



P/N: 15G065296000AR V1.0

Quick Installation Guide
1U12E-EGS/2L2Q



1U12E-EGS/2L2Q

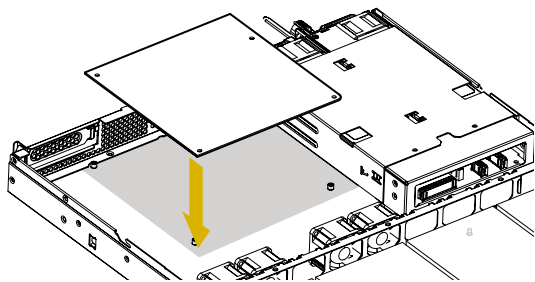
The User Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

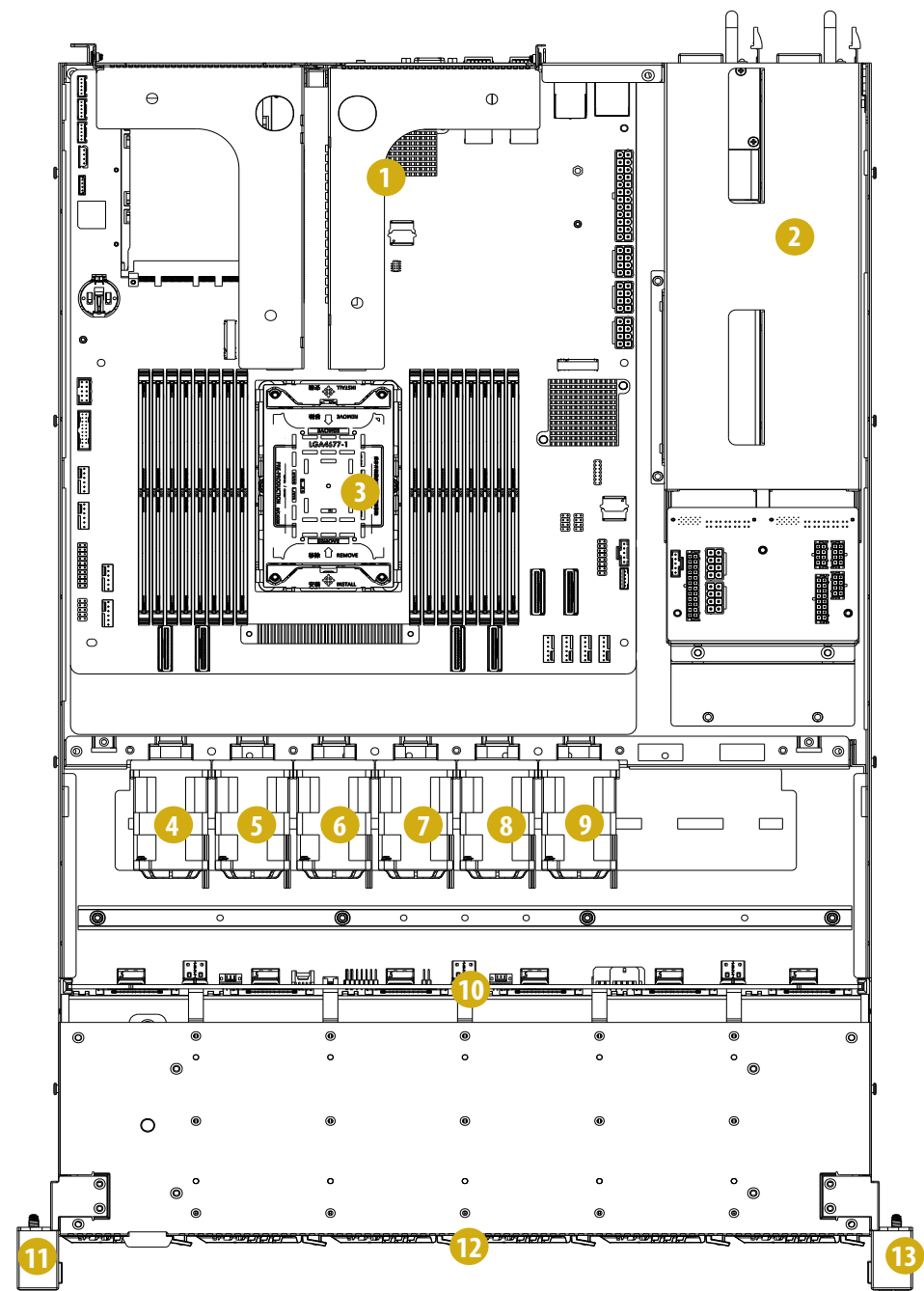
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

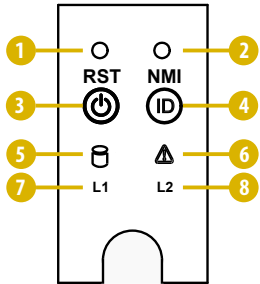
- 1 Carefully unplug all cables and release thumbscrews on the server motherboard to remove them from the barebone.
- 2 Align the replaced server motherboard with the mounting holes.
- 3 Affix the screws clockwise into the mounting holes in all of the corners of the server motherboard.
Do not over-tighten the screws.



2 Internal Features

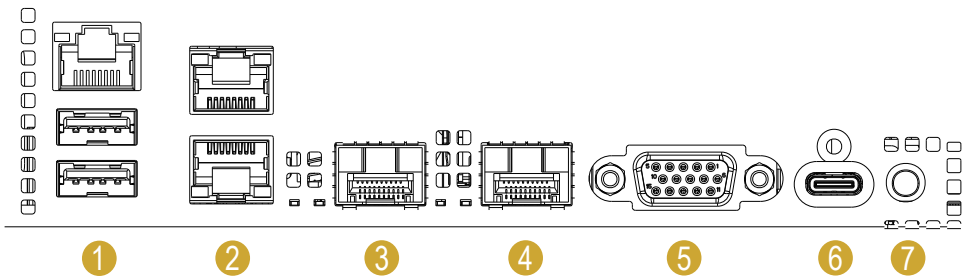


No.	Description
1	1 FHHL PCIe5.0 x8 slot
2	1+1 Slim PSU
3	Server motherboard
4	PWM hot-swap 40x56mm fan (FAN6)
5	PWM hot-swap 40x56mm fan (FAN5)
6	PWM hot-swap 40x56mm fan (FAN4)
7	PWM hot-swap 40x56mm fan (FAN3)
8	PWM hot-swap 40x56mm fan (FAN2)
9	PWM hot-swap 40x56mm fan (FAN1)
10	2.5" Hard drive backplane board (BPB)
11	1 Type-A (USB3.2 Gen1) port
12	12 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS* drive bays *SAS drive is only supported with additional RAID/HBA cards.
13	Front I/O panel



No.	Description
1	Reset button
2	NMI button
3	Power on/off button w/ LED
4	ID button w/ LED
5	Hard drive LED
6	System event LED
7	LAN1 LED
8	LAN2 LED

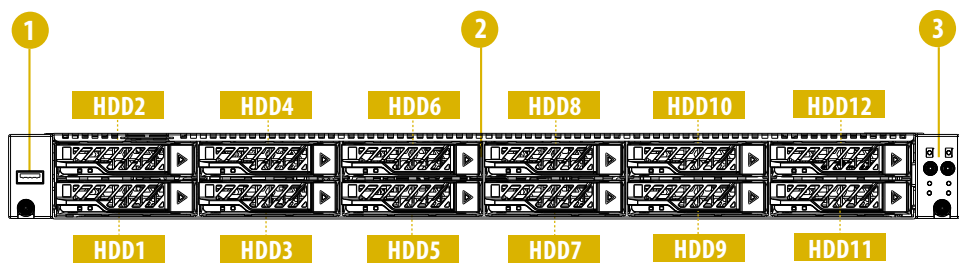
4 Rear I/O Panel



No.	Description
1	Upper: 1 Dedicated IPMI LAN port Lower: 2 Type-A (USB3.2 Gen1) port
2	2 RJ45 (1GbE) LAN ports
3	1 SFP28 (25GbE) LAN port
4	1 SFP28 (25GbE) LAN port

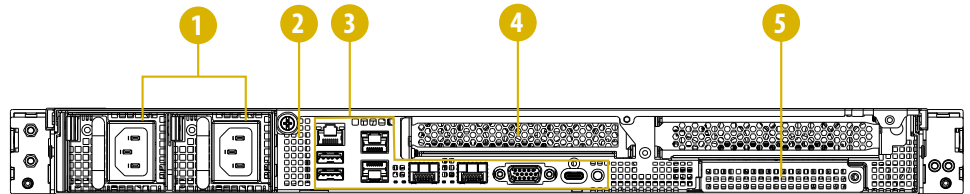
No.	Description
5	1 DB15 (VGA)
6	1 Rear via Type-C connector
7	1 UID button w/ LED

5 System Front Panel



No.	Description
1	1 Type-A (USB3.2 Gen1) port
2	12 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS* drive bays *SAS drive is only supported with additional RAID/HBA cards.
3	Front I/O panel

6 System Rear Panel

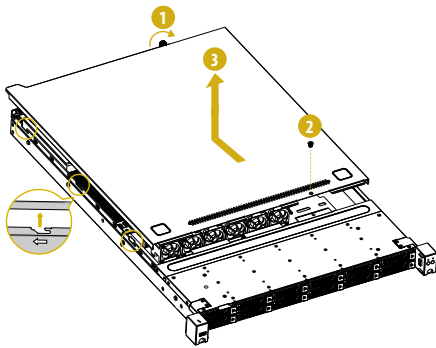


No.	Description
1	1+1 Slim PSU
2	Rear vent
3	Rear I/O panel (depends on the specification of the server motherboard)
4	1 FHHL PCIe5.0 x8 slot
5	1 OCP NIC 3.0 (PCIe5.0 x16) slot [CPU]

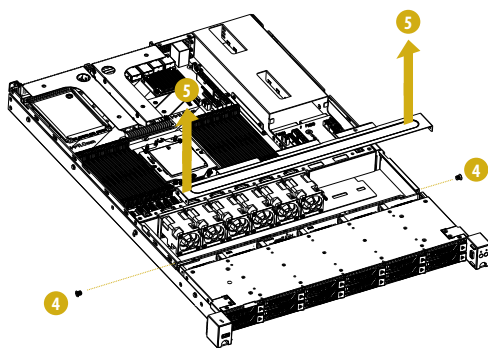


7 Remove and Install Top Cover

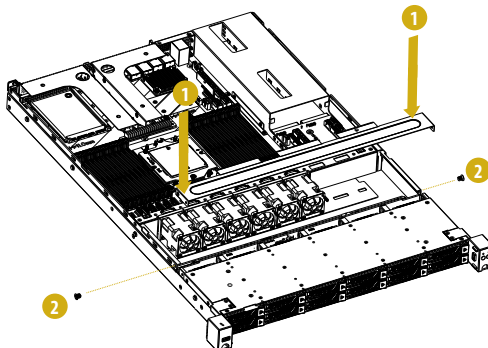
Hand-release the rear thumbscrew. Remove the top rear cover screw. Push the cover to lift up and remove it.



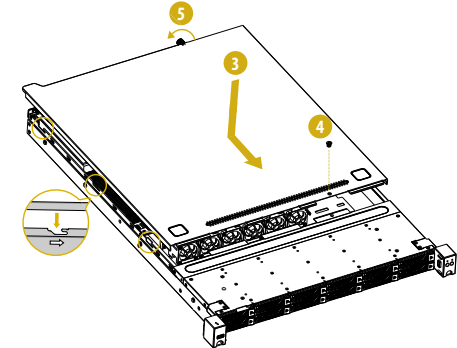
Remove hard drive backplane board cover screws. Lift up and remove it.



Place the hard drive backplane board cover on the chassis. Secure the cover in place with the screws.

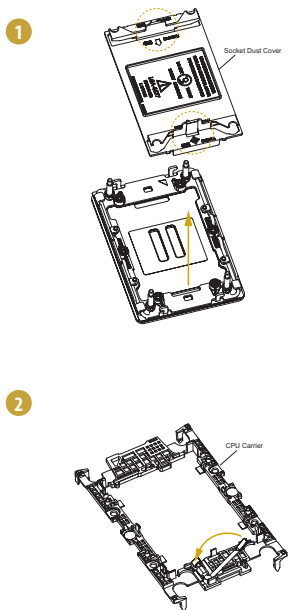


Lower and slide the top rear cover toward the FRONT. Secure the cover to the chassis with a rear thumbscrew and a top screw.

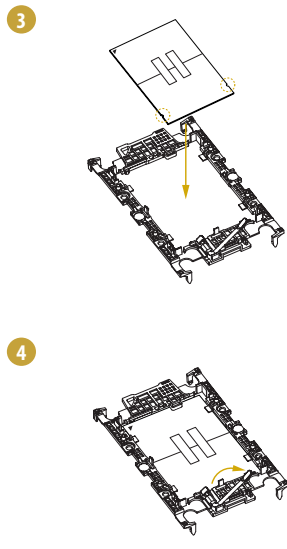


8 Install CPU and Heatsink (LGA 4677 Socket)

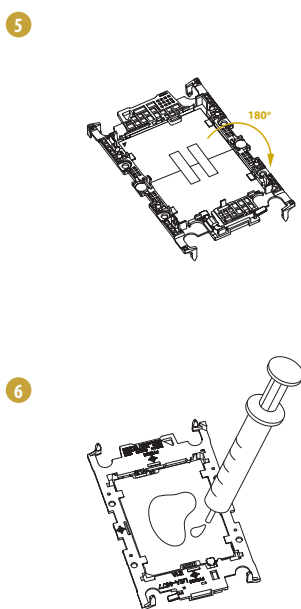
Remove the CPU socket cover and open the socket lever.



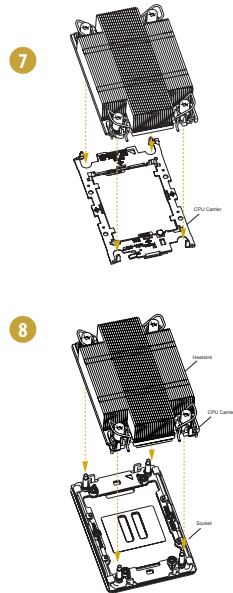
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



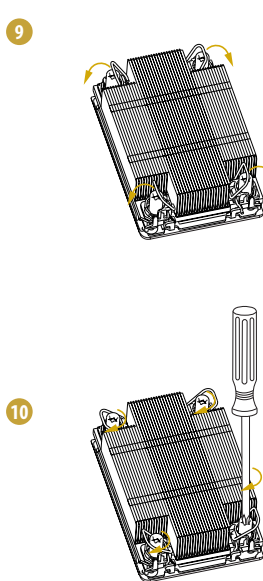
Carefully flip the carrier assembly. Apply a thermal paste.



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 server motherboard with a screwdriver.

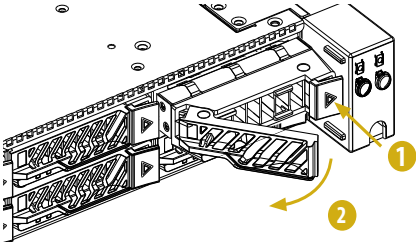


Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

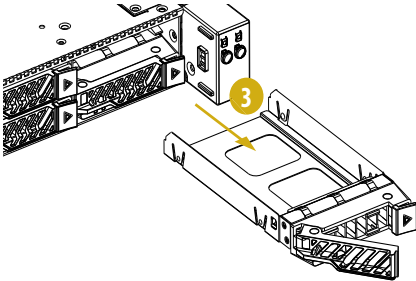
9 Remove Hard Drive Tray and Install Hard Drive

Remove Hard Drive Tray

Press the locking lever latch to open the lever.

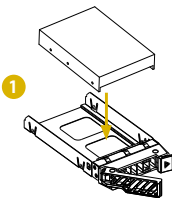


Pull the hard drive tray out.

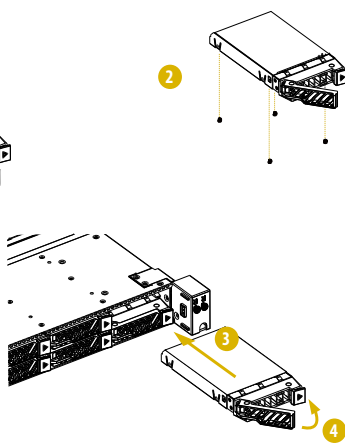


Install 2.5" Hard Drive

Place the hard drive into the tray with printed circuit board side facing down.

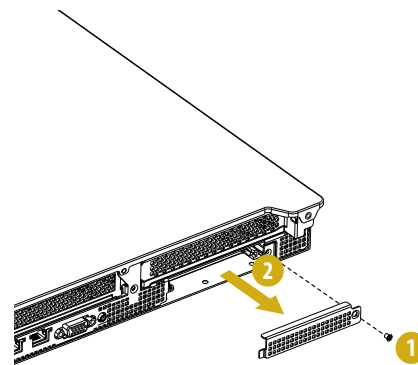


Use the screws to secure the hard drive. Slide the tray into the hard drive bay. Push in the locking lever to lock the tray in place.

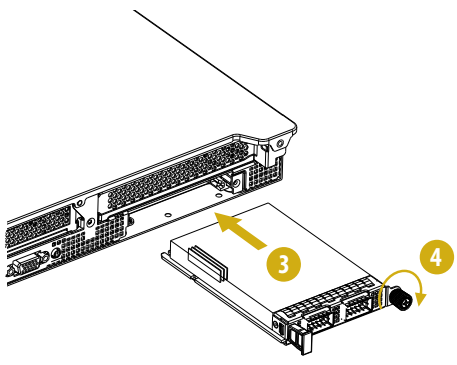


10 Install OCP Card

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

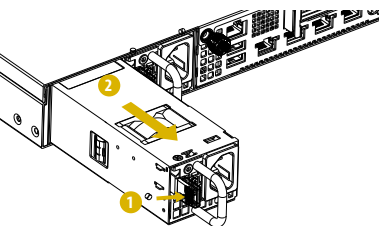


Install an OCP card into the slot. Make sure the card is well seated and hand-tighten the thumbscrew on the face plate.

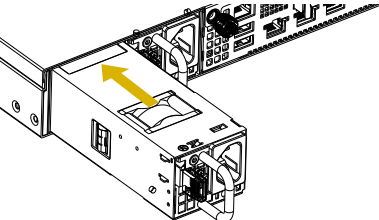


11 Replace PSU

Press the locking lever and hold on the handle to pull the old PSU out.

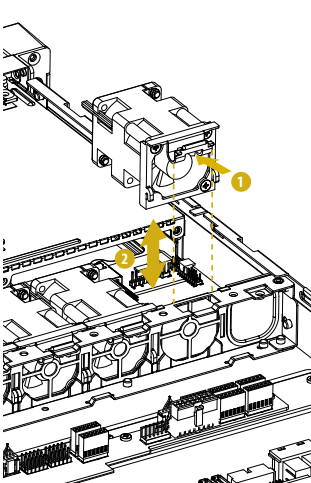


Slide the new PSU into the bay.



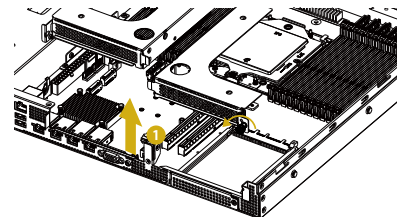
12 Replace Fan

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

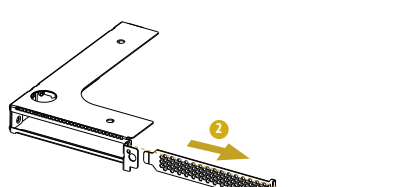


13 Install Riser-card and Add-in Card

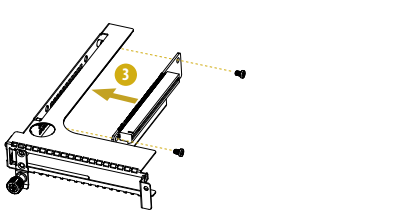
Hand-release the thumbscrew to lift up the riser-card bracket.



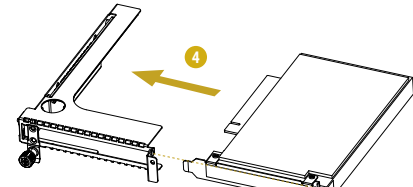
Remove the screw to slide the blanking plate out.



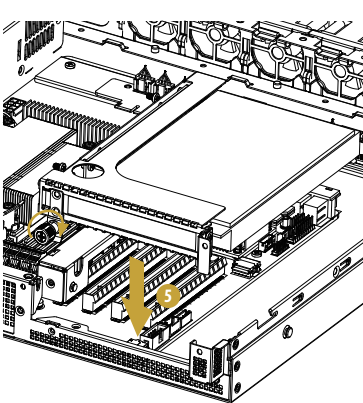
Install the riser-card to the bracket and secure it with screws.



Install the add-in card to the riser-card assembly and secure it with the screw.



Install the add-in card assembly to the chassis with the thumbscrew.



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