



P/N: 15G065380000AR V1.0

Quick Installation Guide

8U8X-GNR2 SYN B200



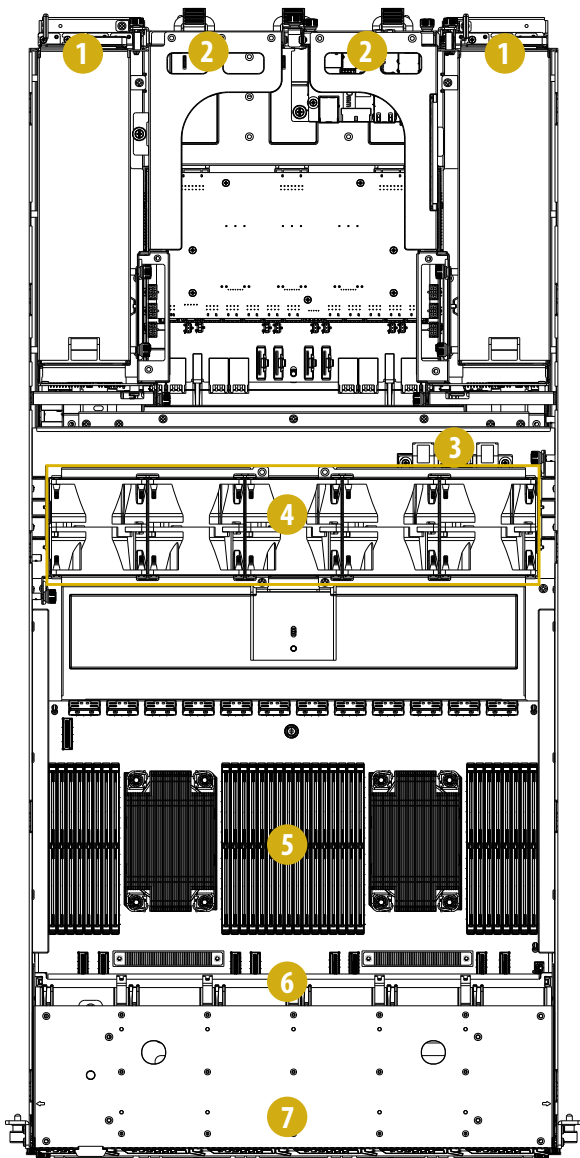
www.asrockrack.com 8U8X-GNR2 SYN B200

The User Manual is available for download from the ASRock Rack's official website at <https://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.

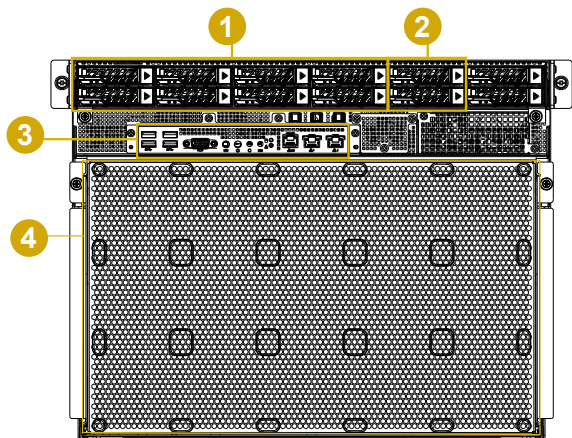
2 Internal Features



No.	Description
1	Top: 6+6 CRPS Bottom: 8 HHHL PCIe5.0 x16 slots and 4 PWM 40x40mm internal fans
2	Top: 2 FHHL PCIe5.0 x16 slots and rear I/O panel Bottom: 9 PWM 80x80mm rear fans
3	Fan board (FB)
4	5 PWM 80x80mm top fans

No.	Description
5	Server motherboard (MB)
6	Backplane board (BPB)
7	Top: 10 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays Front I/O panel (depends on the specification of the server motherboard) Bottom: 15 PWM 80x80mm front fans

5 System Front Panel

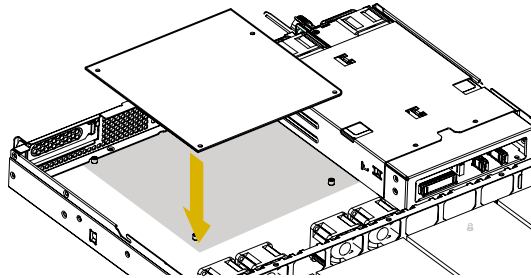


No.	Description
1	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe switch
2	2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU1 PE1

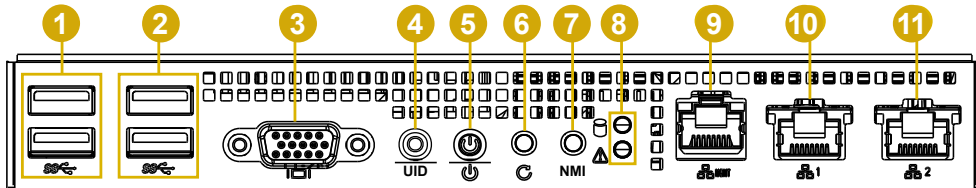
No.	Description
3	Front I/O panel (depends on the specification of the server motherboard)
4	15 PWM 80x80mm front fans

1 Replace Server Motherboard

- 1 Carefully unplug all cables and release screws 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.



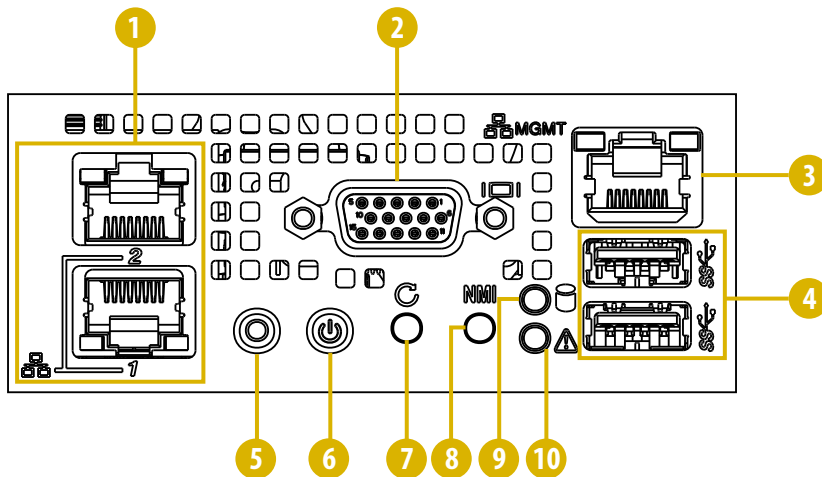
3 Front I/O Panel



No.	Description
1	2 Type-A (USB3.2 Gen1) ports (USB3_1_2)
2	2 Type-A (USB3.2 Gen1) ports (USB3_3_4)
3	1 DB15 (VGA) port
4	1 UID button w/ LED
5	1 Power button w/ LED
6	1 Reset button

No.	Description
7	1 NMI button
8	Top: 1 Hard drive activity LED Bottom: 1 System fault LED
9	1 Dedicated IPMI LAN port
10	1 RJ45 (1GbE) LAN port (LAN1)
11	1 RJ45 (1GbE) LAN port (LAN2)

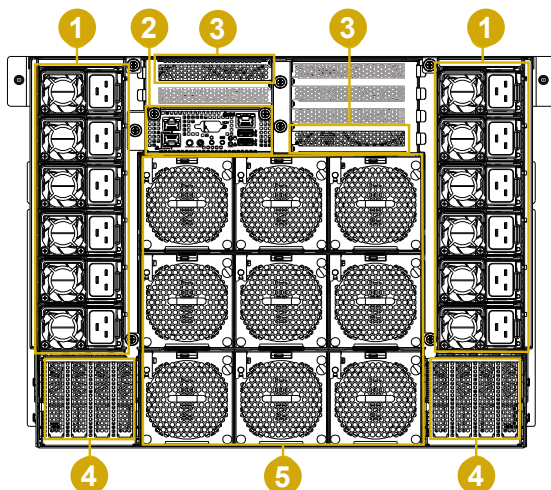
4 Rear I/O Panel



No.	Description
1	2 RJ45 (1GbE) LAN ports (LAN1, LAN2)
2	1 DB15 (VGA) port
3	1 Dedicated IPMI LAN port
4	2 Type-A (USB3.2 Gen1) ports
5	1 UID button w/ LED

No.	Description
6	1 Power button w/ LED
7	1 Reset button
8	1 NMI button
9	1 Hard drive activity LED
10	1 System fault LED

6 System Rear Panel



No.	Description
1	6+6 CRPS
2	Rear I/O panel
3	2 FHHL PCIe5.0 x16 slots

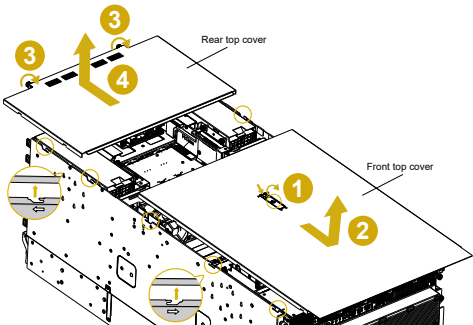
No.	Description
4	8 HHHL PCIe5.0 x16 slots 4 PWM 40x40mm internal fans
5	9 PWM 80x80mm rear fans



7 Remove and Install Top Cover

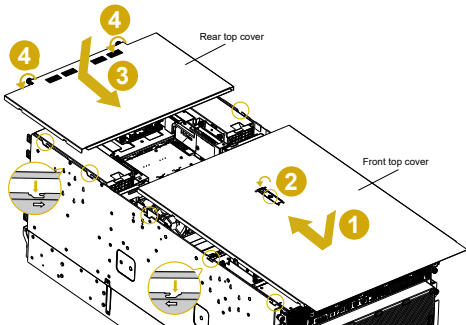
Removing Top Cover

1. Loosen the screw on the locking tab and press the button to unlock the front top cover.
2. Push the front top cover to remove it.
3. Hand-release the thumbscrews on the rear side.
4. Push the rear top cover to remove it.



Installing Top Cover

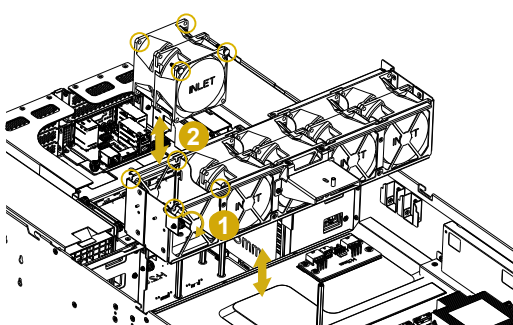
1. Align the side latches of front cover with the cutouts.
2. Press down the locking tab and tighten the screw to secure the front top cover in place.
3. Install the rear top cover to the chassis.
4. Hand-tighten the thumbscrews on the rear side.



8 Replace System Fan

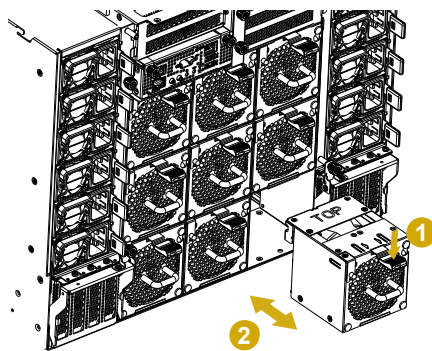
Replacing FAN16 ~ FAN20

1. Hand-release the thumbscrew and lift up the fan bar.
2. Remove the failed fan. Align the mounting holes with the mounts on the fan bar and install a new one.
3. Place the fan bar into the chassis and hand-tighten the thumbscrew.



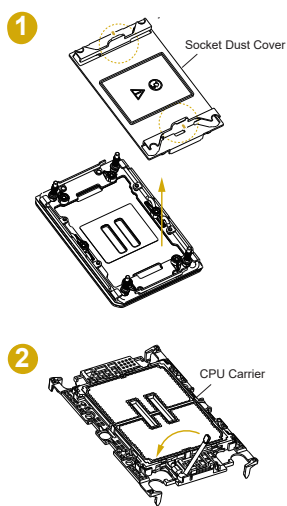
Replacing FAN21 ~ FAN29

1. Press the locking lever to pull failed fan out.
2. Align the connector on the bottom of the replacement fan with the connector in the bay to install a new one.

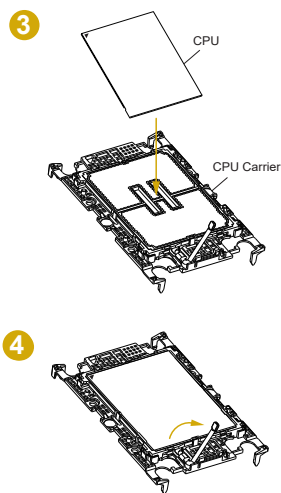


9 Install CPU and Heatsink (LGA 4710 Socket)

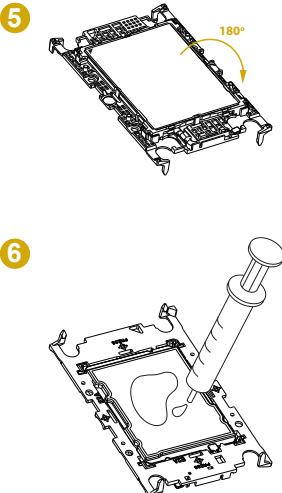
Remove the CPU socket cover and open the socket lever.



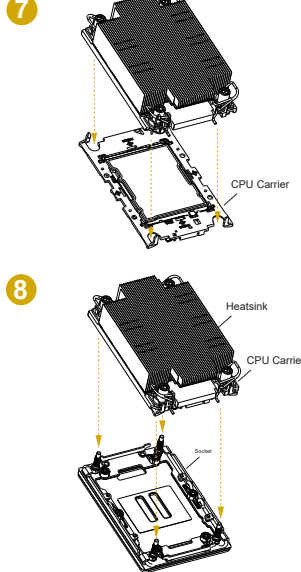
Install the processor to the carrier and close the socket lever.



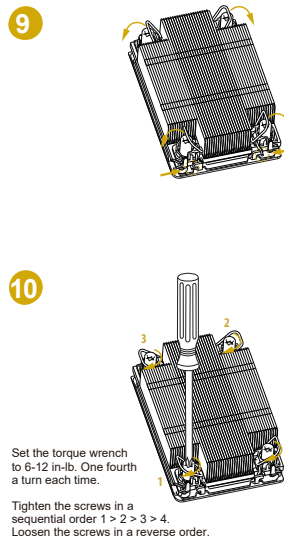
Carefully flip the carrier assembly. Apply a thermal paste.



Install the heatsink to the CPU carrier. Install the heatsink and CPU carrier to the socket.



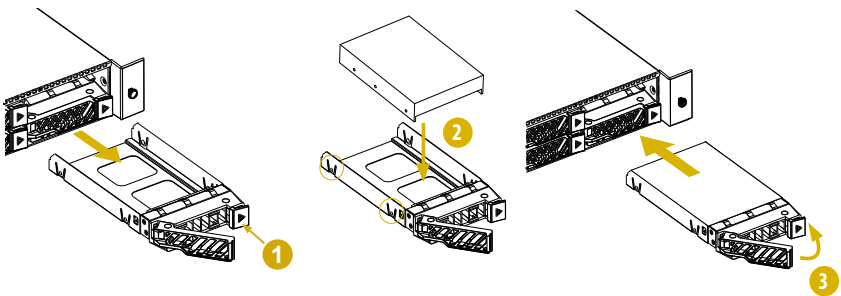
Tighten the corner fasteners. Secure the heatsink to the motherboard with a screwdriver.



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

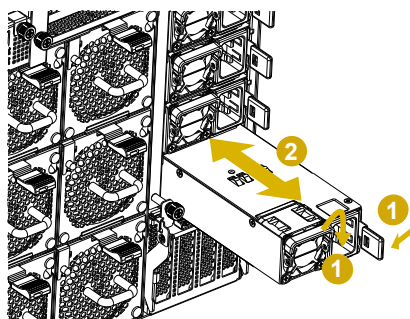
10 Install Hard Drive

1. Press the locking lever latch to pull drive tray out.
2. Place the hard drive into the tray and use the bumps on both sides of tray to secure the hard drive.
3. Slide the tray into the drive bay and push in the locking lever.



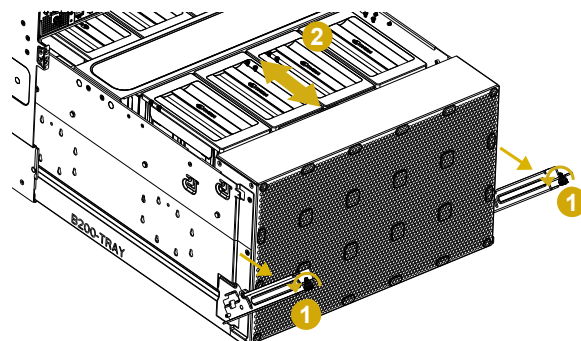
11 Replace Power Supply

1. Press the locking lever to pull out the PSU.
2. Slide a new PSU into the power supply bay until it clicks in place.



12 Open GPU Tray

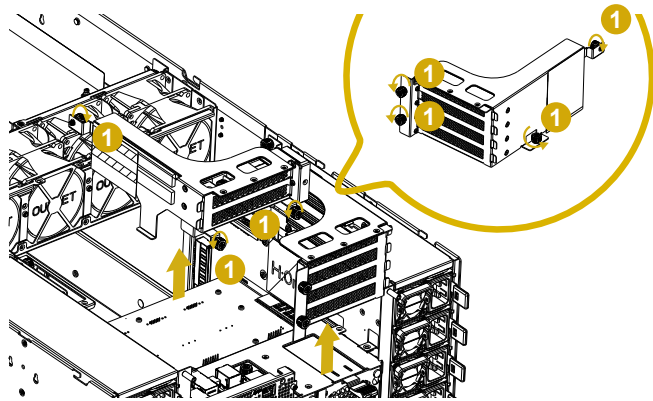
1. Hand-release the thumbscrews on both sides of the GPU tray to unlock the tray latches.
2. Pull to remove the tray from the chassis.



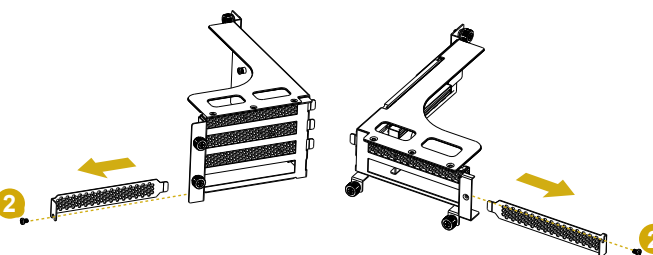
13 Install Add-in Card

FHHL PCIe5.0 x16

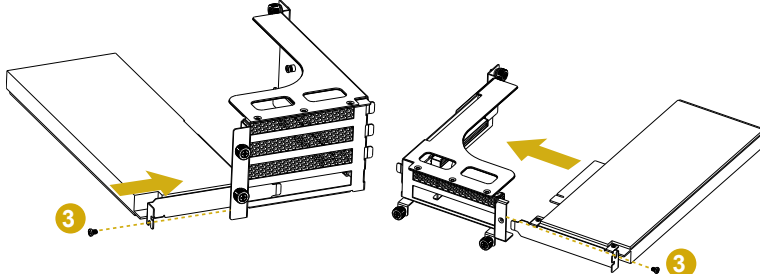
1. Hand-release the thumbscrews (3 for left and 4 for right) to lift brackets up.



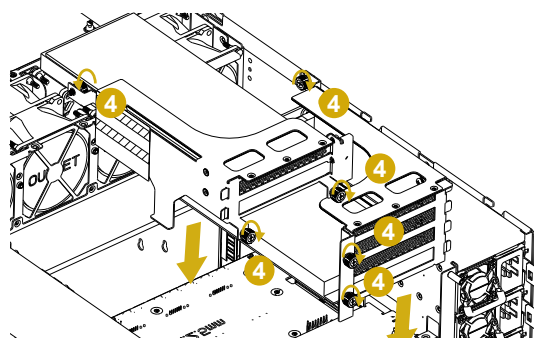
2. Remove the screws securing the blanking plates on the brackets to slide the blanking plates out.



3. Install the add-in cards to the brackets with the screws.

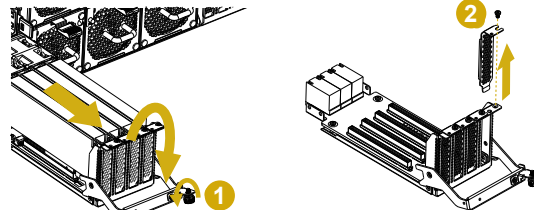


4. Install the add-in card assembly to the chassis and secure them with the thumbscrews.

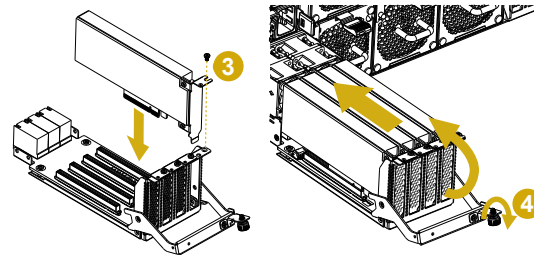


HHHL PCIe5.0 x16

1. Hand-release the thumbscrew and pull down the latch to remove the bracket.
2. Remove the screw to slide the blanking plate out.



3. Slot the add-in card to the board and secure it with the screw.
4. Slide the add-in card assembly into the bay. Lift the latch up and hand-tighten the thumbscrew.



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