P/N: 15G065411000AR V1.0

Quick Installation Guide

2U2G-TURIN/HPR

ASRock Rack
www.asrockrack.com

2U2G-TURIN/HPR

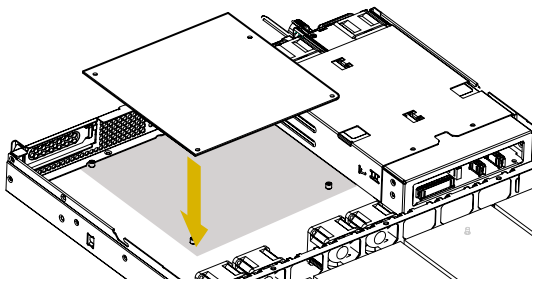
The User Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

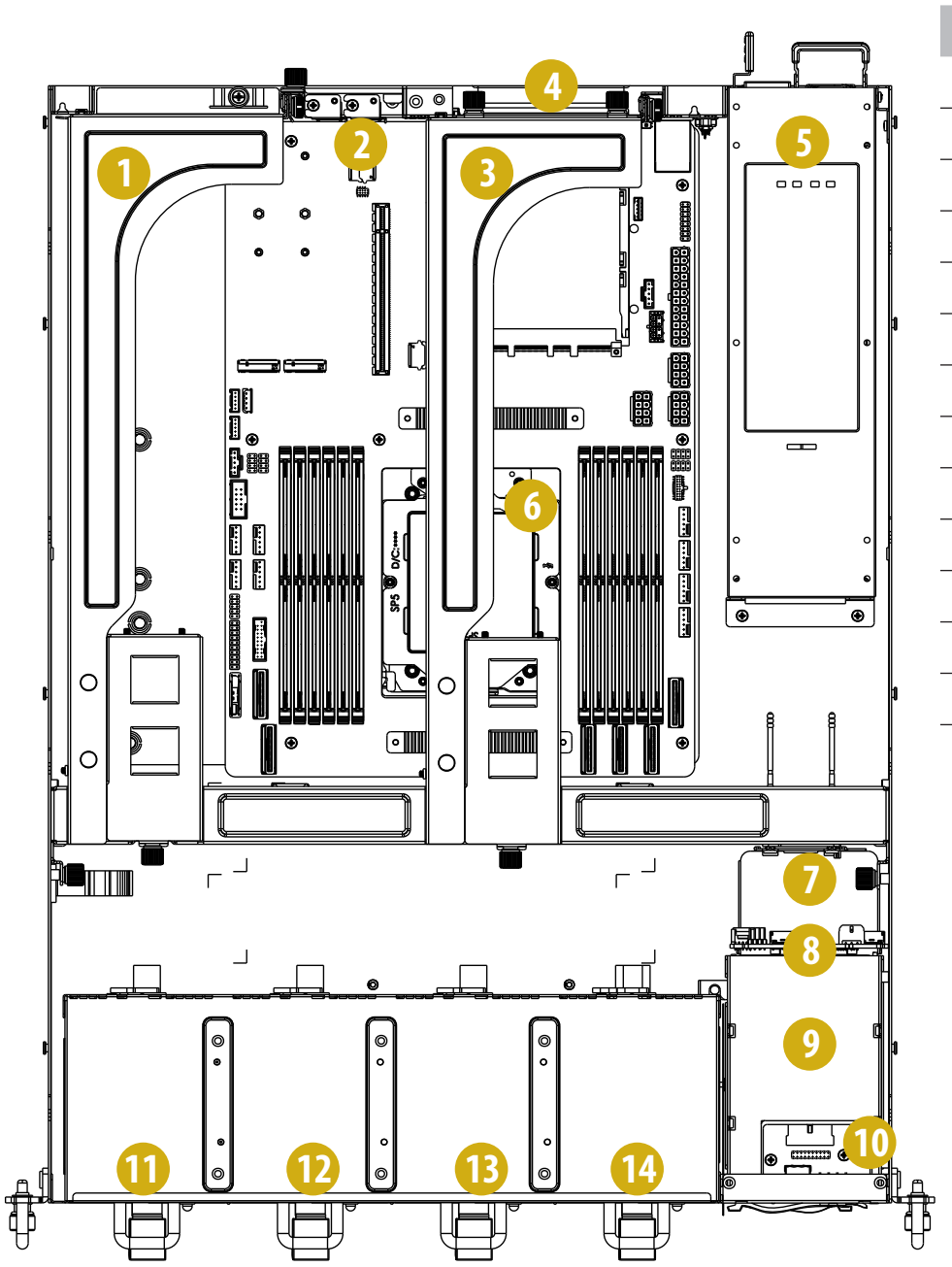
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

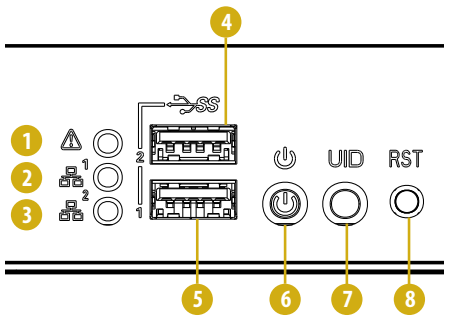


2 Internal Features



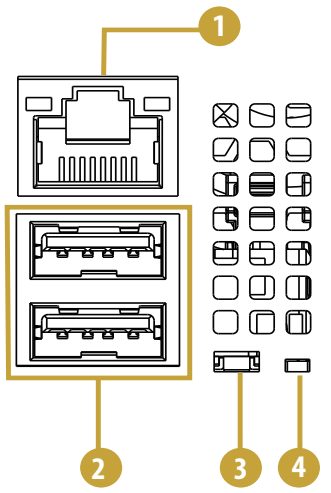
No.	Description
1	1 FHFL dual-slot PCIe5.0 x16 slots (riser-card 2)
2	1 HHHL PCIe5.0 x16 slot
3	1 FHFL dual-slot PCIe5.0 x16 slots (riser-card 1)
4	1 OCP NIC 3.0 (PCIe5.0 x16) slot
5	1+1 Hot-swap CRPS
6	Server motherboard
7	1 PWM fixed 40x28mm fan (FAN5)
8	Backplane board (1U2G_U2BP_G4)
9	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
10	Front panel board (2U4G_FPB_G5)
11	1 PWM hot-swap 80x56mm fan (FAN1)
12	1 PWM hot-swap 80x56mm fan (FAN2)
13	1 PWM hot-swap 80x56mm fan (FAN3)
14	1 PWM hot-swap 80x56mm fan (FAN4)

3 Front I/O Panel



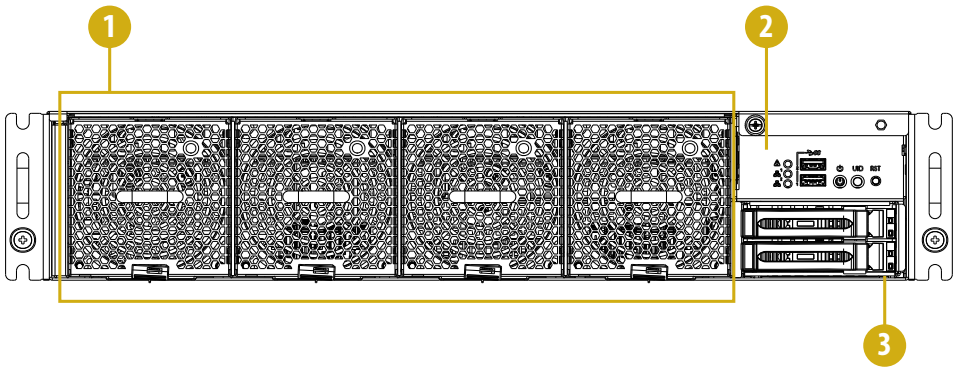
No.	Description
1	System event LED
2	LAN1 LED (not support)
3	LAN2 LED (not support)
4	1 Type-A (USB3.2 Gen1) port
5	1 Type-A (USB3.2 Gen1) port
6	Power button w/ LED
7	UID button w/ LED
8	System reset button

4 Rear I/O Panel



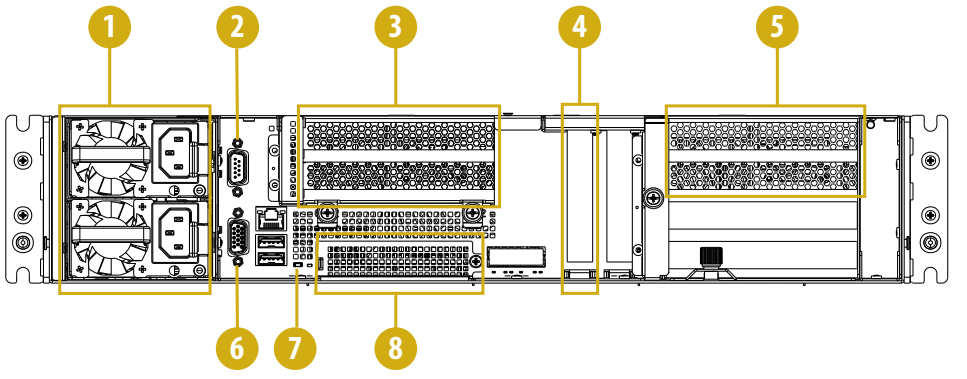
No.	Description
1	1 Dedicated IPMI LAN port
2	2 Type-A (USB 3.2 Gen1) ports
3	UID button
4	UID LED

5 System Front Panel



No.	Description
1	4 PWM hot-swap 80x56mm fans (FAN1 ~ FAN4)
2	Front I/O panel
3	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays

6 System Rear Panel

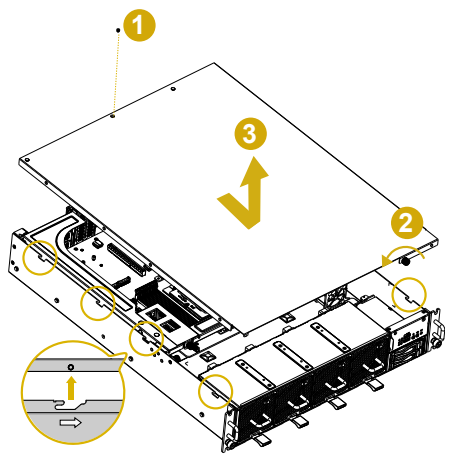


No.	Description
1	1+1 Hot-swap CRPS
2	1 DB9 (COM)
3	1 FHFL dual-slot PCIe5.0 x16 slots (riser-card 1)
4	1 HHHL single-slot PCIe5.0 x16 slot

No.	Description
5	1 FHFL dual-slot PCIe5.0 x16 slots (riser-card 2)
6	1 DB15 (VGA)
7	Rear I/O panel (depends on the specification of the server motherboard)
8	1 OCP NIC 3.0 (PCIe5.0 x16) slot

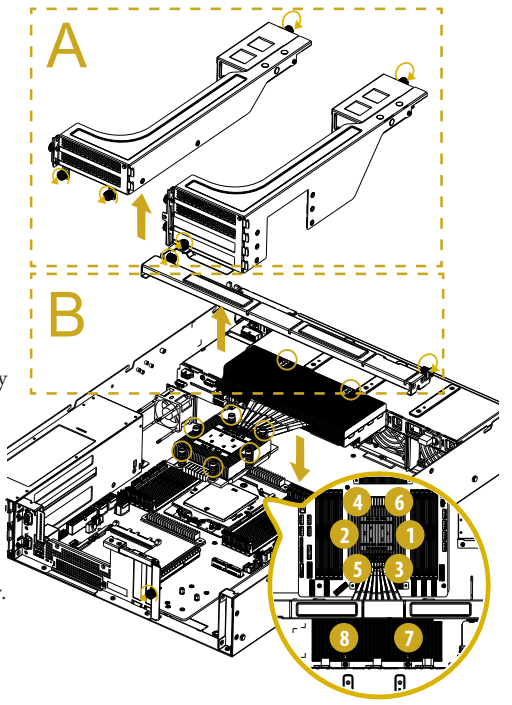
7 Remove Top Cover

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



8 Install the EVAC

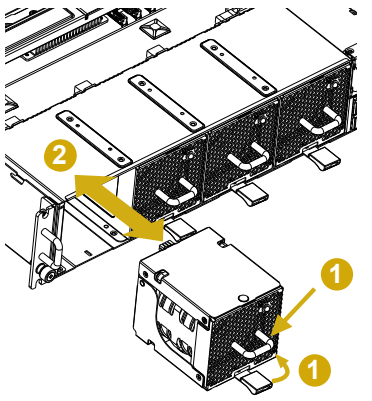
1. Refer to Item 12 to remove Part A.
2. Hand-release the thumbscrews on the both sides of the Part B. Lift up and remove the Part B.
3. Place the EVAC on the chassis. To avoid damaging the heat pipe, make sure to hold both the main part and outrigger simultaneously when assembling the EVAC.
4. Tighten the heatsink screws in a sequential order 1 > 2 > 3 > 4 > 5 > 6 > 7 > 8. Loosen the screws in a reverse order.



9 Replace System Fan

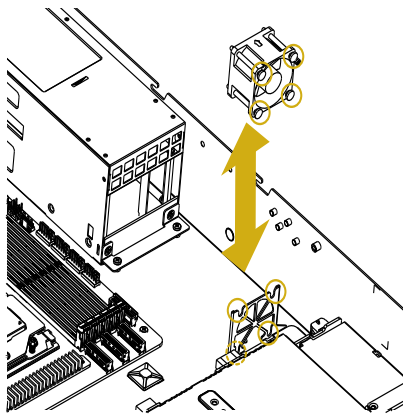
Replacing the 80x56mm Fan

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



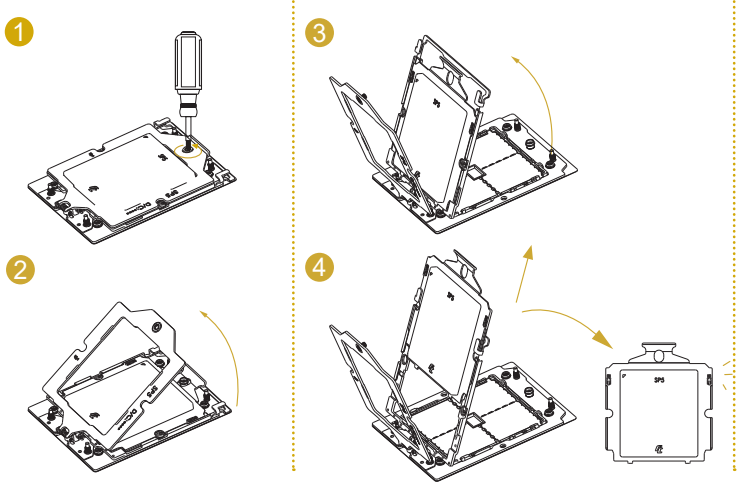
Replacing the 40x28mm Fan

1. Unplug the cables around the fan.
2. Lift to remove the failed fan.
3. Align the mounting holes on the 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.



10 Install CPU (LGA 6096P Socket)

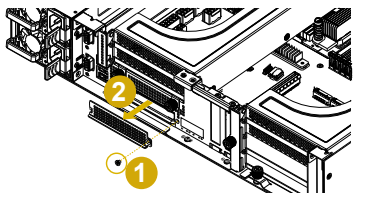
1. Locate the screw on the CPU socket and unscrew it. Open the first retention cover.
2. Open the second bracket. Take out the internal plastic cover.
3. Install CPU along with the carrier frame. Do not separate them. Make sure the carrier frame with CPU is closely attached to the rail frame while inserting it.
4. Close the bracket that holds the CPU. Close the retention cover and fasten the screw.



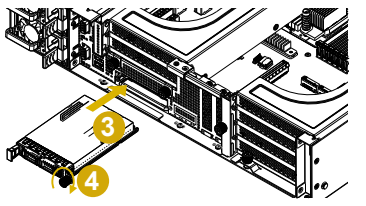
Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

11 Install OCP Card

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



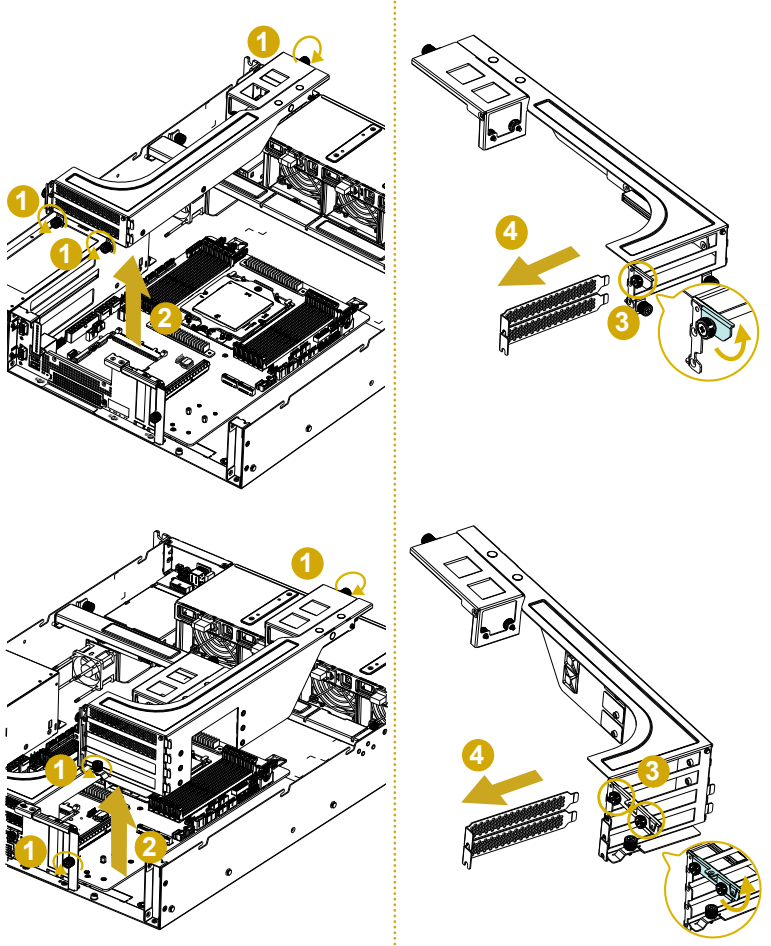
3. Install the OCP card into the slot.
4. Make sure the card is well seated and hand-tighten the thumbscrew on the face plate.



12 Install Add-in Card

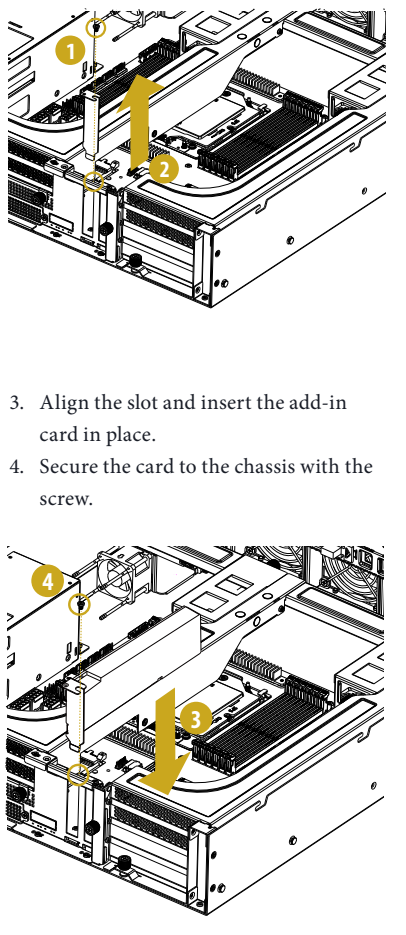
FHFL Dual-slot

1. Hand-r+elease the thumbscrews securing the riser-card bracket.
2. Push upward to remove the bracket.
3. Hand-release the thumbscrew(s) on the latch to lift the latch up.
4. Slide the blanking plates out sideways.
5. Install the add-in card into the bracket.
6. Close the latch down and hand-tighten the thumbscrew(s).
7. Install the assembly to the chassis.
8. Hand-tighten the thumbscrews on the assembly to the chassis.



HHHL Single-slot

1. Remove the screw on the blanking plate.
2. Slide the blanking plate out from above.
3. Align the slot and insert the add-in card in place.
4. Secure the card to the chassis with the screw.



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