P/N: 15G065331000AR V1.0

Quick Installation Guide

2U1G-B650/EVAC

ASRock Rack
www.asrockrack.com

2U1G-B650/EVAC

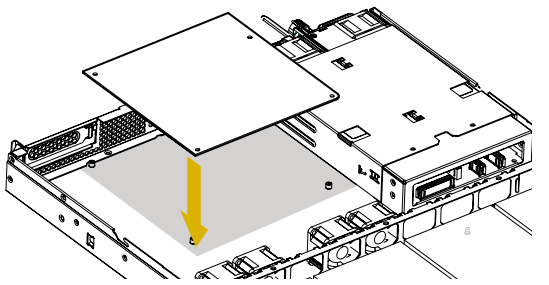
The User Manual is available for download from the ASRock Rack's official website at http://www.asrockrack.com.

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

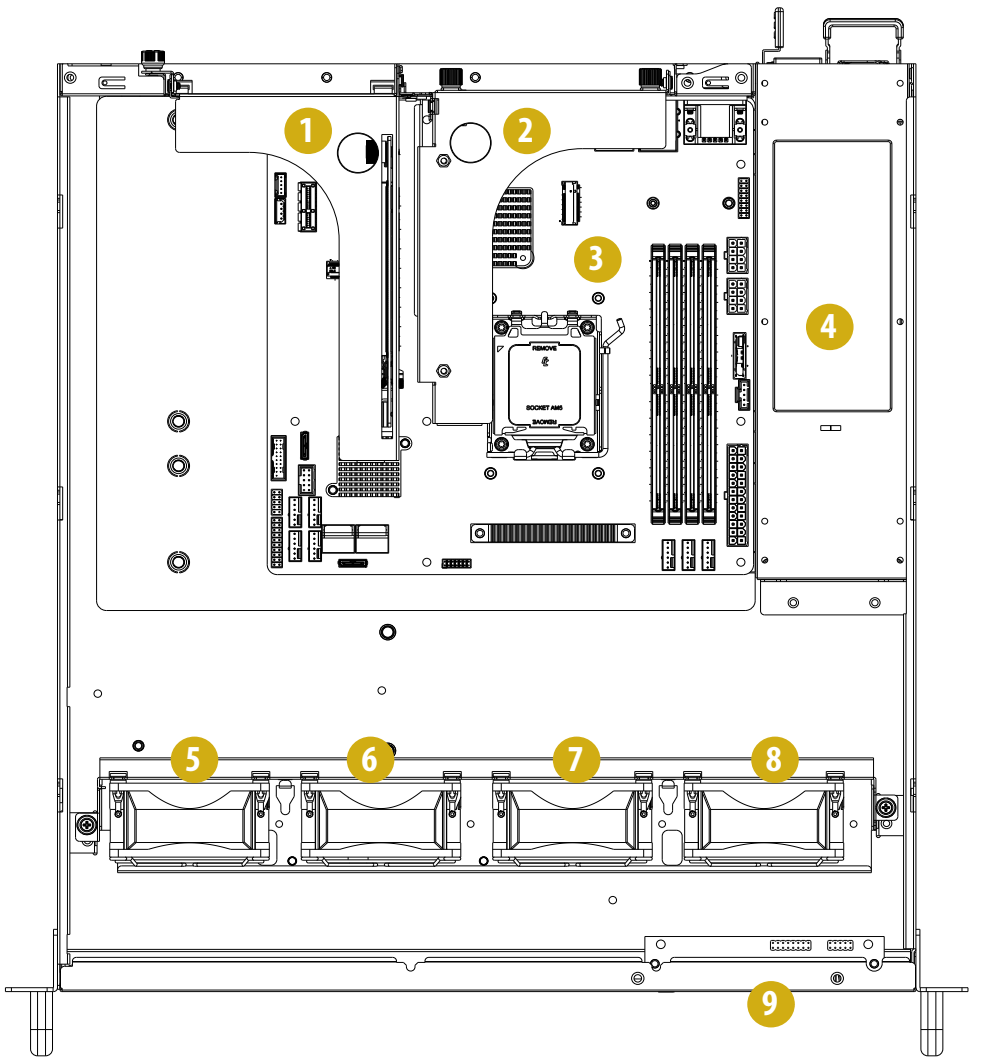
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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



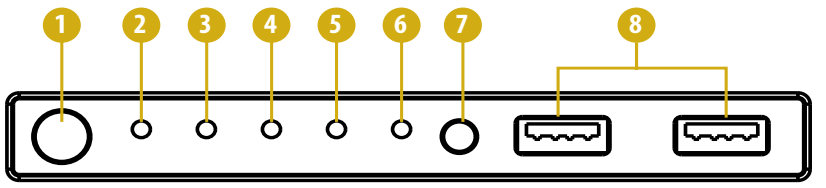
2 Internal Features



No.	Description
1	1 FHFL dual-slot PCIe5.0 x16 slots via RB2UX16L_G5_RDV
2	1 FHHL PCIe4.0 x4 slot via riser cable
3	Server motherboard
4	1+1 Hot-swap CRPS

No.	Description
5	1 PWM easy-swap 80x38mm fan (FAN4)
6	1 PWM easy-swap 80x38mm fan (FAN3)
7	1 PWM easy-swap 80x38mm fan (FAN2)
8	1 PWM easy-swap 80x38mm fan (FAN1)
9	Front I/O panel

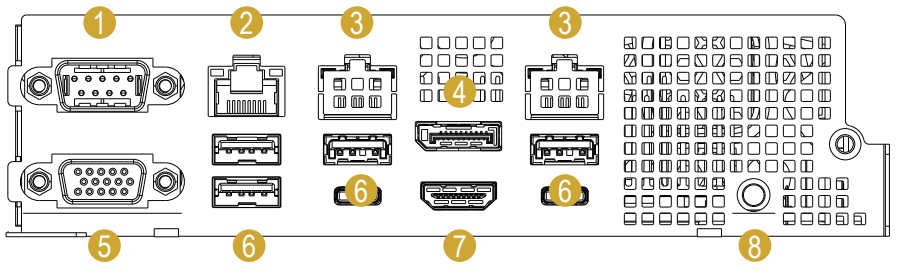
3 Front I/O Panel



No.	Description
1	Power button
2	Power status LED
3	Hard drive status LED
4	LAN1 activity LED

No.	Description
5	LAN2 activity LED
6	System fail LED
7	System reset button
8	2 Type-A (USB3.2 Gen1) ports

4 Rear I/O Panel

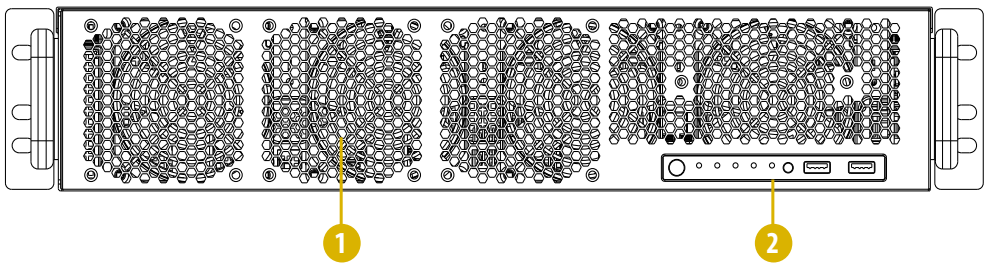


No.	Description
1	1 DB9 (COM) port
2	1 Dedicated IPMI LAN port
3	2 RJ45 (1GbE) LAN ports
4	1 DisplayPort

No.	Description
5	1 DB15 (VGA) port
6	4 Type-A (USB3.2 Gen1) ports
7	1 HDMI port
8	UID button w/ LED

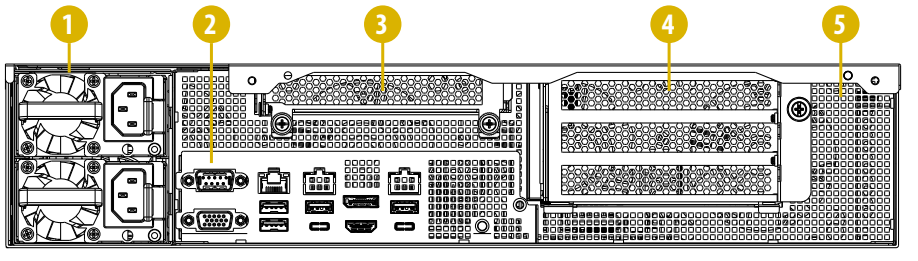
*Note: This illustration is without EVAC. For more information about EVAC, refer to section **10 Install the EVAC**.*

5 System Front Panel



No.	Description
1	Front vent
2	Front I/O panel

6 System Rear Panel

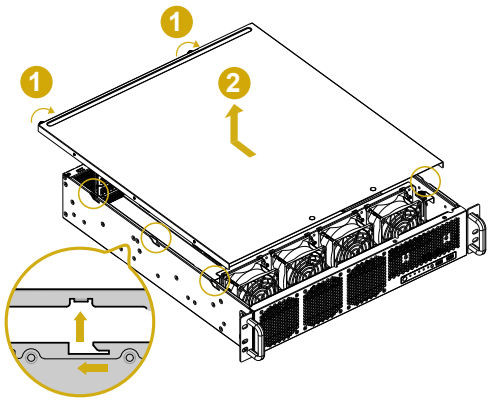


No.	Description
1	1+1 Hot-swap CRPS
2	Rear I/O panel (depends on the specification of the server motherboard)
3	1 FHHL PCIe4.0 x4 slot via riser cable
4	1 FHFL dual-slot PCIe5.0 x16 slots via RB2UX16L_G5_RDV
5	Rear vent

7 Remove and Install Top Cover

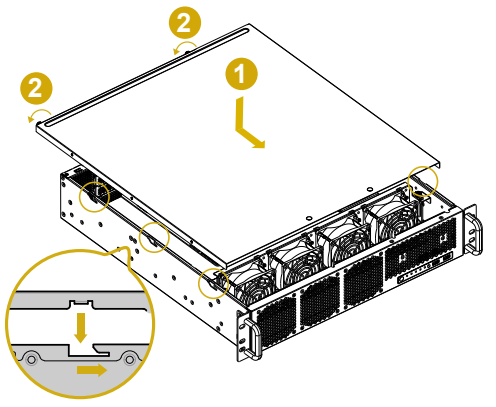
Removing the Server Top Cover

1. Hand-release the thumbscrews on the REAR side of the chassis.
2. Push the top cover toward the REAR of the chassis to release the cover from the locked position. Lift up and remove the top cover.



Installing the Server Top Cover

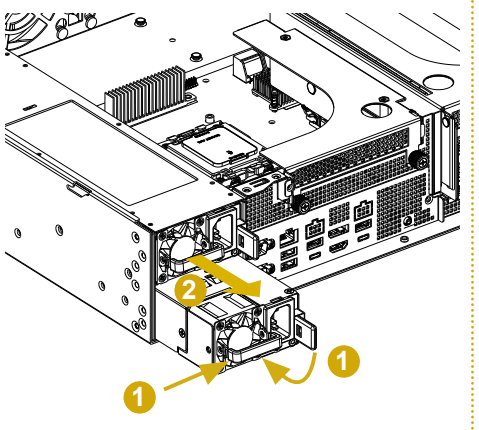
1. Lower the top cover on the chassis, making sure the side latches align with the cutouts. Slide the top cover toward the FRONT side.
2. Hand-tighten the thumbscrews on the REAR side of the chassis.



8 Replace Power Supply Unit

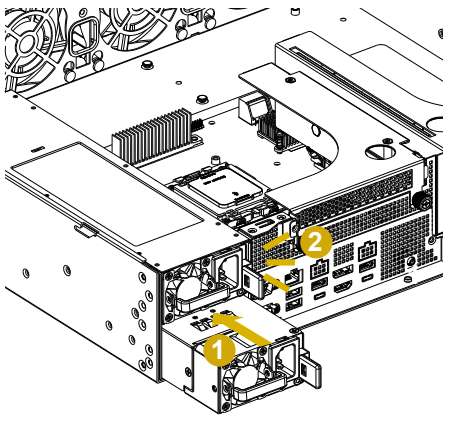
Removing the Power Supply Unit

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



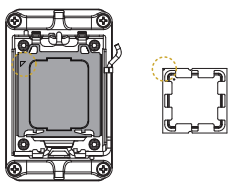
Installing the Power Supply Unit

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

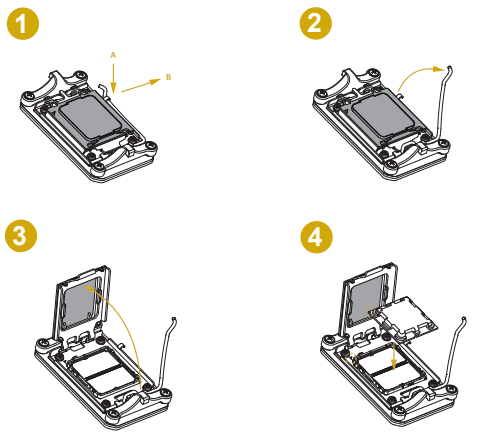


9 Install CPU (LGA 1817 Socket)

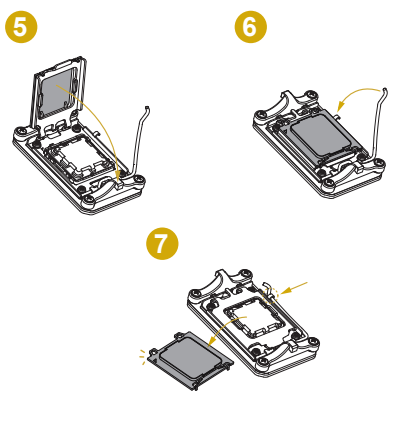
Turn the CPU to the correct orientation before opening the CPU socket cover.



Carefully place the CPU in as flat as possible. Do not drop it.



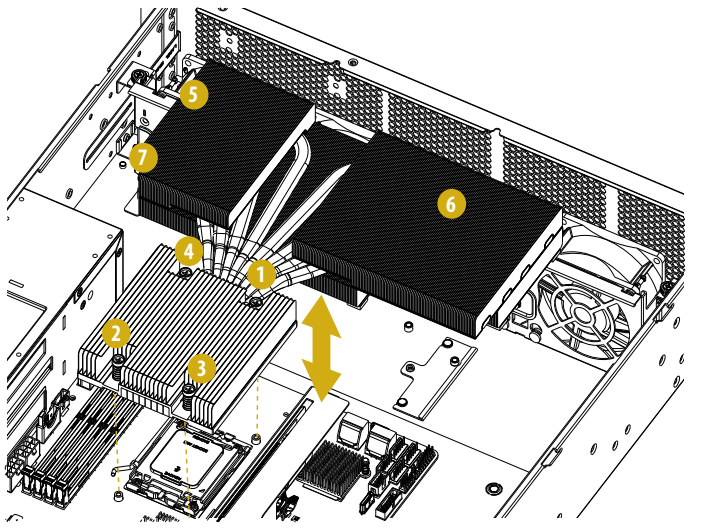
Make sure the CPU is aligned with the socket before locking it into place. Make sure the black cover plate is always in place until it pops off when closing the socket lever.



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

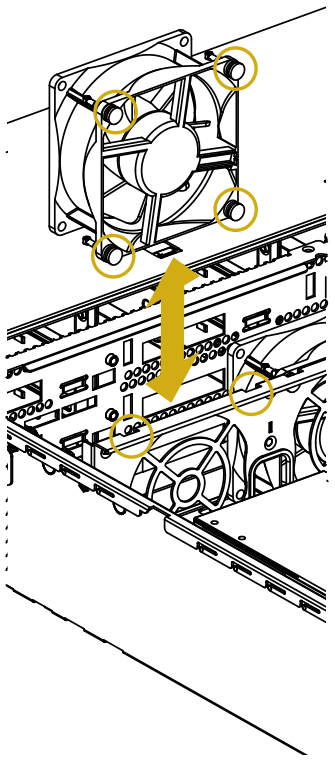
10 Install the EVAC

1. To avoid damaging the heat pipe, make sure to hold both the main part and outrigger simultaneously when assembling the EVAC.
2. Set the torque wrench to 4.8-5.2 lb-in. One fourth a turn each time.
3. Tighten the screws in a sequential order 1 > 2 > 3 > 4 > 5 > 6 > 7. Loosen the screws in a reverse order.



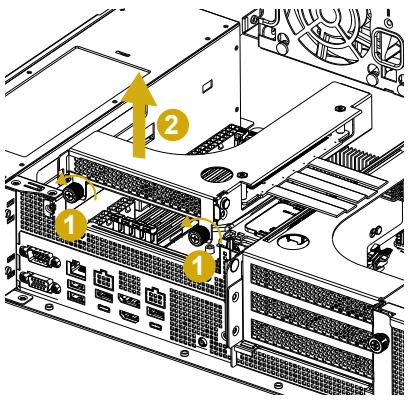
10 Replace System Fan

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. Gently place the fan onto the mounts.
4. Make sure the fan is well seated.

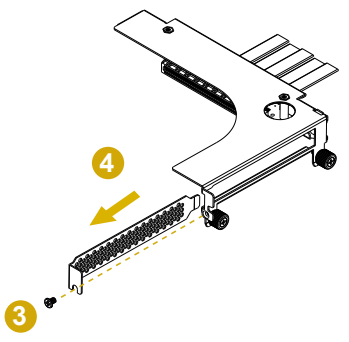


11 Install Add-in Card via Riser Cable

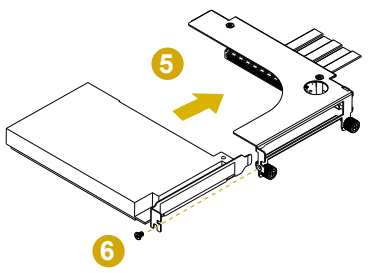
1. Hand-release the thumbscrews securing the riser cable bracket on the chassis.
2. Lift up and remove the riser cable bracket.



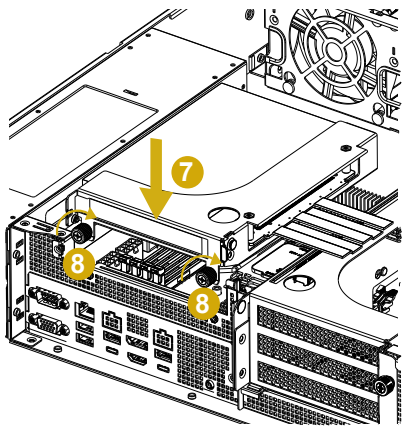
3. Remove the screw securing the blanking plate on the bracket.
4. Slide the blanking plate out sideways.



5. Install the add-in card to the riser cable bracket.
6. Secure the add-in card to the bracket with the screw.

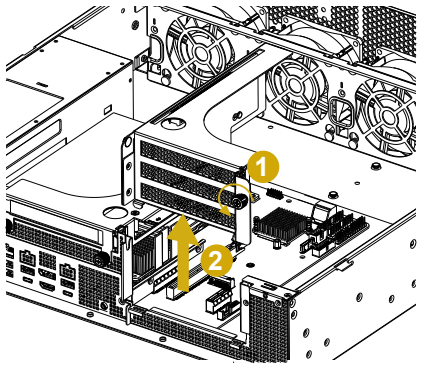


7. Align the add-in card assembly with the opening of the chassis. Place it into the chassis.
8. Hand-tighten the thumbscrews to secure the assembly to the chassis.

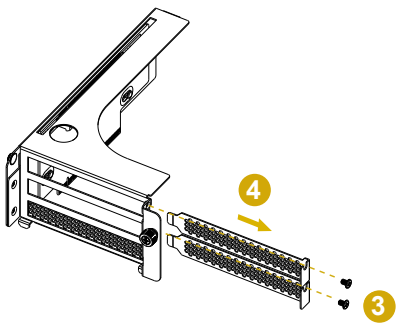


12 Install Add-in Card via Riser Card

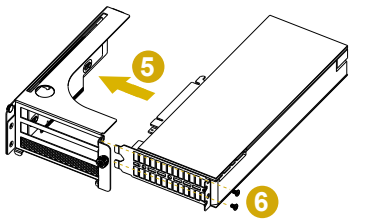
1. Hand-release the thumbscrew securing the riser-card bracket to the chassis.
2. Lift up and remove the riser-card bracket from the chassis.



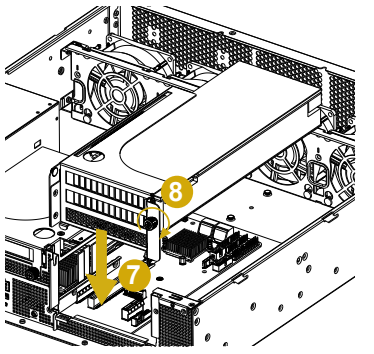
3. Remove the screws securing the blanking plates on the riser-card bracket.
4. Slide the blanking plates out sideways.



5. Install the add-in card to the riser-card bracket.
6. Secure the add-in card to the bracket with the screws.



7. Align the add-in card assembly with the opening of the chassis. Place it into the chassis.
8. 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.