



Thank you for your purchase of EchoStreams eDrawer4048S-UN Skylake Dual Processor Storage Server!

## 1. Check the Content of the box.

Please confirm that your package contains the following:

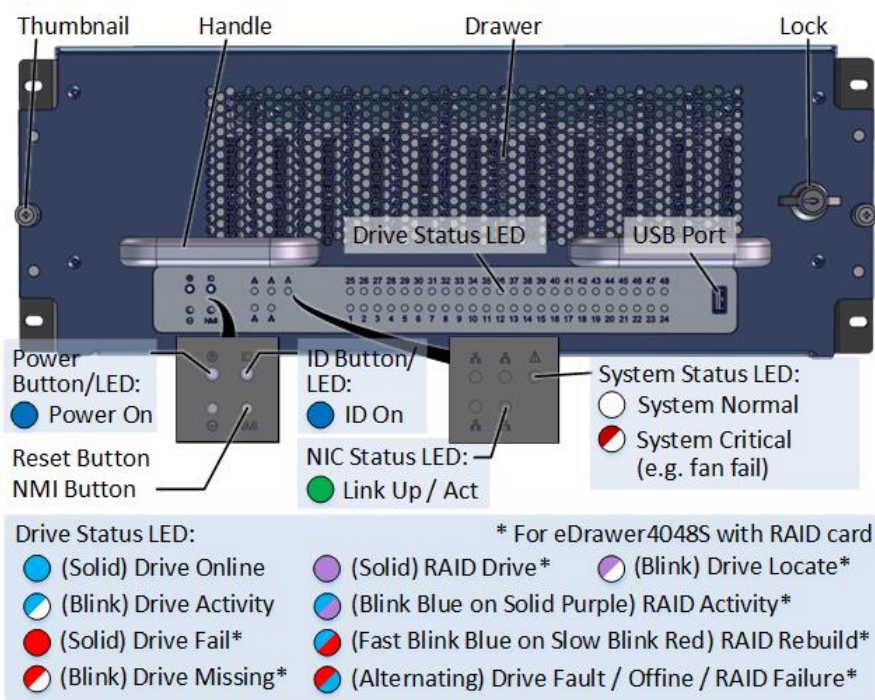
#	Description	Image / Description	Qty
1	eDrawer4048S-UN Enclosure		1
2	Motherboard	Gigabyte MZ32-AR0	1
3	CPU and memory	AMD EPYC and DDR4	2 sets
4	Heatsink		1
5	Internal SAS cables	4x SFF8643, 1x SFF8087	1 set
6	2.5" Drive Trays		4
7	Rail Blade		1 set
8	Power Cable*		2
9	Serial Cable*		1
10	Side Handles*		2

\* Inside the accessories box. Box may consist of screw sets for rail kit or drives. If any items are missing, please contact your reseller or sales rep.

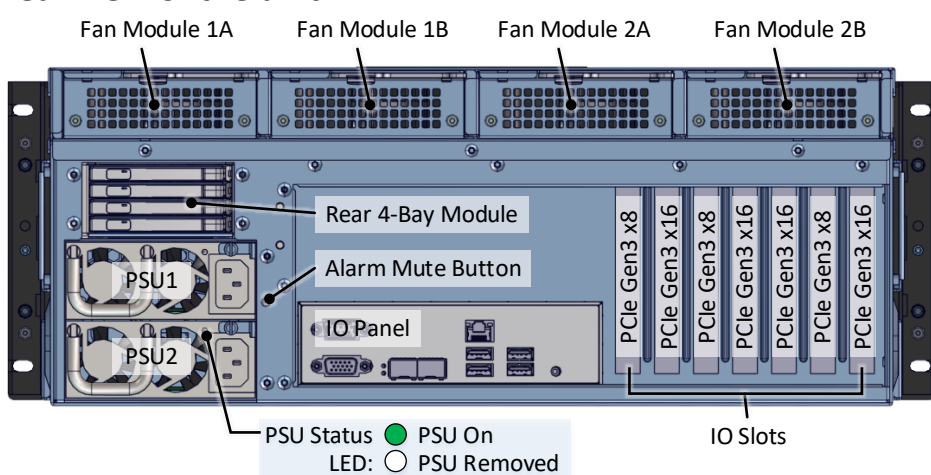
## 2. Get Familiar with the Unit.

eDrawer4048S-UN is a storage server supporting AMD EPYC processor and front drawer 48x 3.5" HDDs, rear 4x 2.5" drive, and 2x 2.5" OS disk in a 4U space. Gigabyte MZ32-AR0 are preinstalled. IO cards, CPU, and memory can be preinstalled upon request.

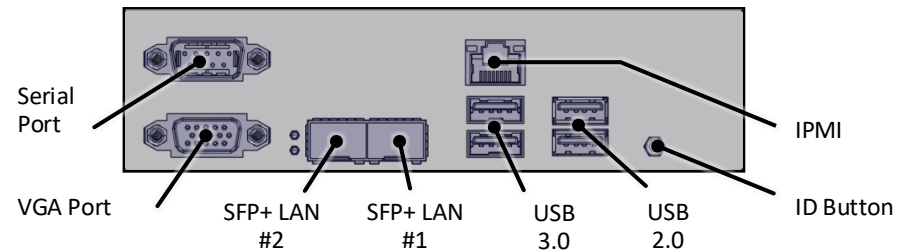
### Front view of the unit



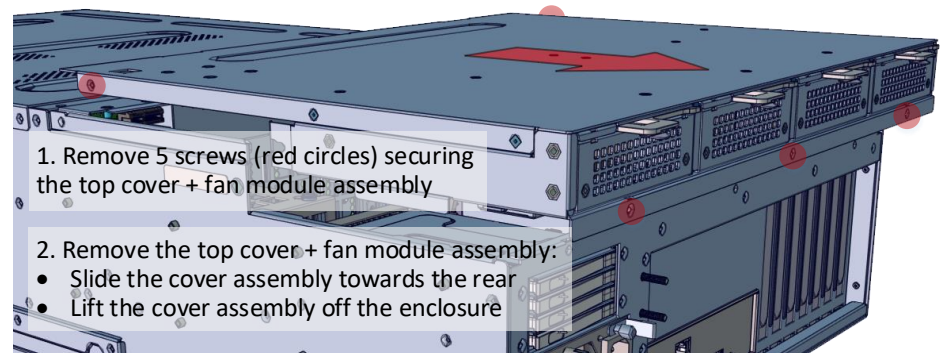
### Rear view of the unit



### Rear IO Panel

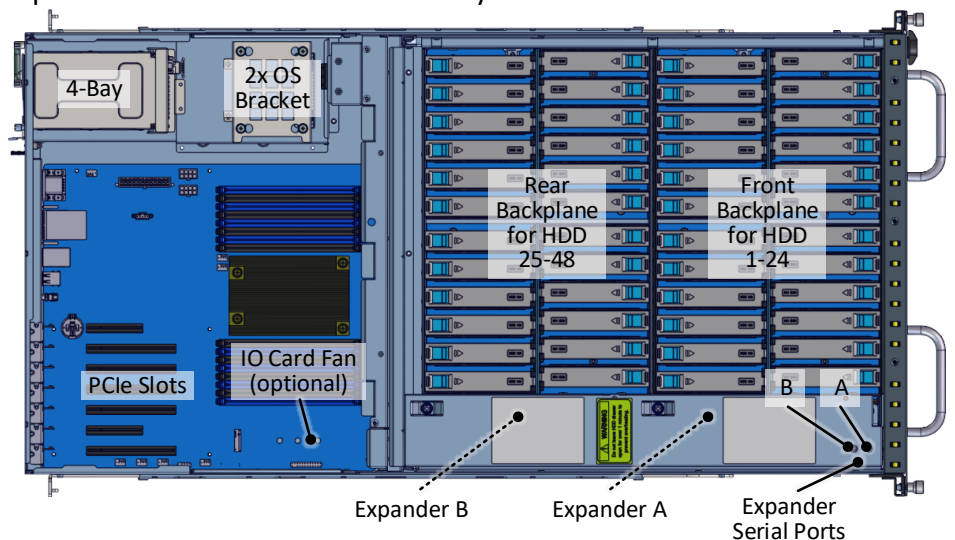


## 3. Remove the Top Cover of the unit as indicated.



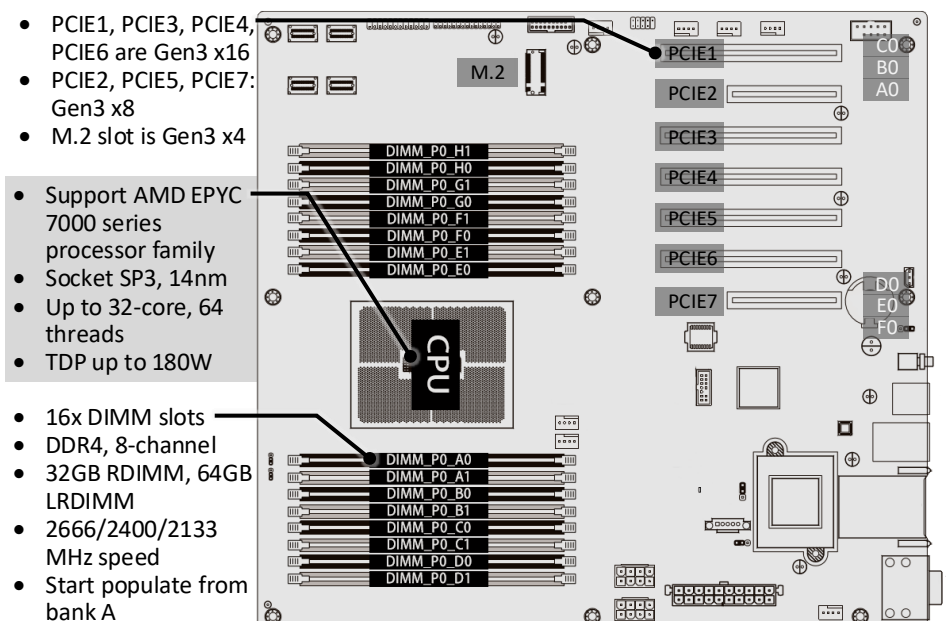
## 4. Inspect the Inside of the unit.

Internal components comprise of a Gigabyte motherboard, 1x SFF8087 for rear 2.5" 4-Bay, a bracket for 2x 2.5" OS disks, 4x SFF8463 SAS cables for 48-Bay and an optional IO card fan. Front backplane and Fan 1A/2A are routed to Expander A; rear backplane, rear 4-Bay, and Fan 1B/2B are routed to Expander B. All fans are controlled by the motherboard.



## 5. Install Motherboard Components (CPU, heatsink, memory).

Below are motherboard diagrams for Gigabyte MZ32-AR0. For detail, refer to the motherboard user's guide.



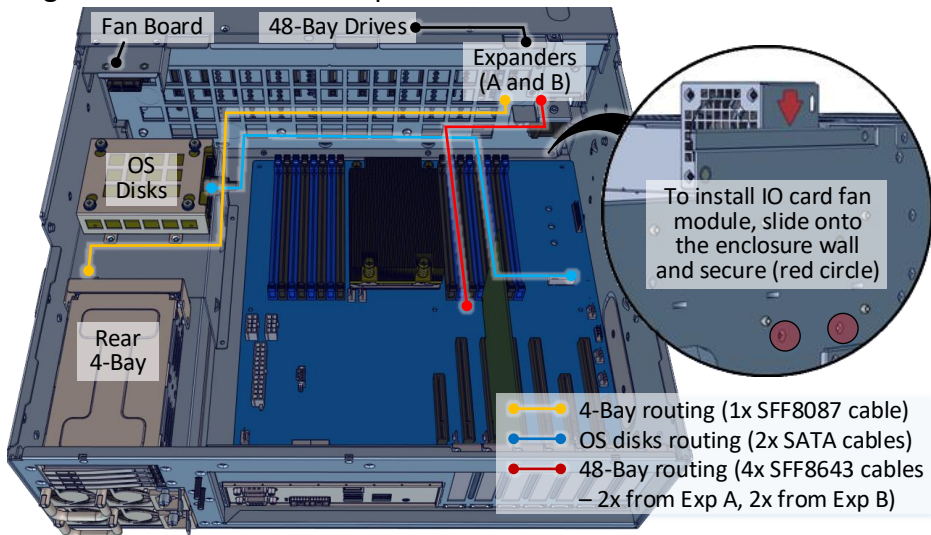
Installation and service of this product should be conducted by a trained personnel to avoid bodily injury from electric shock or heavy object



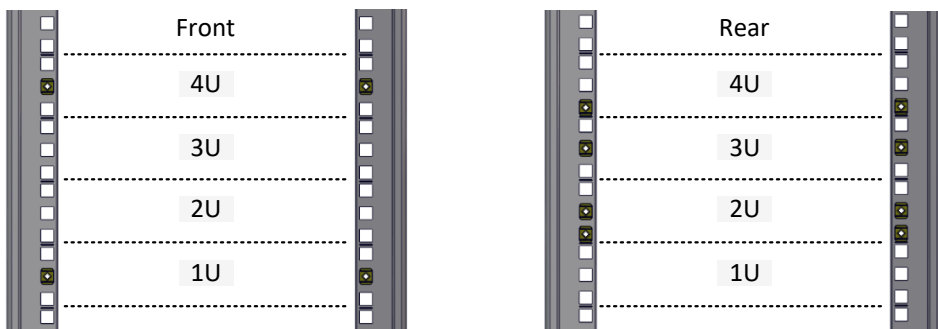
Observe ESD (Electrostatic Discharge) practices during integration to avoid possible damage to the board and / or other components



**6. Setup Internal Cable Connection.** Below is a recommended connection: OS disks to motherboard on-board SATA port, rear 4-Bay connected to Expander B then to IO card, 48-Bay disks to Expanders to HBA/RAID IO card. Install IO cards to PCIe slots using full height brackets. Close the top cover after finished.



**7. Prepare the Rack** by installing square nuts:



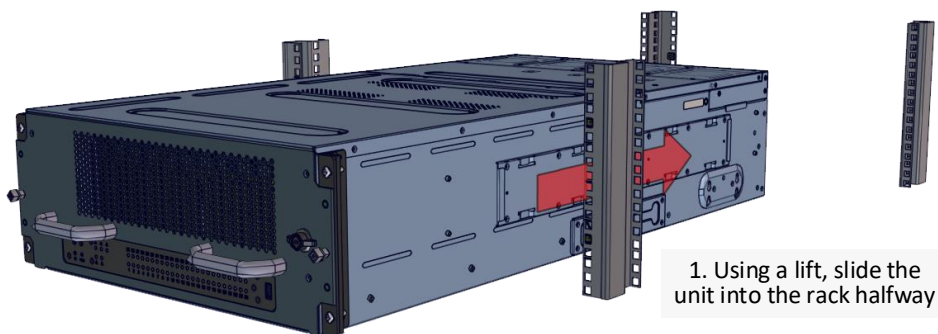
**8. Prepare the Rails** by removing it from the enclosure and adjust the rail sleeve, as necessary, subject to the depth of your rack:

- Remove screw (green circle) to remove the rail blade from the sleeve
- To adjust rail sleeve, remove the sleeve screws (yellow circles) and place to desired position (See table). **Position #2 is the default (sleeve highlighted red).**
- Install the handles to move unit to the lift

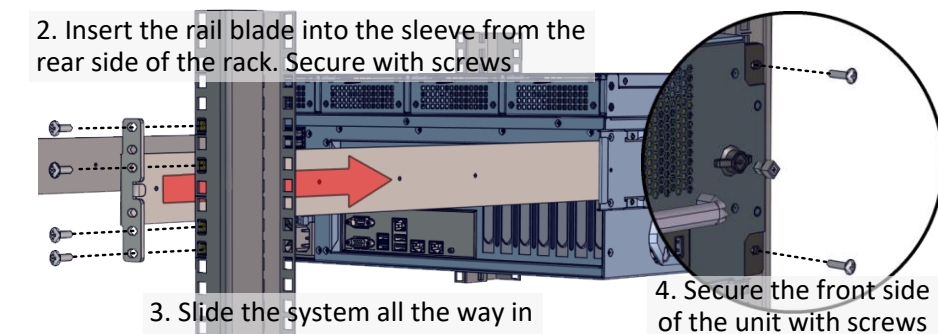
Pos.	Rack Depth
1	28" - 32"
2*	31" - 35"
3	34" - 38"

Pos. #1, Pos. #2\* (default), Pos. #3

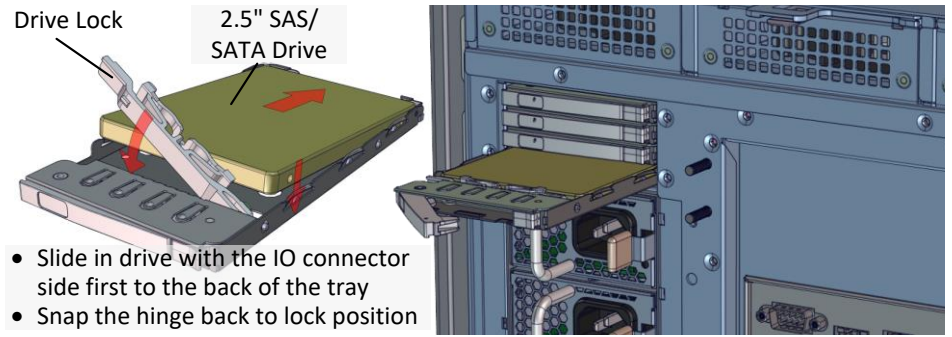
**9. Install the Unit to the Rack** as follows:



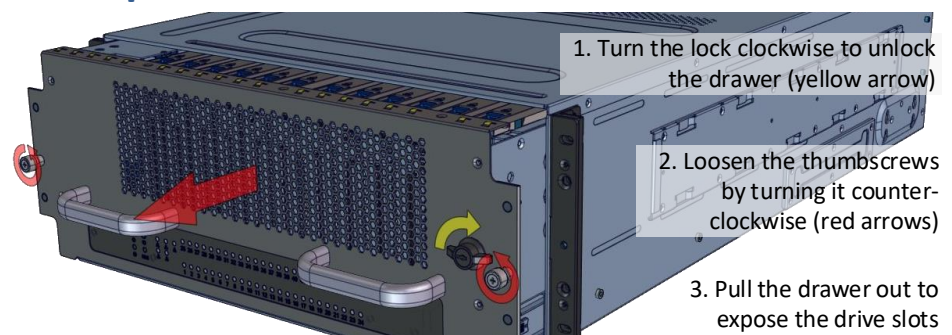
Use side handles to help carry the unit to a table or a rack lift. Side handles are not to be used for rack mounting. At least two people are recommended for mounting process.



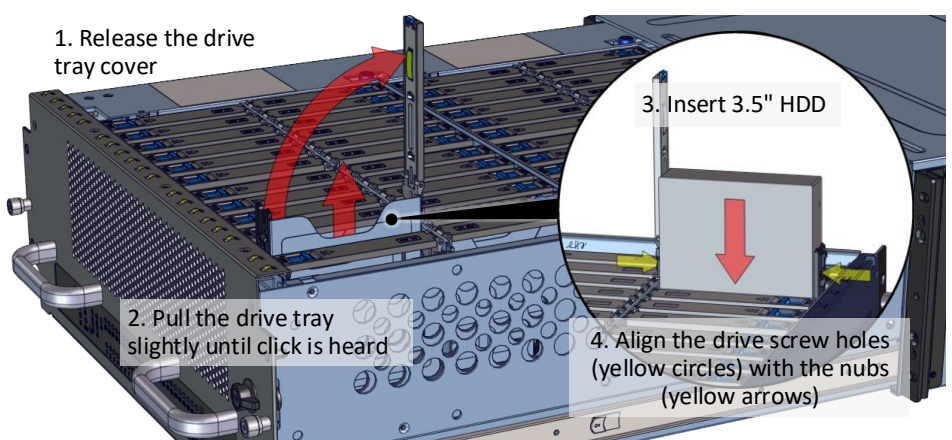
**10. Install 2.5" Disks to 4-Bay Drive Trays** as necessary. SSD and HDD may be sold separately. M3 screws are required if using HDD. Apply screws to bottom side of the drive tray.



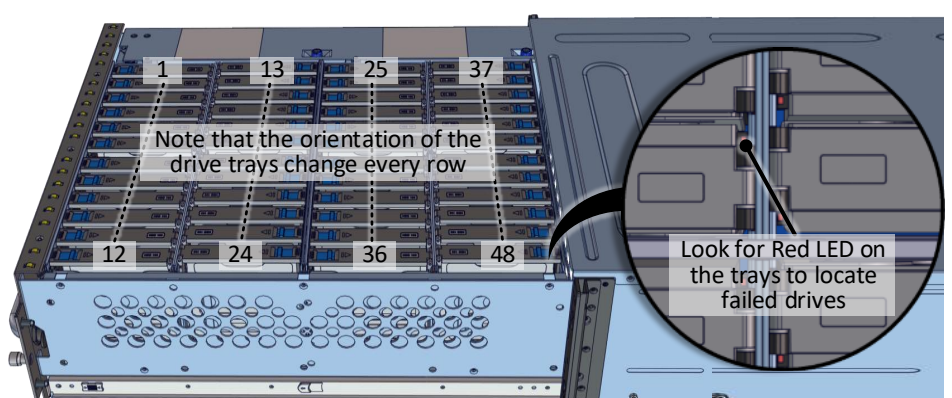
**11. Open Drive Drawer** to install disk drives:



**12. Install 3.5" Drives** to the enclosure as illustrated:



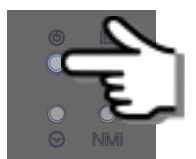
**13. Install 3.5" Drives** to the enclosure as illustrated:



**14. Plug in the Power Cords** to the AC receptacles on the back of the unit.

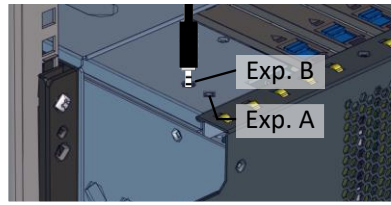


**15. Press the Power Button** on the front of the unit



## 16. Access the Serial Console (when necessary) by

connecting a serial audio cable to the one of the console ports. Pull out the drawer for serial port access. See picture for detail. Use a terminal console with baud set 115200, 8, N, 1, N.



Type "help -a" for a list of commands.