



P/N: 15G06536600AR V1.0

Quick Installation Guide
2U2E-GNR2/2T

ASRock
Rack
www.asrockrack.com



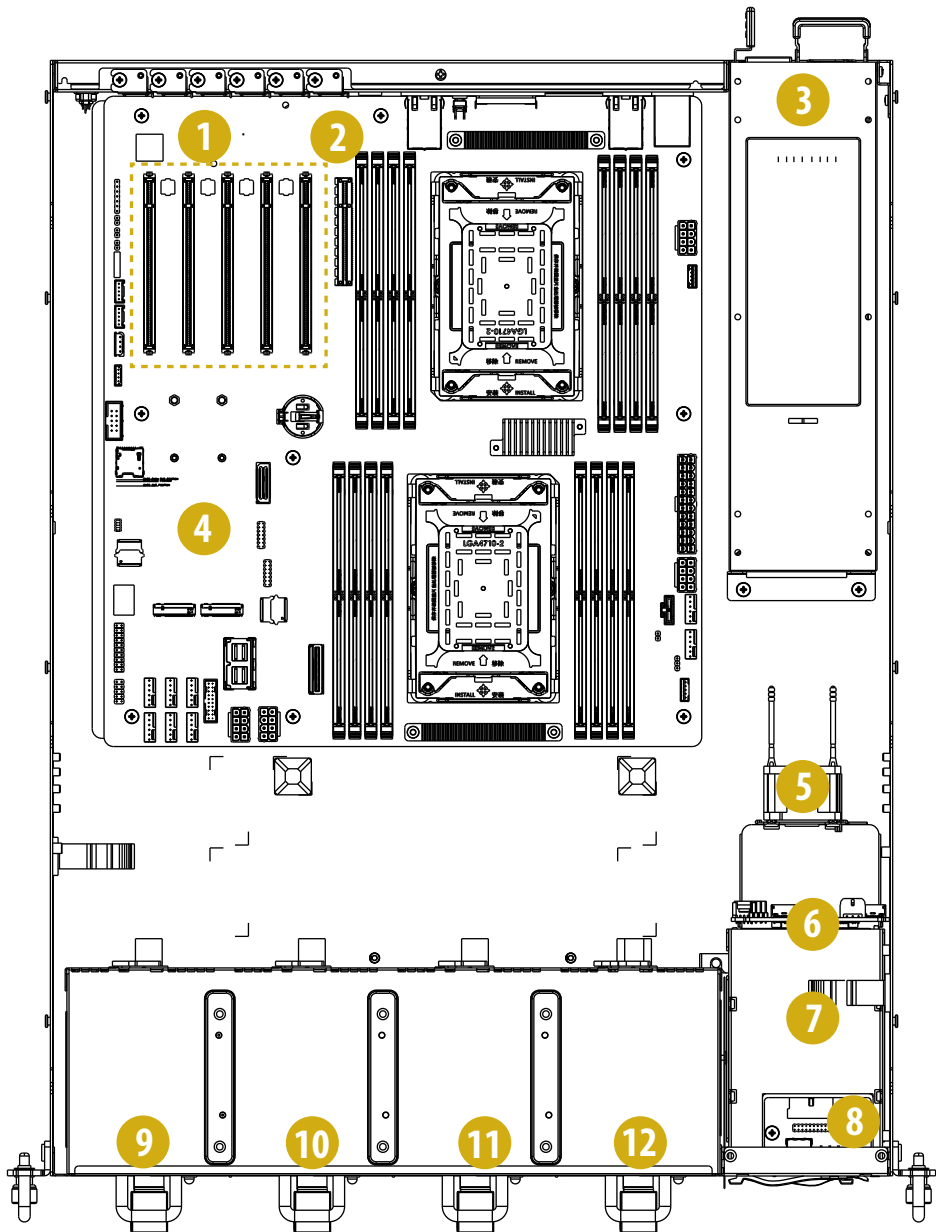
2U2E-GNR2/2T

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.

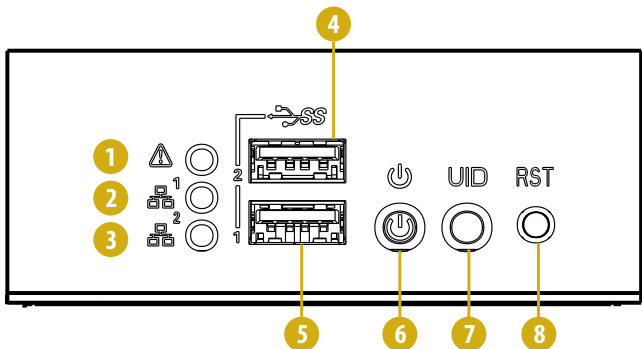
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

2 Internal Features



No.	Description	No.	Description
1	5 HHHL single-slot PCIe5.0 x16 slots	7	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
2	1 HHHL single-slot PCIe5.0 x8 slot	8	Front panel board (2U4G_FPB_G5)
3	1+1 CRPS	9	1 Hot-swap 80x56mm fan (FAN1)
4	Server motherboard	10	1 Hot-swap 80x56mm fan (FAN2)
5	1 Fixed 40x28mm fan (FAN5)	11	1 Hot-swap 80x56mm fan (FAN3)
6	Backplane board (1U2G_U2BP_G4)	12	1 Hot-swap 80x56mm fan (FAN4)

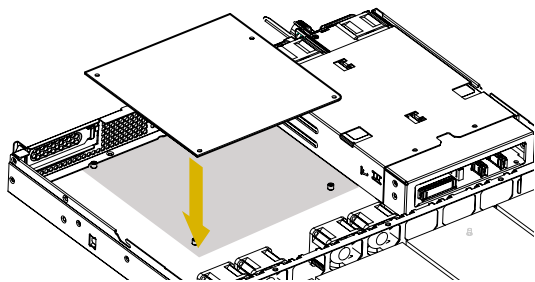
6 Front I/O Panel



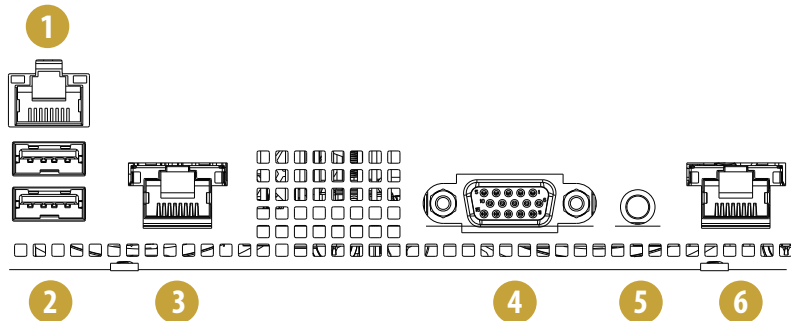
No.	Description
1	System event LED
2	LAN1 LED
3	LAN2 LED
4	1 Type-A (USB3.2 Gen1) port
5	1 Type-A (USB3.2 Gen1) port
6	Power button w/ LED
7	ID button w/ LED
8	System reset button

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.

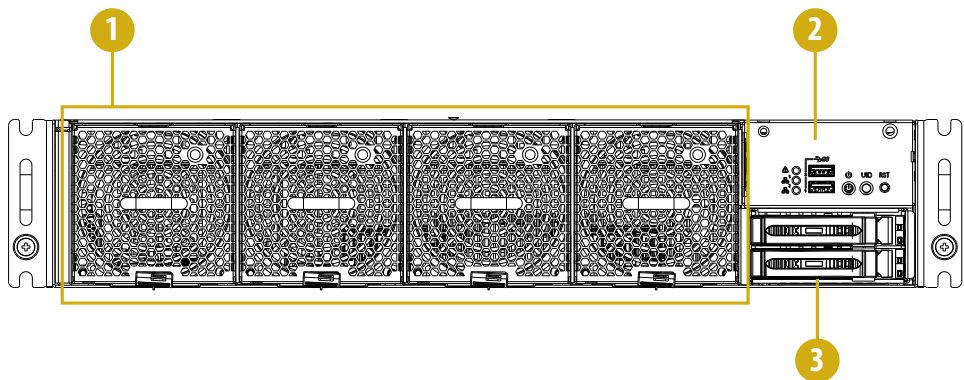


3 Rear I/O Panel



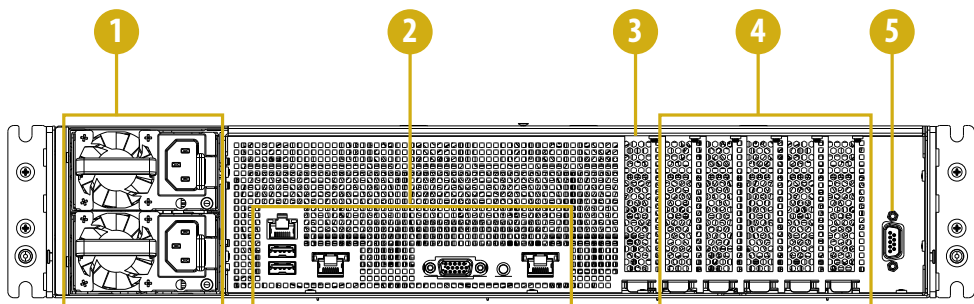
No.	Description	No.	Description
1	1 Dedicated IPMI LAN port	4	1 DB15 (VGA)
2	2 Type-A (USB3.2 Gen1) ports	5	1 UID button w/ LED
3	1 RJ45 (10GbE) LAN port	6	1 RJ45 (10GbE) LAN port

4 System Front Panel



No.	Description
1	4 PWM hot-swap 80x56mm fans
2	Front I/O Panel
3	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays

5 System Rear Panel

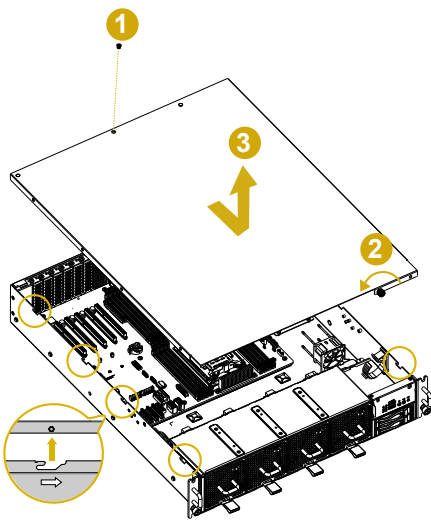


No.	Description
1	1+1 CRPS
2	Rear I/O panel (depends on the specification of the server motherboard)
3	1 HHHL single-slot PCIe5.0 x8 slot
4	5 HHHL single-slot PCIe5.0 x16 slots
5	1 DB9 (COM) port



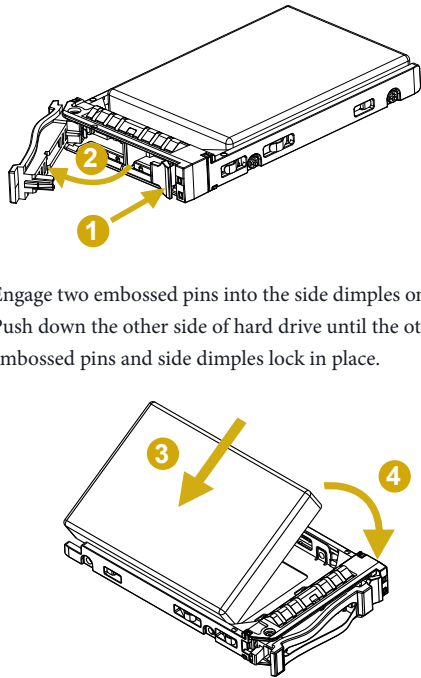
7 Remove Top Cover

1. Remove the screw on the top cover.
2. Hand-release the thumbscrew on the front side of the chassis.
3. Push the top cover toward the FRONT of the chassis. Lift up and remove the top cover.

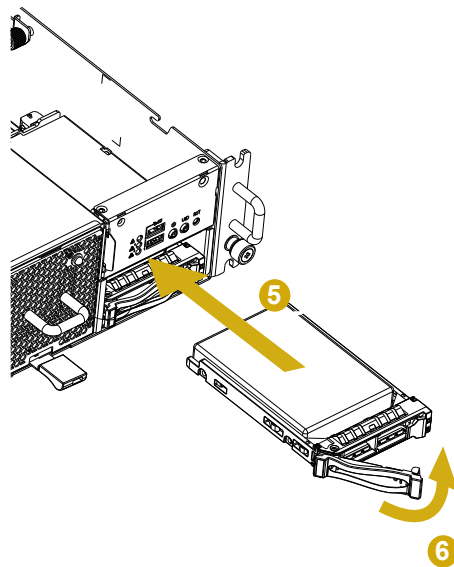


8 Install Hard Drive

1. Press the locking latch on the tray to unlock the lever.
2. Rotate the lever and pull the tray out.
3. Engage two embossed pins into the side dimples on the tray.
4. Push down the other side of hard drive until the other two embossed pins and side dimples lock in place.

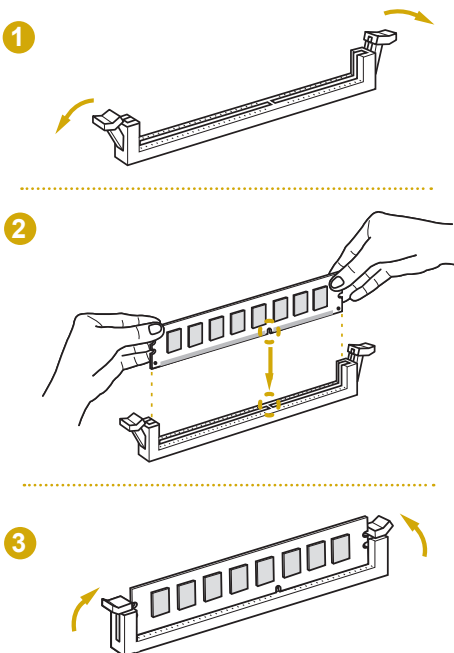


5. Slide the hard drive assembly into the bay until the assembly is fully seated.
6. Push in the locking lever to lock the assembly in place.



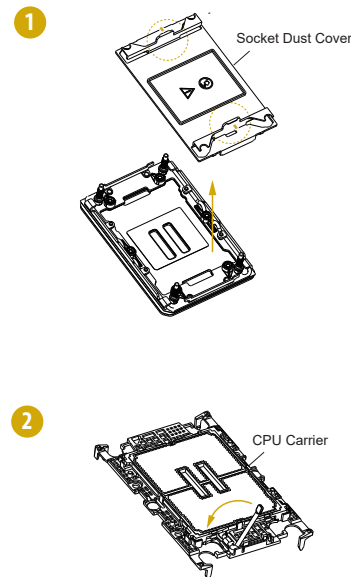
9 Install Memory Module

1. Unlock a DIMM slot by pressing the module clips outward.
2. Insert the memory module.
3. Lock the clips.

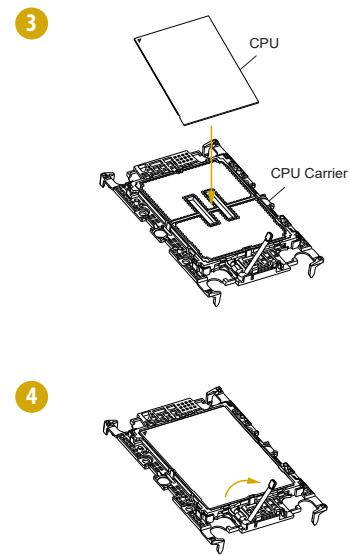


10 Install CPU and Heatsink (LGA 4710 Socket)

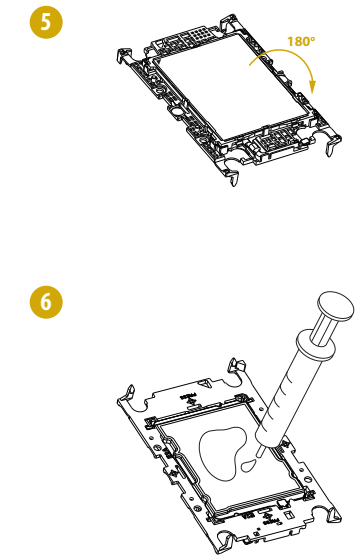
Remove the CPU socket cover and open the socket lever.



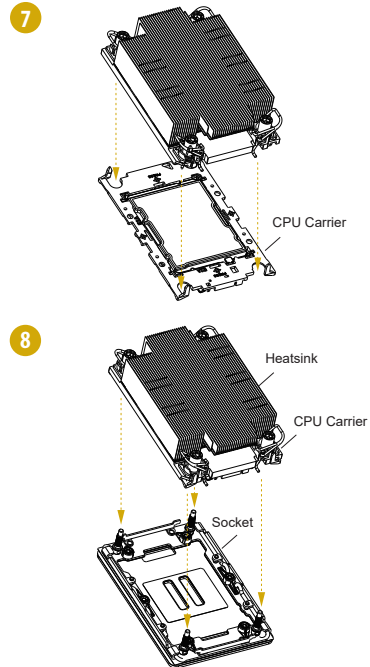
Align and install the processor on the carrier and make sure the arrow is located in the correct direction. Close the socket lever.



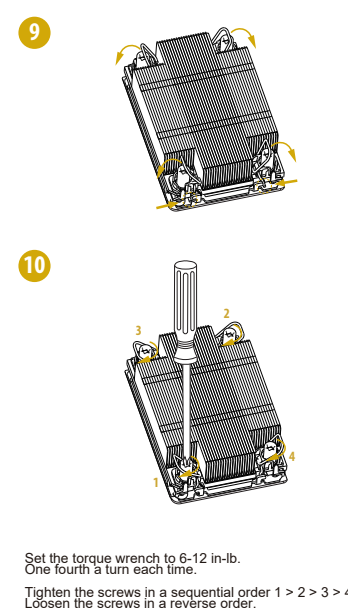
Carefully flip the carrier assembly. Apply a thermal paste.



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 motherboard with a screwdriver.

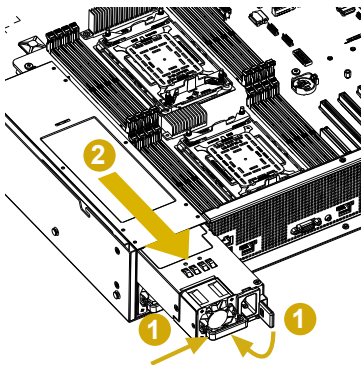


Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

11 Replace Power Supply Unit

Removing the Power Supply Unit
To remove a failed power supply unit, identify the failed PSU by checking the power supply LEDs on the PSUs.

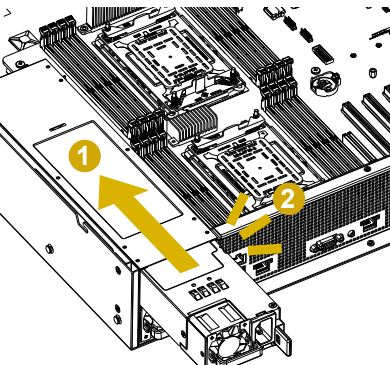
1. Hold onto the power supply handle while pressing the locking lever towards the power supply handle.
2. Pull to remove the PSU from the chassis.



Installing the Power Supply Unit

Align the power supply unit with the power supply bay. Ensure the LED appears on the lower right when installing the PSU.

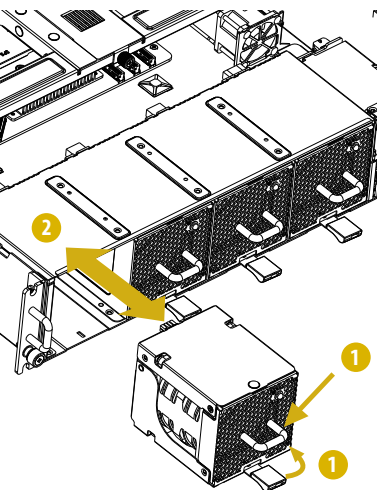
1. Slide the PSU all the way into the power supply bay.
2. Make sure the PSU clicks in place and is well installed.



12 Replace System Fan

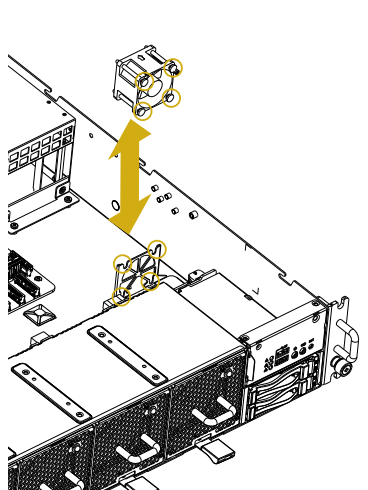
Replacing System 80x56mm Fan

1. Press the locking lever and hold on the fan handle.
2. Pull out the fan.
3. Align the connector on the bottom of the replacement fan with the connector in the bay. Place the fan into the bay.
4. Make sure the fan is well seated.



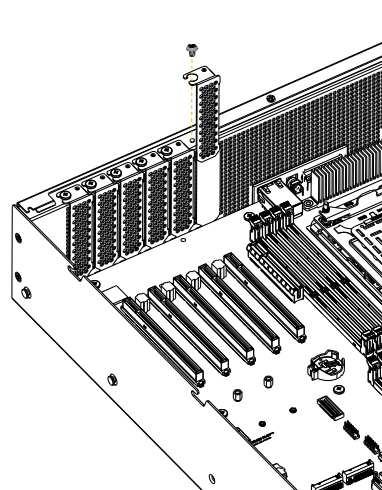
Replacing System 40x28mm Fan

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



13 Install Add-in Card

1. Remove the screw securing the cover in place for each add-in slot. Keep this screw for later use.
2. Align the add-in card and insert it in place.
3. Secure each card to the chassis using the screw previously removed.



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