



P/N: 15G065401000AR V1.0

Quick Installation Guide

4U8X-EGS2/DLC SYN B200



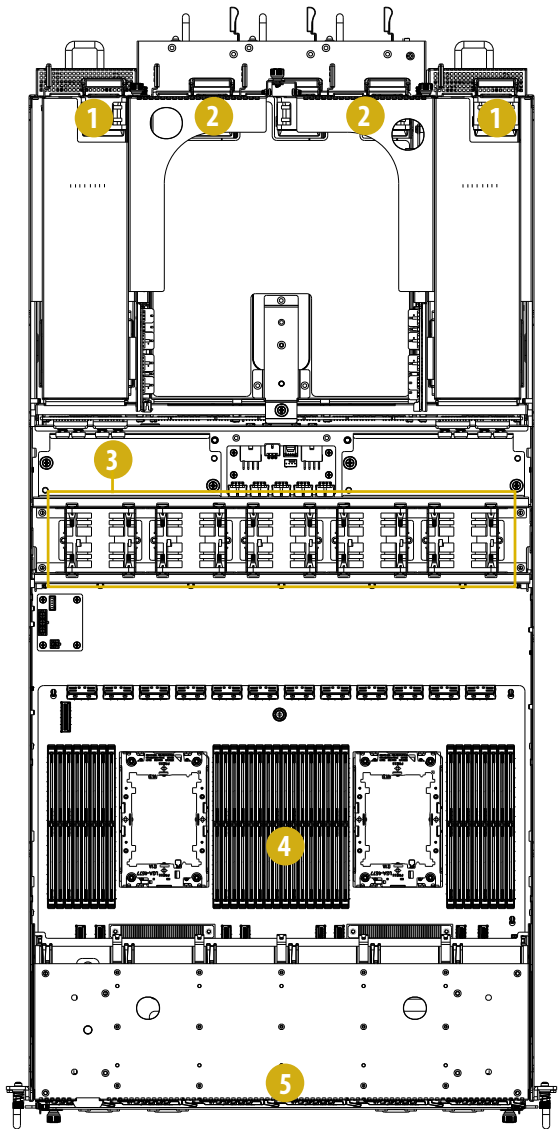
4U8X-EGS2/DLC SYN B200

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.

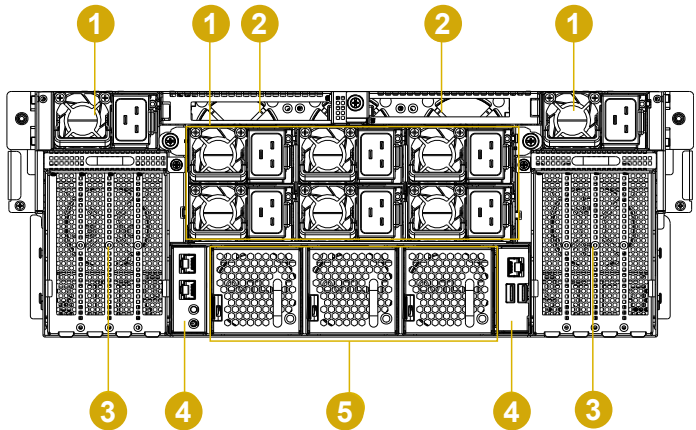
1. Unplug the power cord from the wall socket before touching any components.
2. To avoid damaging the components due to static electricity, NEVER place the components directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before installation.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

2 Internal Features



| No. | Description                                                               | No. | Description                                                                                                                                                                                                                                                                                    |
|-----|---------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | <b>Top:</b><br>2 Power supply units                                       | 3   | 5 PWM 60x56mm top fans<br><b>Left-to-right:</b> FAN1, FAN2, FAN3, FAN4, FAN5                                                                                                                                                                                                                   |
|     | <b>Bottom:</b><br>8 FHHL PCIe5.0 x16 slots<br>2 PWM 60x56mm internal fans | 4   | Server motherboard                                                                                                                                                                                                                                                                             |
| 2   | <b>Top:</b><br>2 FHHL PCIe5.0 x16 slots                                   | 5   | <b>Top:</b><br>8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe switch]<br>2 Hot-swap 2.5" NVMe (PCIe5.0 x4) [CPU1]/ SATA [PCH] drive bays<br>2 Hot-swap 2.5" SATA drive bays [PCH]<br>Front I/O panel (depends on the specification of the server motherboard)<br><b>Bottom:</b> Front vent |
|     | <b>Middle:</b><br>6 Power supply units                                    |     |                                                                                                                                                                                                                                                                                                |
|     | <b>Bottom:</b><br>Rear I/O panels<br>3 PWM 60x56mm rear fans              |     |                                                                                                                                                                                                                                                                                                |

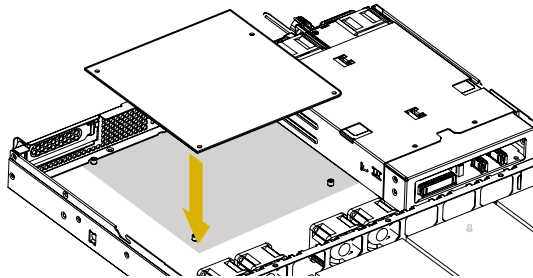
6 System Rear Panel



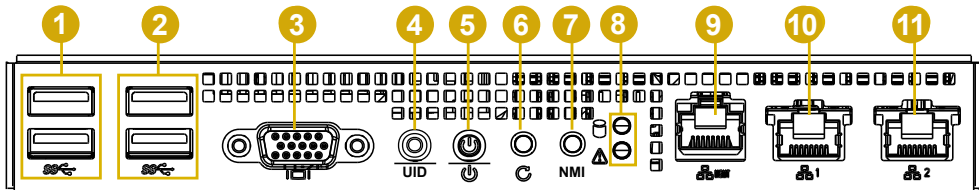
| No. | Description                                                               | No. | Description                                                                                                             | No. | Description                                                        |
|-----|---------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------|
| 1   | 4+4 CRPS                                                                  | 3   | 8 FHHL PCIe5.0 x16 slots<br><b>Left-to-right:</b> PCIe8~PCIe5 [CPU0], PCIe4~PCIe1 [CPU1]<br>2 PWM 60x56mm internal fans | 4   | Rear I/O panels                                                    |
| 2   | 2 FHHL PCIe5.0 x16 slots<br><b>Left:</b> Riser_L<br><b>Right:</b> Riser_R |     |                                                                                                                         | 5   | 3 PWM 60x56mm rear fans<br><b>Left-to-right:</b> FAN10, FAN9, FAN8 |

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.

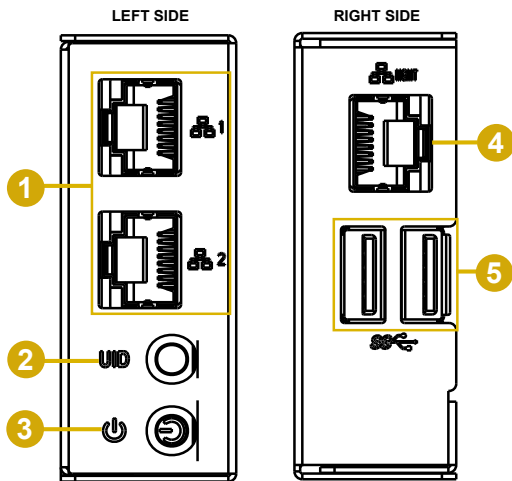


3 Front I/O Panel



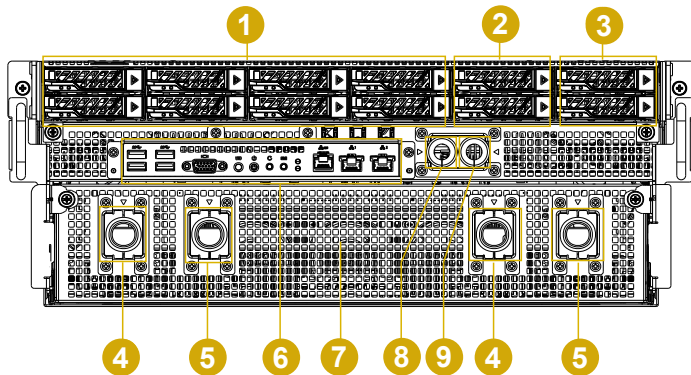
| No. | Description                             | No. | Description                                                            |
|-----|-----------------------------------------|-----|------------------------------------------------------------------------|
| 1   | 2 Type-A (USB3.2 Gen1) ports (USB3_1_2) | 8   | <b>Top:</b> Hard drive activity LED<br><b>Bottom:</b> System fault LED |
| 2   | 2 Type-A (USB3.2 Gen1) ports (USB3_3_4) | 9   | Dedicated IPMI LAN port, shares with rear I/O panels                   |
| 3   | DB15 (VGA) port                         | 10  | RJ45 (1GbE) LAN port (LAN1), shares with rear I/O panels               |
| 4   | UID button w/ LED                       | 11  | RJ45 (1GbE) LAN port (LAN2), shares with rear I/O panels               |
| 5   | Power button w/ LED                     |     |                                                                        |
| 6   | Reset button                            |     |                                                                        |
| 7   | NMI button                              |     |                                                                        |

4 Rear I/O Panels



| No. | Description                                                      |
|-----|------------------------------------------------------------------|
| 1   | 2 RJ45 (1GbE) LAN ports (LAN1, LAN2), share with front I/O panel |
| 2   | UID button w/ LED                                                |
| 3   | Power button w/ LED                                              |
| 4   | Dedicated IPMI LAN port, shares with front I/O panel             |
| 5   | 2 Type-A (USB3.2 Gen1) ports                                     |

5 System Front Panel

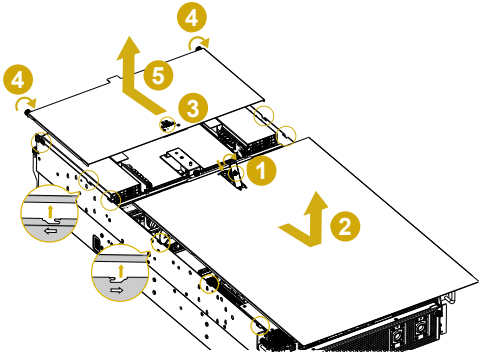


| No. | Description                                                                                                                                               | No. | Description                                                              |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------|
| 1   | 8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe switch]<br><b>Left-to-right, top-to-bottom:</b> NVME2, NVME4, NVME6, NVME8, NVME1, NVME3, NVME5, NVME7 | 3   | 2 Hot-swap 2.5" SATA drive bays [PCH]                                    |
|     | 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) [CPU1]/ SATA [PCH] drive bays<br><b>Top:</b> NVME10<br><b>Bottom:</b> NVME9                                             | 4   | Supply tube connectors (blue) for GPU                                    |
| 2   |                                                                                                                                                           | 5   | Return tube connectors (red) for GPU                                     |
|     |                                                                                                                                                           | 6   | Front I/O panel (depends on the specification of the server motherboard) |
|     |                                                                                                                                                           | 7   | Front vent                                                               |
|     |                                                                                                                                                           | 8   | Supply tube connector (blue) for CPU                                     |
|     |                                                                                                                                                           | 9   | Return tube connector (red) for CPU                                      |



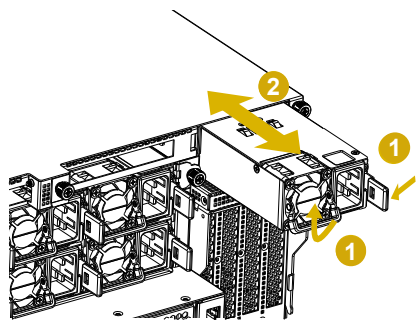
## 7 Remove Top Cover

1. Loosen the screw and press the button.
2. Push the front top cover to lift up and remove it.
3. Release the spring button.
4. Hand-release the thumbscrews on the rear side.
5. Push the rear top cover to lift up and remove it.



## 8 Replace Power Supply

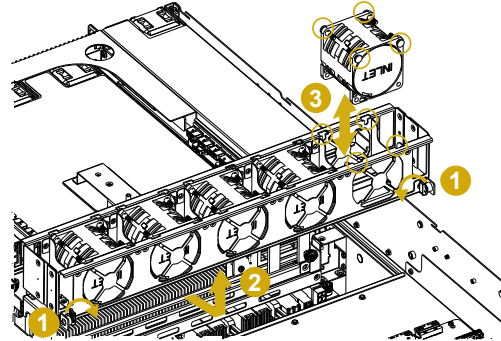
1. Hold onto the power supply handle while pressing the locking lever towards the power supply handle.
2. Pull out the PSU. Slide a new PSU into the power supply bay until it clicks in place.



## 9 Replace System Fan

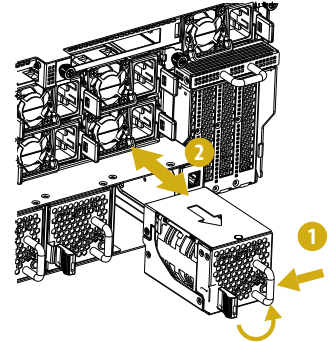
### Replacing Top Fan

1. Rotate two plungers 90° inward.
2. Pull the fan bar toward the FRONT and remove it.
3. Remove the failed fan.
4. Align the mounting holes with the mounts on the fan bar and install a new one.

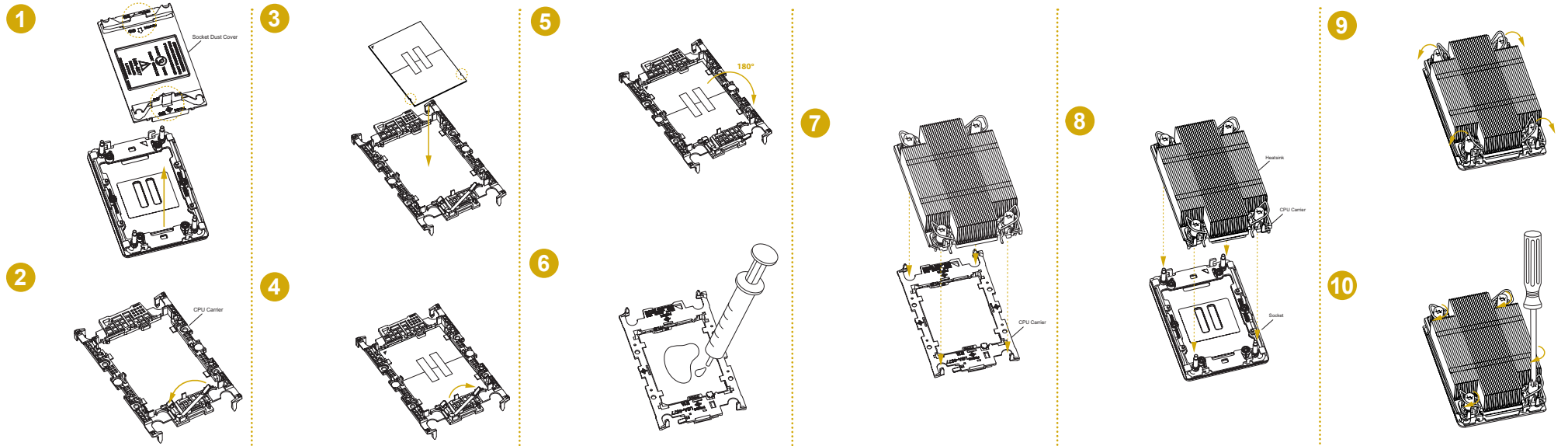


### Replacing Rear Fan

1. Hold onto the fan handle while pressing the locking lever towards the handle.
2. Pull the failed fan out.
3. Place a new fan into the bay and make sure the fan is well seated.



## 10 Install CPU and Heatsink (LGA 4677 Socket)

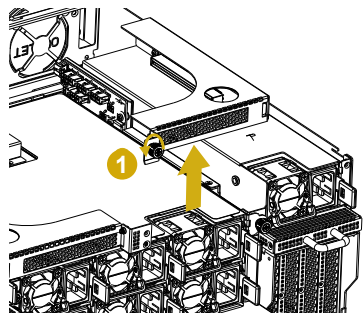


Note: We recommend using the CPU installation tool to avoid CPU pin-bent problem.

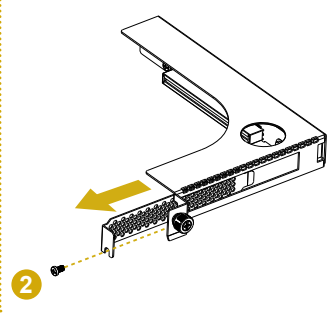
## 11 Install Add-in Card

### Riser\_R

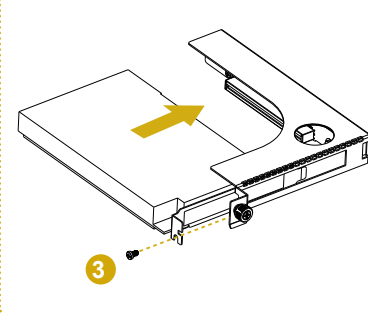
1. Hand-release the thumbscrew to lift Riser\_R bracket up.



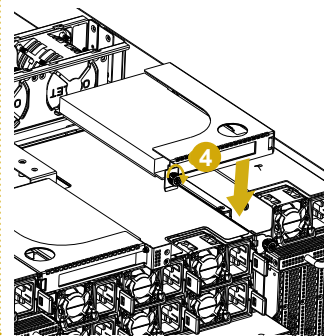
2. Remove the screw to slide the blanking plate out.



3. Install the add-in card to the bracket with the screw.



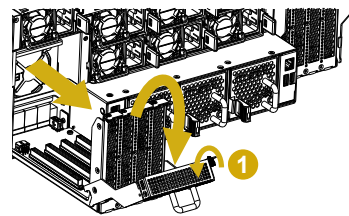
4. Install the add-in card assembly to the chassis and secure it with the thumbscrew.



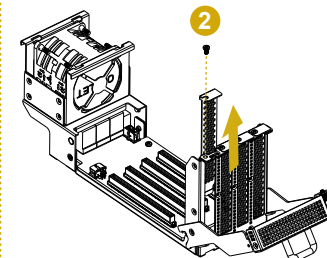
Note: Remove Riser\_R bracket first, then Riser\_L bracket. The installations of add-in cards into the Riser\_R bracket and Riser\_L bracket are similar.

### PCIe1~PCIe8

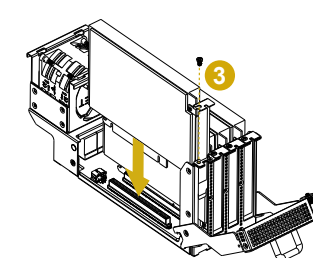
1. Hand-release the thumbscrew and pull down the latch to remove the riser-card bracket.



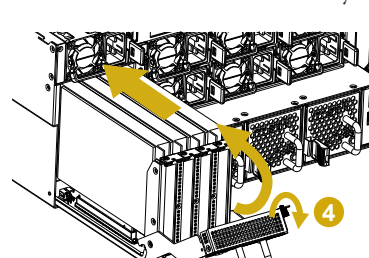
2. Remove the screw to slide the blanking plate out.



3. Slot the add-in card to the riser-card board and secure it with the screw.

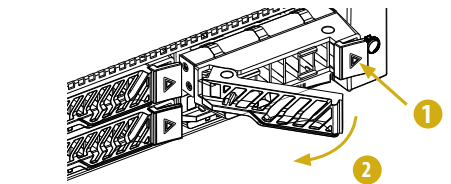


4. Slide the add-in card assembly to the bay. Lift the latch up and hand-tighten the thumbscrew to secure assembly.

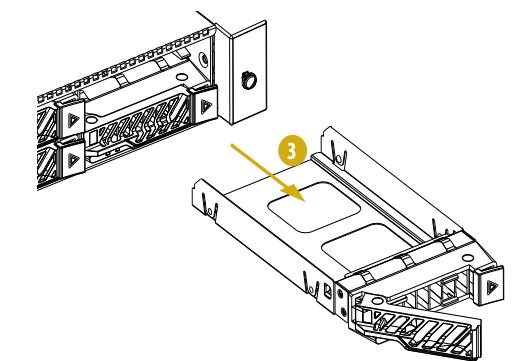


## 12 Install Hard Drive

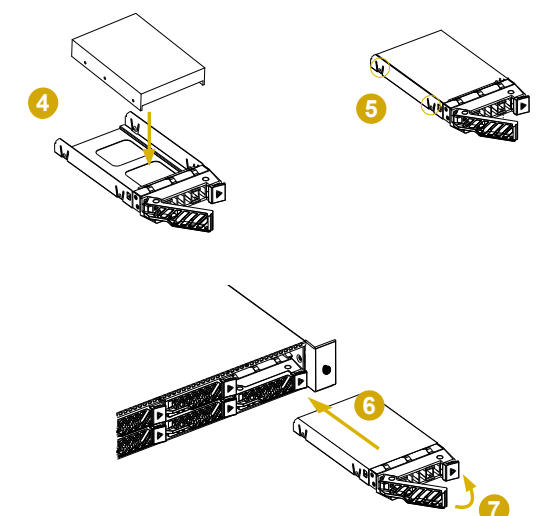
1. Press the locking lever latch.
2. Open the lever.



3. Pull the hard drive tray out.

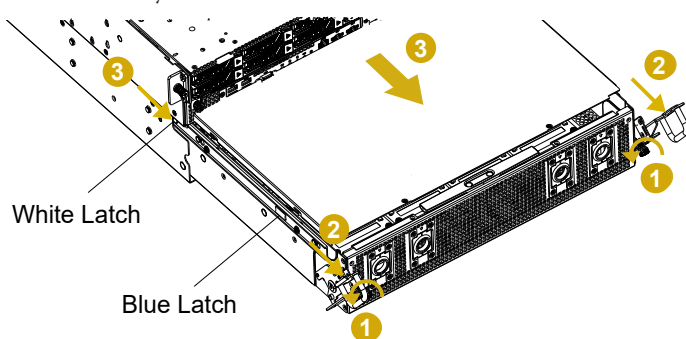


4. Place the hard drive into the tray.
5. Use the bumps on both sides of tray to secure the hard drive.
6. Slide the hard drive assembly into the hard drive bay.
7. Push in the locking lever to lock the assembly in place.

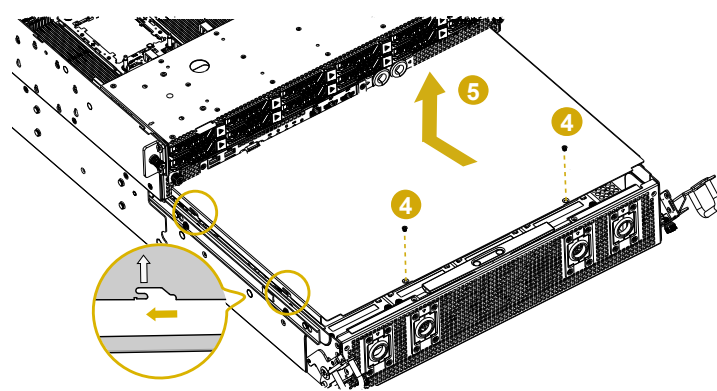


## 13 Remove GPU Tray Cover

1. Hand-release the thumbscrews.
2. Pull the GPU handles down gently.
3. Hold onto the GPU handles to pull the tray out until it is locked. Slide the WHITE latches toward the FRONT of the chassis to remove the whole tray out.



4. Remove the screws securing the GPU tray cover to the GPU tray.
5. Push the cover toward REAR to release it from the locked position. Lift up and remove the cover.



Note: The GPU handles are for moving the GPU tray only. To move the whole server, use the server handles in the accessory box.