



P/N: 15G065276000AR V1.0

Quick Installation Guide
1U12E-GENOA/2L2T



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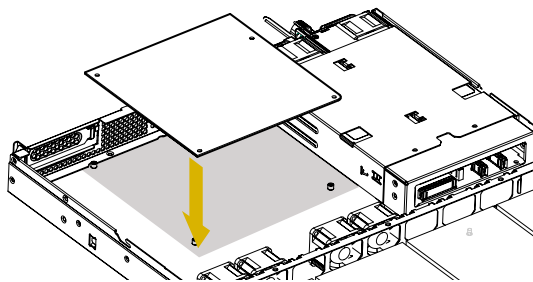
The User's Manual is available for download from the ASRock Rack's official website at <http://www.asrockrack.com>.

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

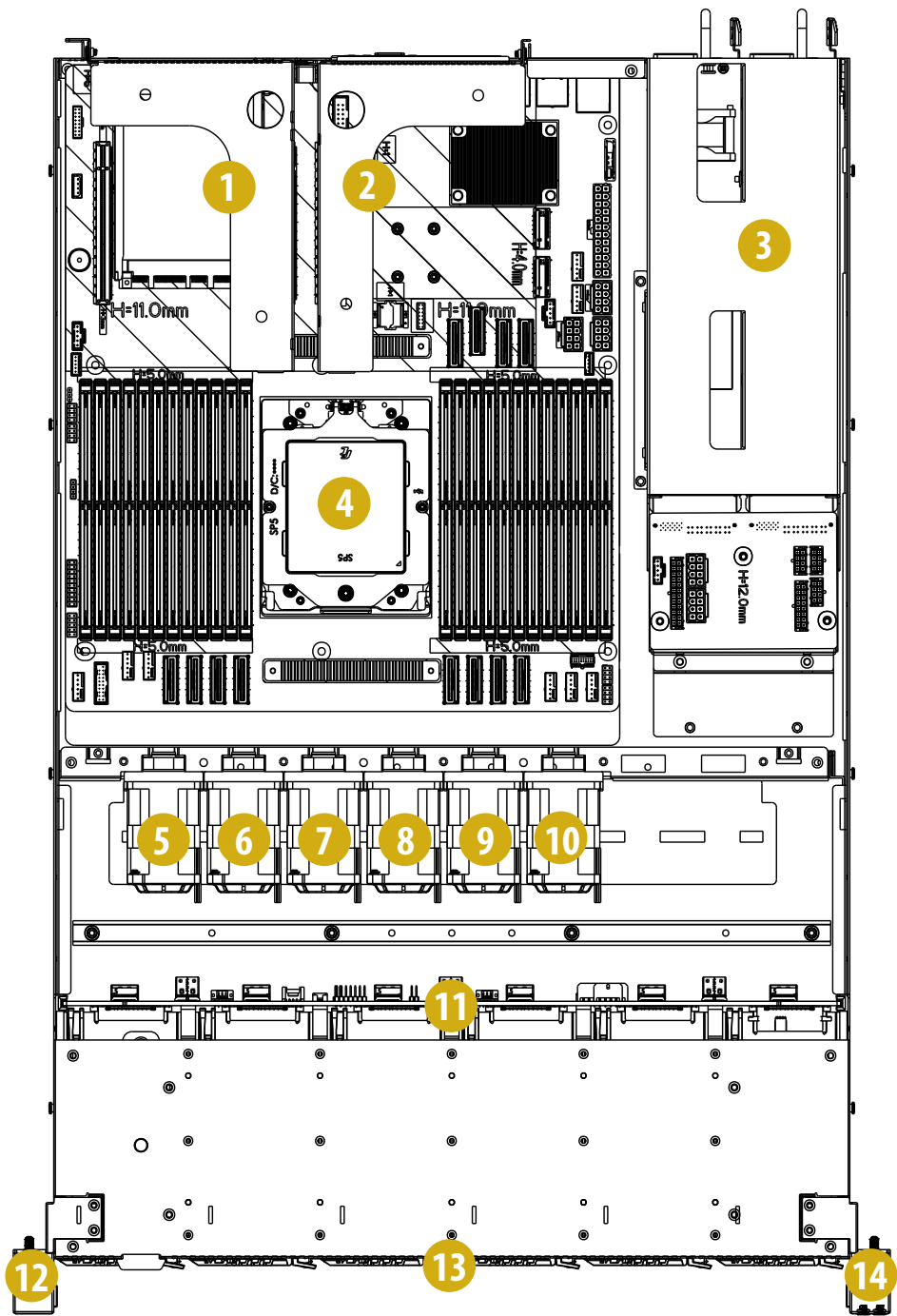
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

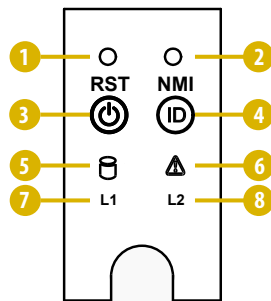


2 Internal Features



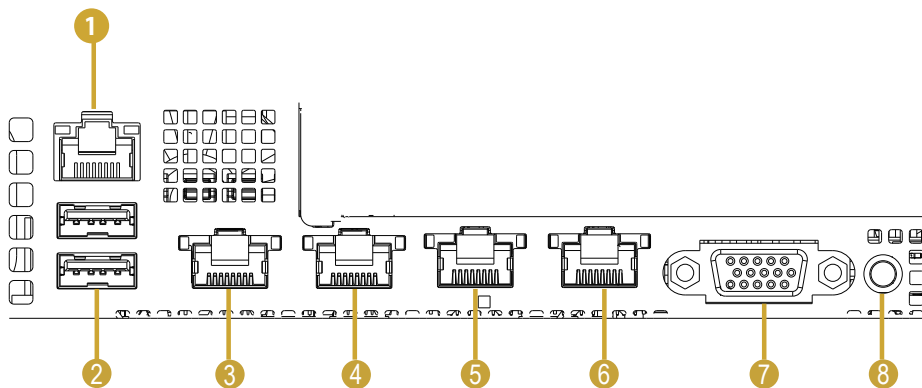
No.	Description
1	Riser-card PCIe x16 (RB1)
2	Riser-card PCIe x16 (RB2)
3	1+1 Slim PSU
4	Server board
5	System fan (FAN6)
6	System fan (FAN5)
7	System fan (FAN4)
8	System fan (FAN3)
9	System fan (FAN2)
10	System fan (FAN1)
11	2.5" Hard drive backplane board (BPB)
12	1 Type-A (USB 3.2 Gen1) port
13	12 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays
14	Front I/O panel

3 Front I/O Panel



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

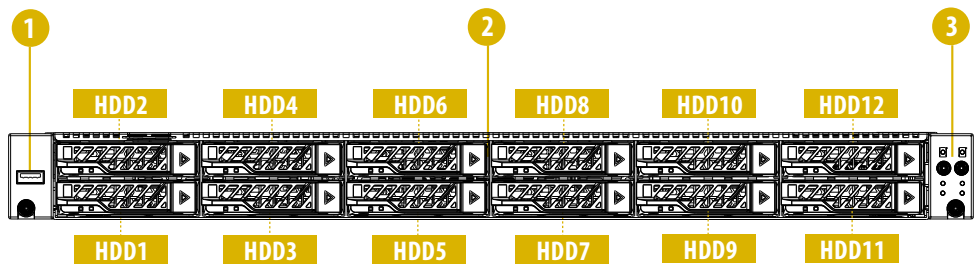
4 Rear I/O Panel



No.	Description
1	Dedicated IPMI LAN port (IPMI_LAN1)
2	2 Type-A (USB 3.2 Gen1) ports
3	RJ45 (1GbE) LAN port (LAN1)
4	RJ45 (1GbE) LAN port(LAN2)

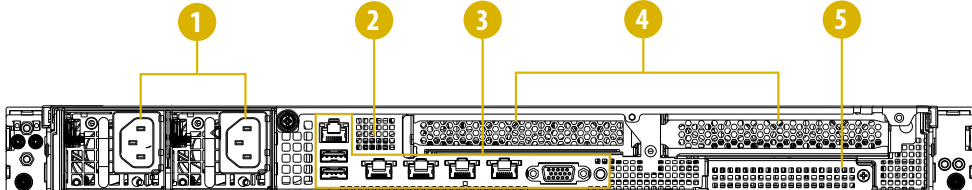
No.	Description
5	RJ45 (10GbE) LAN port (LAN3)
6	RJ45 (10GbE) LAN port (LAN4)
7	DB15 (VGA) port
8	UID button w/ LED

5 System Front Panel



No.	Description
1	1 Type-A (USB 3.2 Gen1) port
2	12 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays
3	Front I/O panel

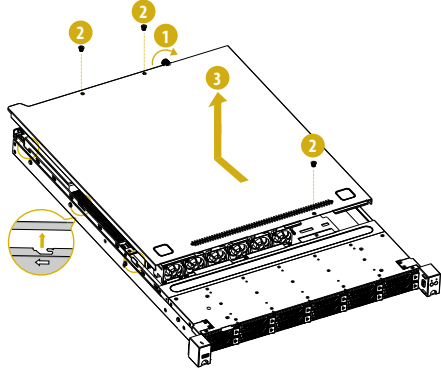
6 System Rear Panel



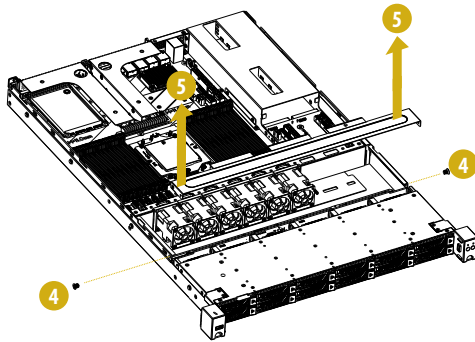
No.	Description
1	1+1 Slim PSU
2	Rear vent
3	Rear I/O panel (depends on the specification of the server board)
4	2 FHHL PCIe5.0 x16 slots (for the riser-cards)
5	1 OCP NIC 3.0 (PCIe5.0 x16) slot

7 Remove and Install Top Cover

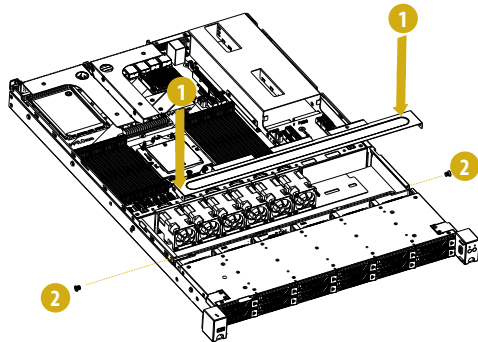
Hand-release the thumbscrew. Remove the screws securing the top rear cover. Push the cover toward the REAR to lift up and remove it.



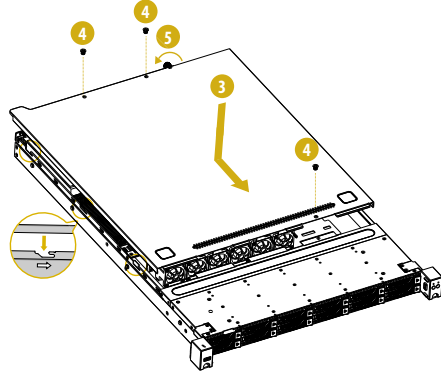
Remove all top front cover screws. Lift up and remove the cover.



Lower the top front cover to place it on the chassis. Tighten the screws to secure the cover to the chassis.

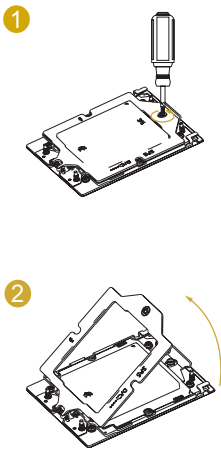


Lower and slide the top rear cover toward the FRONT. Secure the cover with the screws. Hand-tighten the thumbscrew.

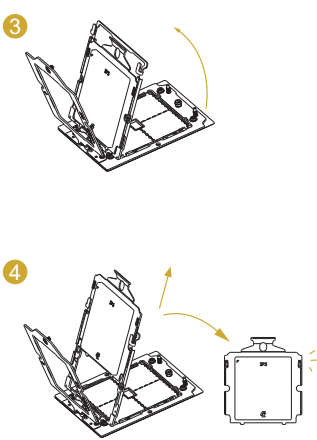


8 Install CPU and Heatsink (LGA6096 Socket)

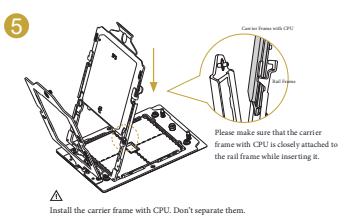
Locate the screw on the CPU socket and unscrew it. Open the first retention cover.



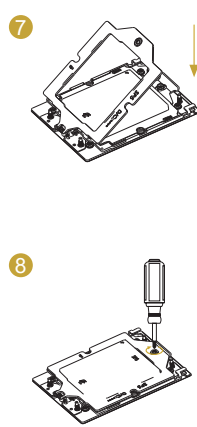
Open the second bracket. Take out the internal plastic cover.



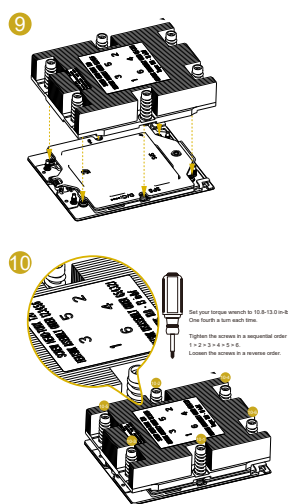
Install CPU along with the carrier frame. Do not separate them. Make sure the carrier frame with CPU is closely attached to the rail frame while inserting it.



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



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

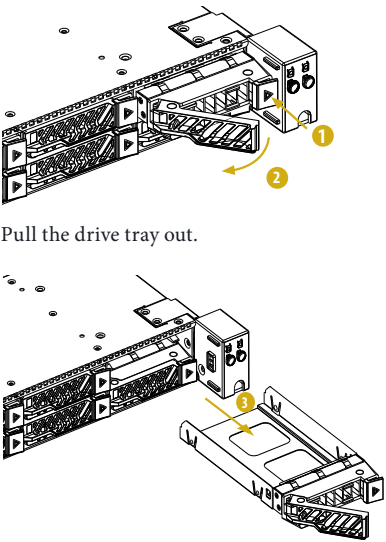


Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

9 Remove Hard Drive Tray and Install 2.5" Hard Drive

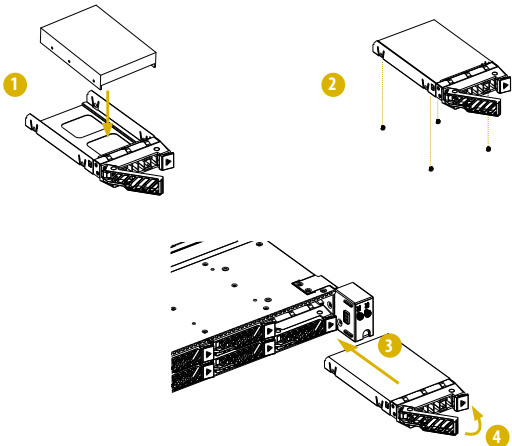
Remove Hard Drive Tray

Press the locking lever latch to open the lever.



Install 2.5" Hard Drive

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

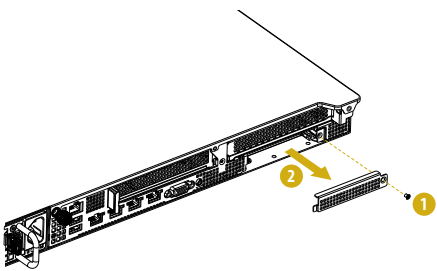


Secure the hard drive with the screws. Slide the assembly into the bay. Push in the locking lever to lock the tray in place.

10 Install OCP Card

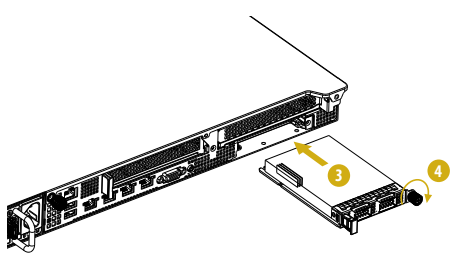
Remove Slot Cover

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



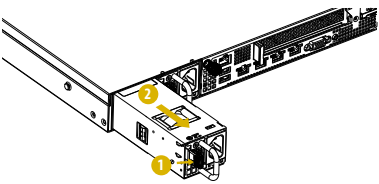
Install OCP Card

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

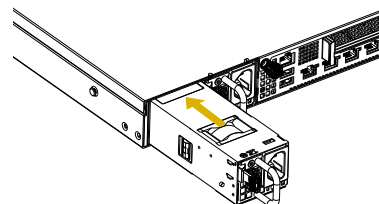


11 Replace PSU

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

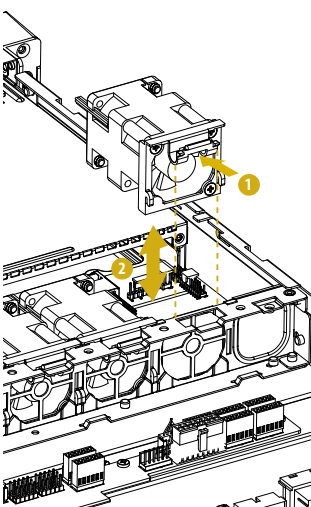


Slide the new PSU into the power supply bay.



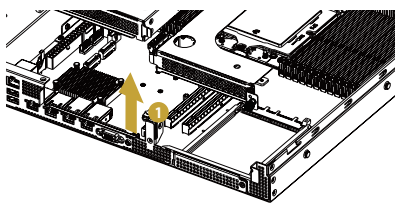
12 Replace Fan

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

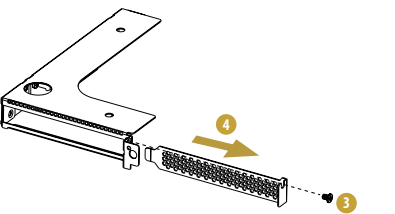


13 Install Add-in Card

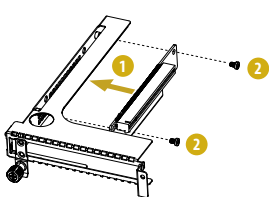
Hand-release the thumbscrew to lift up the riser-card bracket.



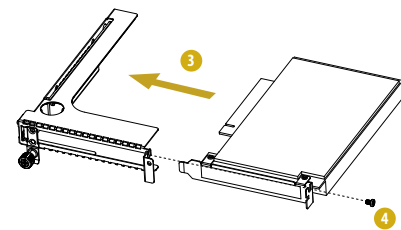
Remove the screw to slide the blanking plate out.



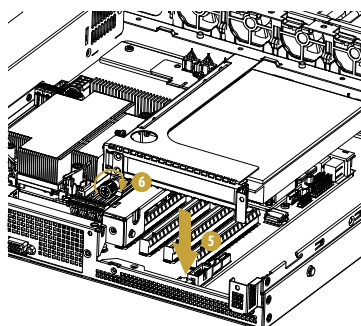
Install riser-card to the bracket and secure it with screws.



Install the add-in card to the 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.