



P/N: 15G065312000AR V1.0

Quick Installation Guide
1U12L4E-GENOA/2Q



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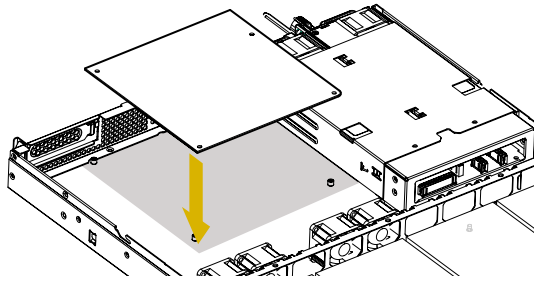
The User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

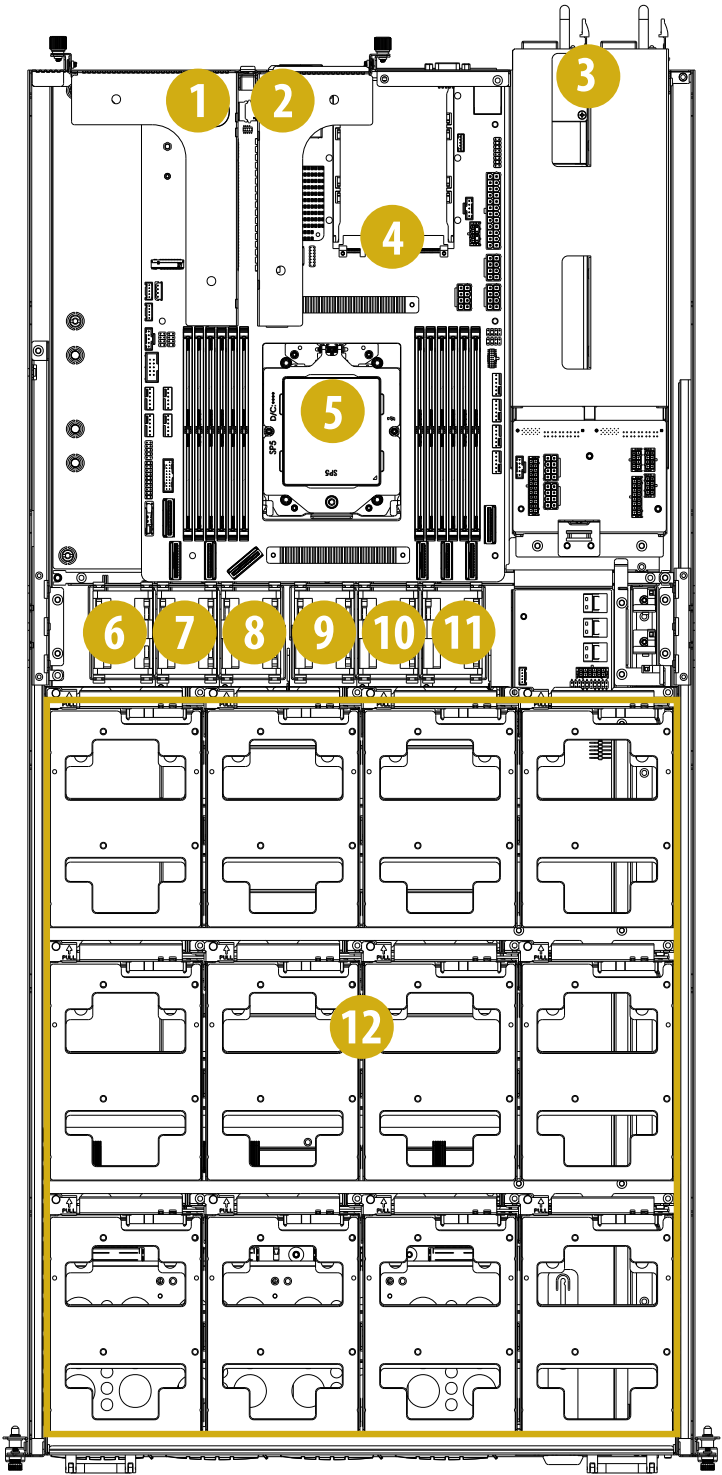
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

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

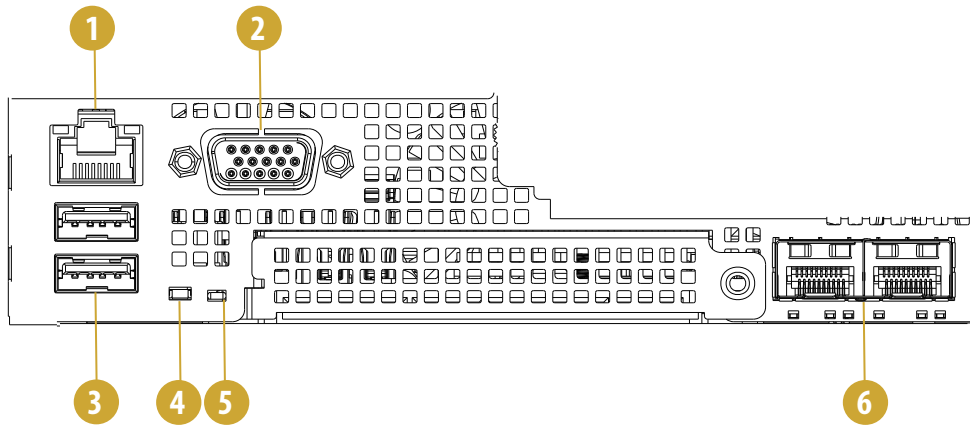


2 Internal Features



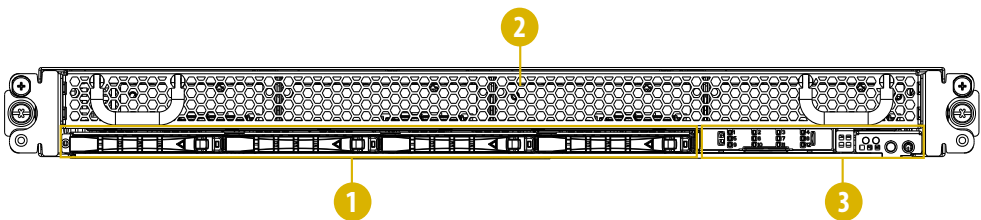
No.	Description
1	1 FHHL PCIe5.0 x16 via RB1UX16R_G5
2	1 HHHL PCIe5.0 x16 via RB1UX16L_G5
3	1+1 Hot-swap slim RPSU
4	1 OCP NIC 3.0 (PCIe5.0 x16) slot
5	Server board
6	PWM easy-swap 40x56mm fan (FAN6)
7	PWM easy-swap 40x56mm fan (FAN5)
8	PWM easy-swap 40x56mm fan (FAN4)
9	PWM easy-swap 40x56mm fan (FAN3)
10	PWM easy-swap 40x56mm fan (FAN2)
11	PWM easy-swap 40x56mm fan (FAN1)
12	12 Hot-swap 3.5" SATA drive bays

3 Rear I/O Panel



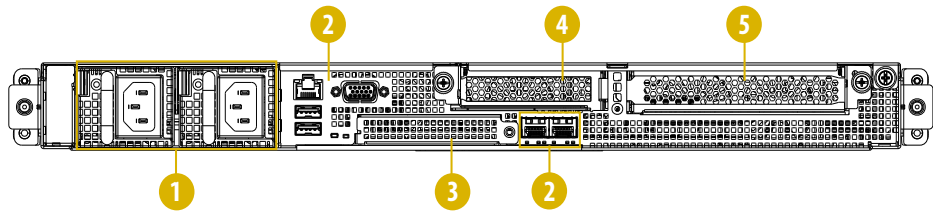
No.	Description	No.	Description
1	Dedicated IPMI LAN port (IPMI_LAN)	4	UID button
2	1 DB15 (VGA)	5	UID LED (UID_LED1)
3	2 Type-A (USB3.2 Gen1) ports (USB3_1_2)	6	2 SFP28 (25GbE) ports (LAN1, LAN2)

4 System Front Panel



No.	Description
1	4 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays, support 7mm height
2	Front vent
3	Front I/O panel

5 System Rear Panel



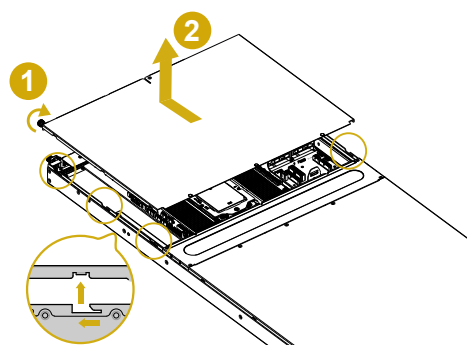
No.	Description
1	1+1 Hot-swap slim RPSU
2	Rear I/O panel (depends on the specification of the server board)
3	1 OCP NIC 3.0 (PCIe5.0 x16) slot
4	1 HHHL PCIe5.0 x16 via RB1UX16L_G5
5	1 FHHL PCIe5.0 x16 via RB1UX16R_G5



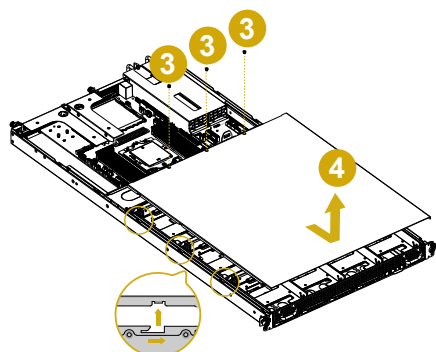
6 Remove and Install Top Cover

Removing the Server Top Cover

1. Hand-release the thumbscrew.
2. Push the top rear cover toward the REAR of the chassis to remove the cover.

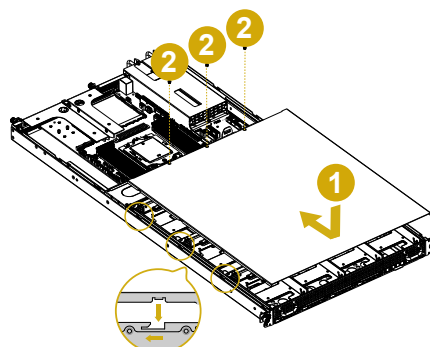


3. Remove the screws on the top cover.
4. Push the top front cover toward the FRONT of the chassis to remove the cover.

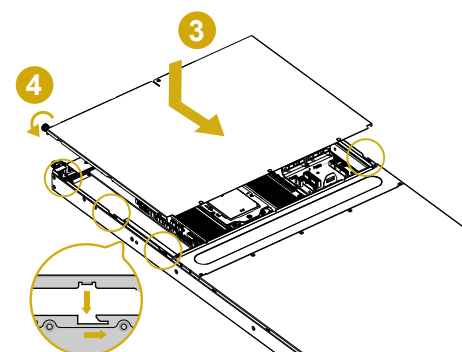


Installing the Server Top Cover

1. Align the side latches with the cutouts. Slide the top front cover toward the REAR of the chassis.
2. Secure the cover in place with screws.

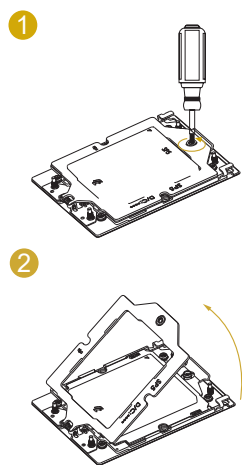


3. Align the side latches with the cutouts. Slide the top rear cover toward the FRONT side.
4. Hand-tighten the thumbscrew.

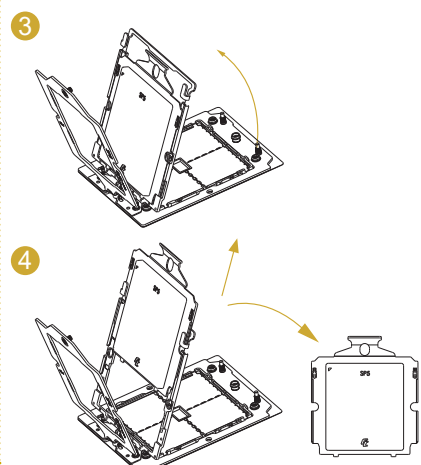


7 Install CPU and Heatsink (LGA6096 Socket)

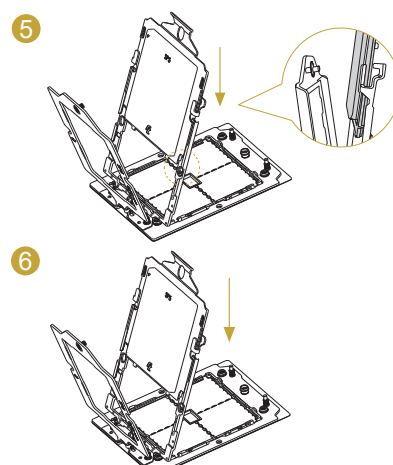
1. Locate the screw on the CPU socket and unscrew it. Open the first retention cover.



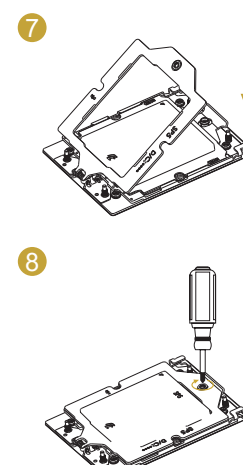
2. Open the second bracket. Take out the internal plastic cover.



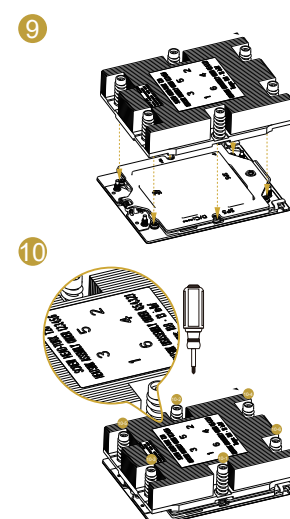
3. Install CPU along with the carrier frame. Do not separate them. Make sure the carrier frame with CPU is closely attached to the rail frame while inserting it.



4. Close the bracket that holds the CPU. Close the retention cover and fasten the screw.



5. Install the heatsink to the CPU carrier. Secure the heatsink to the CPU carrier with a screwdriver.

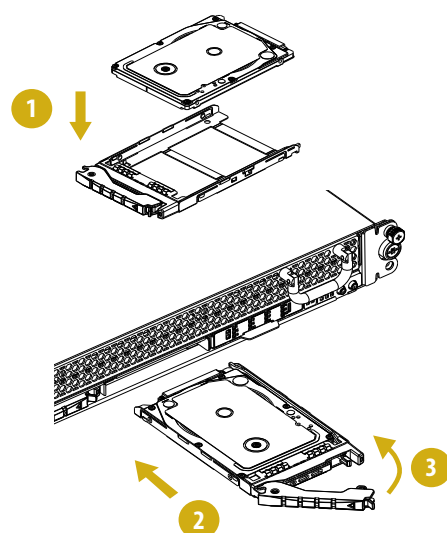


Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

8 Install Hard Drive

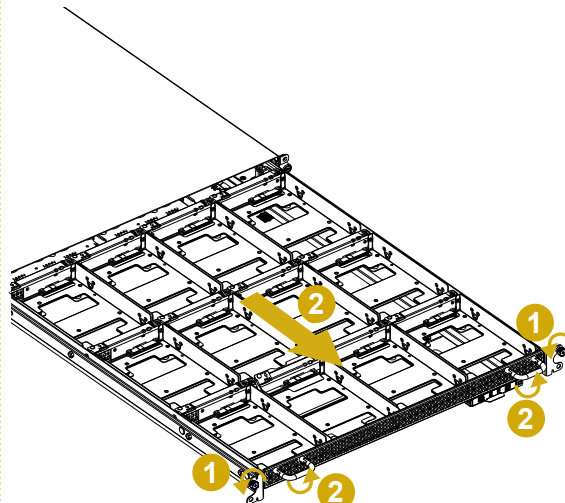
Installing 2.5" Hard Drive

1. Place a 2.5" hard drive into the carrier.
2. Slide the drive tray into the hard drive bay.
3. Push in the locking lever to lock the tray in place.

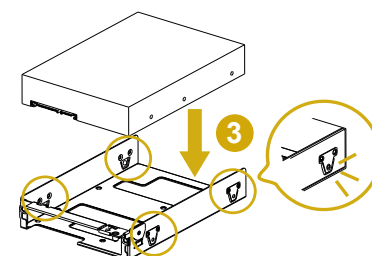


Installing 3.5" Hard Drive

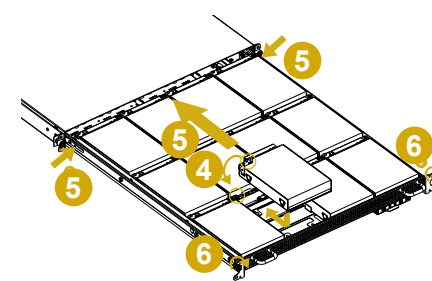
1. Hand-release the thumbscrews securing the drive bay.
2. Pull the drive bay out.



3. Align the mounting holes in the hard drive and the tray to install the hard drive into the tray until in place.

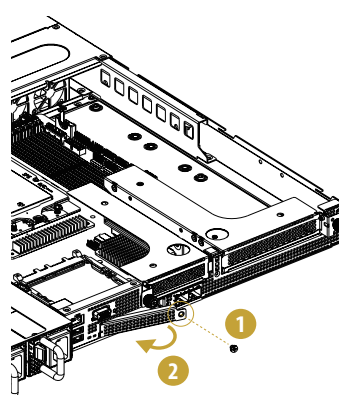


4. Place the assembly into the drive bay and use the latch to lock it in place.
5. After installing the assembly, lift the latches on the both sides of drive bay to push the tray into the chassis simultaneously.
6. Hand-tighten the thumbscrews to secure the drive tray to the chassis.

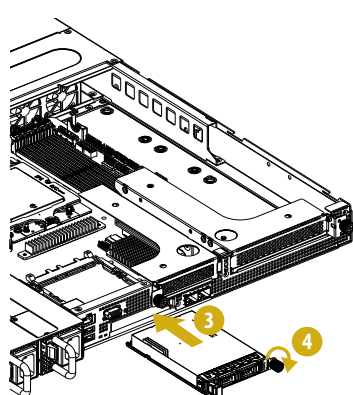


9 Install OCP Card

1. Remove the screw.
2. Remove the slot cover.

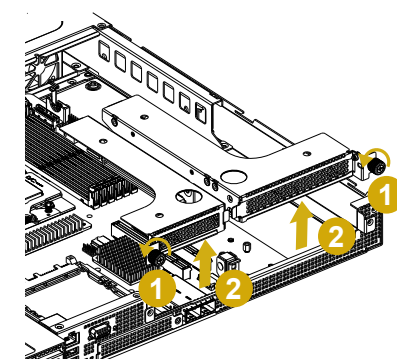


3. Install the OCP card into the slot.
4. Hand-tighten the thumbscrew on the face plate.

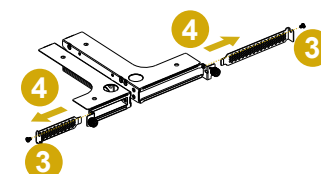


10 Install Add-in Card

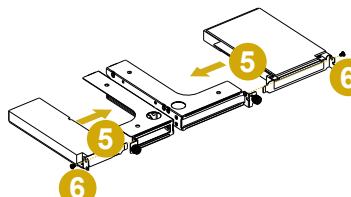
1. Hand-release the thumbscrews.
2. Lift up and remove the riser-card brackets from the chassis.



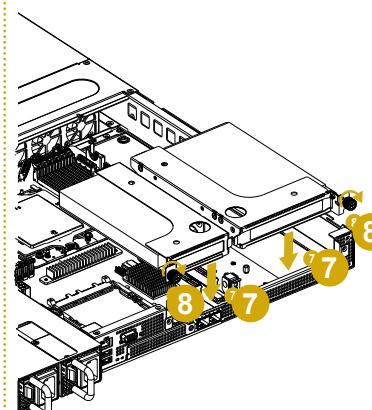
3. Remove the screws.
4. Slide the blanking plates out sideways.



5. Install the add-in cards to the brackets.
6. Secure the add-in cards to the brackets with screws.



7. Align the riser-card assemblies with the openings of the chassis. Place them into the chassis.
8. Hand-tighten the thumbscrews to secure the assemblies to the chassis.



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