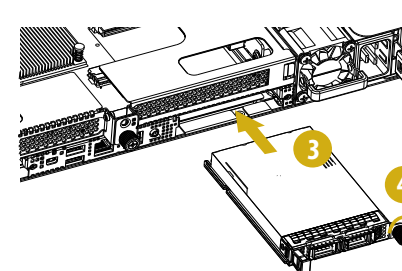
Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

10 Install OCP Card

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

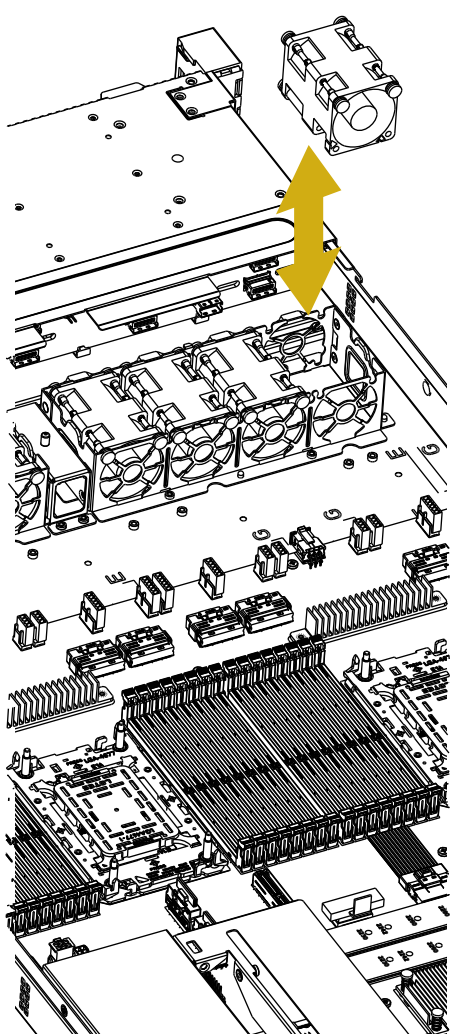


3. Install the OCP cards into the slot.
4. Make sure the card is well seated and hand-tighten the thumbscrew.



11 Replace System Fan

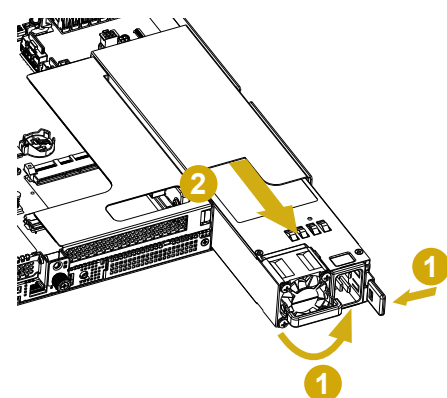
Press and hold the fan clip on to replace the fan.



12 Replace Power Supply Unit

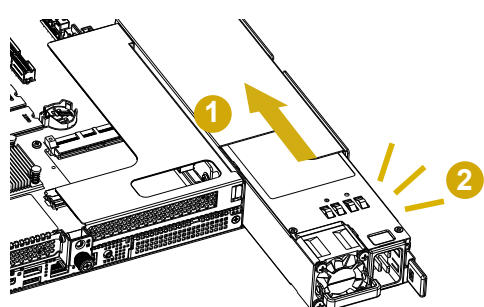
Removing the Power Supply Unit

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



Installing the Power Supply Unit

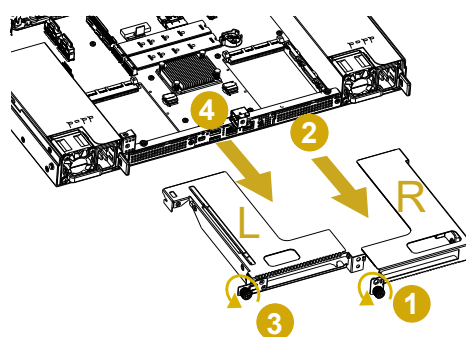
1. Align the PSU with the power supply bay.
2. Carefully slide the PSU all the way into the bay until it clicks into place.



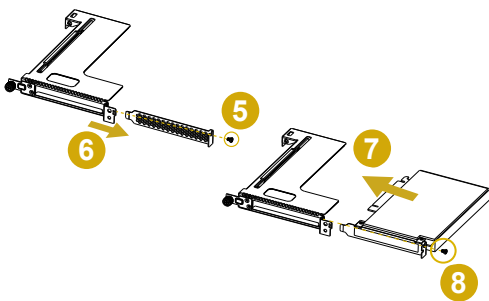
13 Install Add-in Card

Note: This system supports two riser-card brackets as shown below. For disassembly, hand-release the thumbscrews to remove bracket R first, then bracket L. If installing both add-in cards, install left add-in card first then right add-in card.

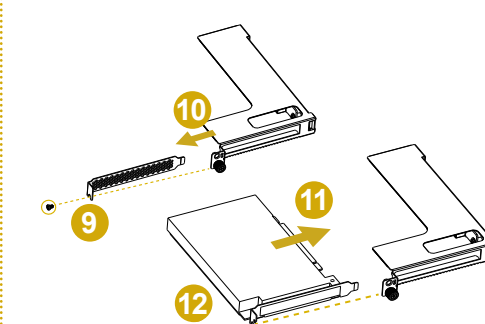
1. Release the thumbscrew securing the right bracket.
2. Pull to remove the right bracket from the chassis.
3. Release the thumbscrew securing the left bracket.
4. Pull to remove the left bracket from the chassis.



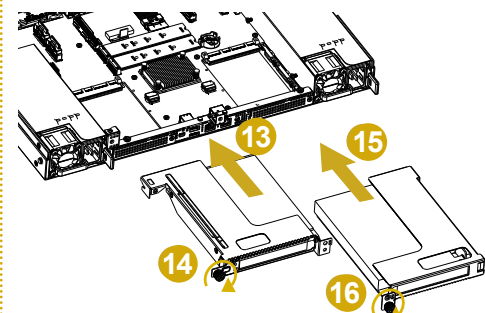
5. Remove the screw securing the blanking plate on the left bracket.
6. Slide the blanking plate out sideways.
7. Install an add-in card to the left bracket.
8. Secure the add-in card to the bracket with the screw.



9. Remove the screw securing the blanking plate on the right bracket.
10. Slide the blanking plate out sideways.
11. Install an add-in card to the right bracket.
12. Secure the add-in card to the bracket with the screw.



13. Place the left assembly to the chassis.
14. Hand-tighten the thumbscrew to secure the assembly to the chassis.
15. Place the right assembly to the chassis.
16. Hand-tighten the thumbscrew to secure the assembly to the chassis.



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