

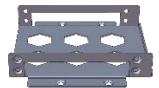
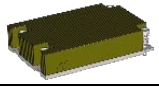






**Thank you for your purchase of 1U 20-Bay 7mm U.2 NVMe EPYC UP Storage Server!**

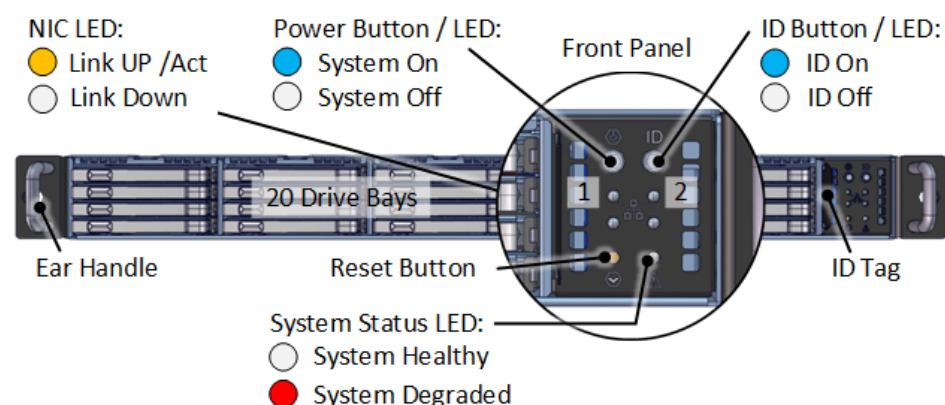
**1. Check the content** of the box. Please verify that your package contains the following:

#	Description	Image / Description	Qty
1	FlacheSAN1N Enclosure		1
2	2.5" 7mm Tool-less Drive Trays		20
3	Motherboard	Tyan S8026GM2NR	1
4	Internal cables	OcuLink x8 cables	5
5	OS disk bracket		1
6	CPU and memory	AMD EPYC and DDR4	1 set
7	Heat sink		1
8	Power Cable*		2
9	Slide Rail Kit (opt)		1
10	Front Bezel (opt)		
11	This Quick Guide		1
12	Packaging		1 set

\* Inside the accessories box. If any items are missing, please contact your authorized reseller or sales representative

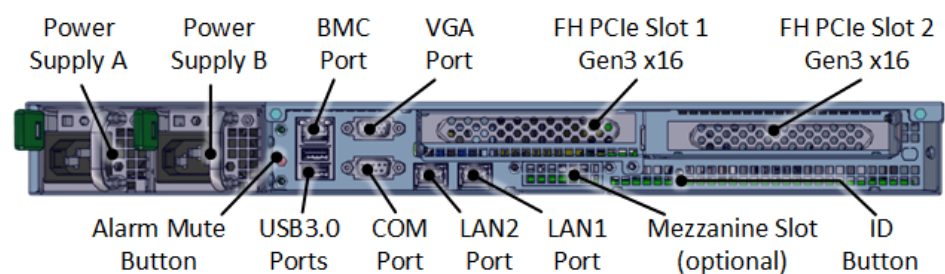
## 2. Get familiar with the unit.

### Front View

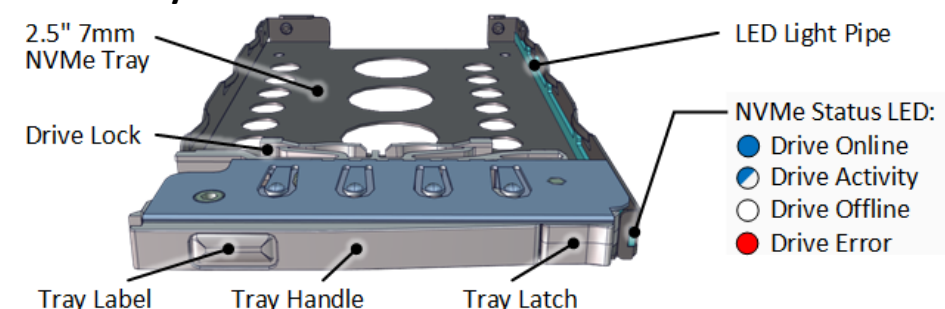


**Note:** All U.2 NVMe must be inserted to the unit before system power up. Rescan drives after every NVMe drive hot swap.

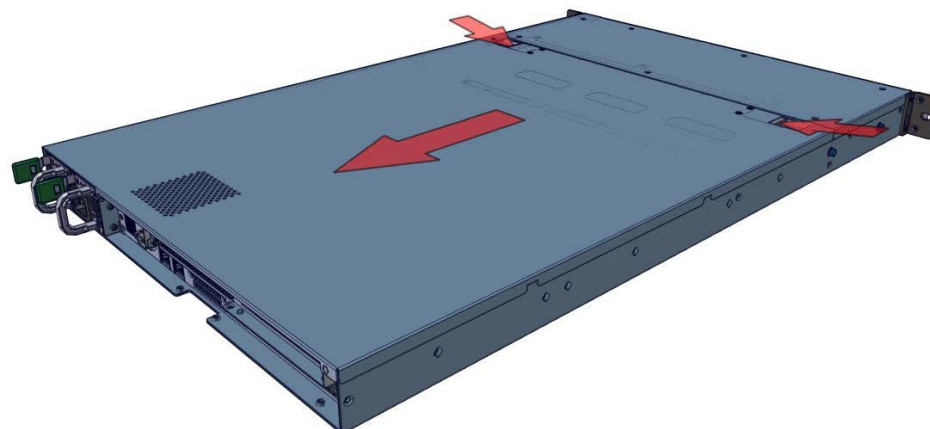
### Rear View



### NVMe Tray

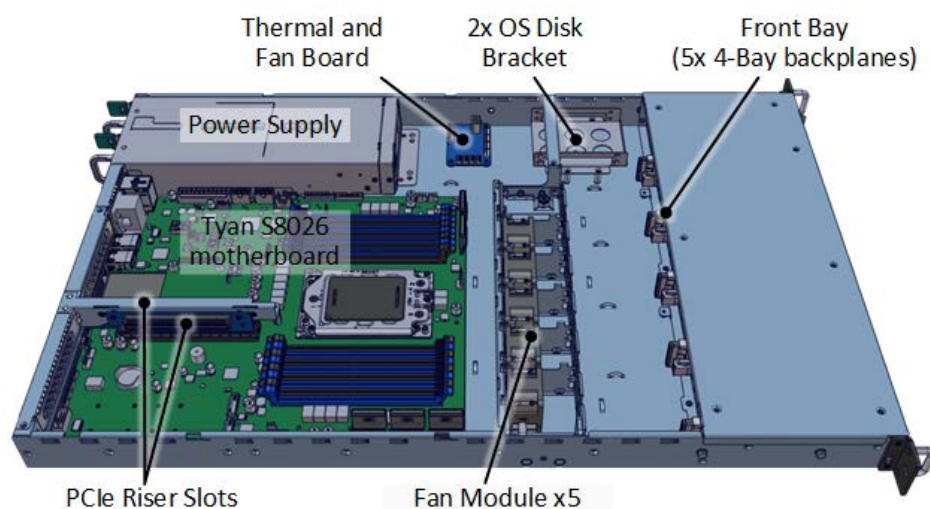


**3. Remove the top cover** by sliding the cover latches inwards and slide the cover towards the back of the unit.



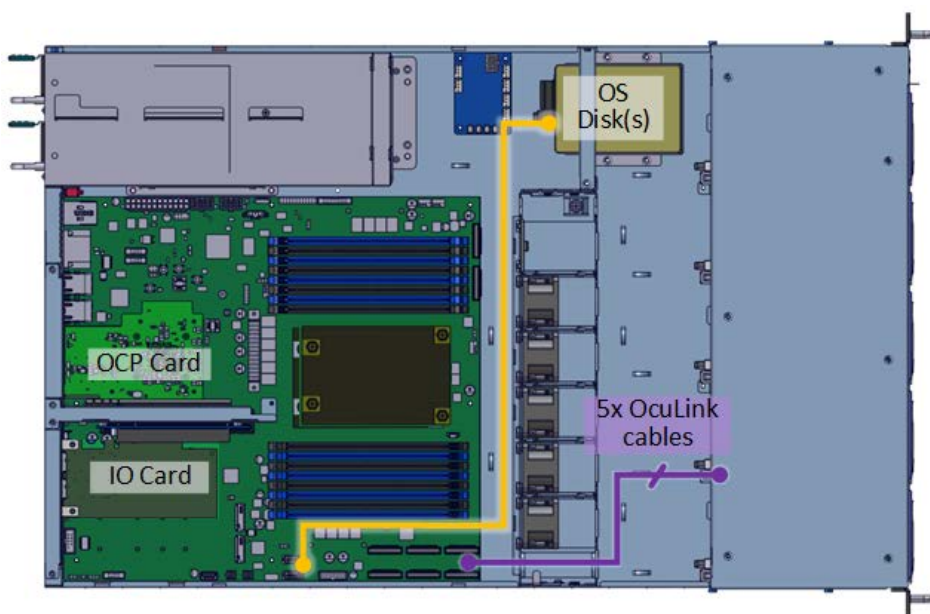
**4. Inspect the internal** of the chassis. By default, it consists of:

- Tyan S8026GM2NR EPYC Single Processor motherboard
- 5x backplanes supporting 20x tool-less drive trays for 2.5" 7mm NVMe U.2 modules
- 5x system fan modules
- 2x PCIe riser cards for 2x full height IO cards
- A drive bracket for 2x 2.5" OS disks



See illustration below for one example of the data path from disk devices to the host.

- OS disks are connected to the on-board SATA ports.
- Front 20x NVMe U.2 modules are connected to on-board OcuLink connectors via 5x Oculink x8 cables.



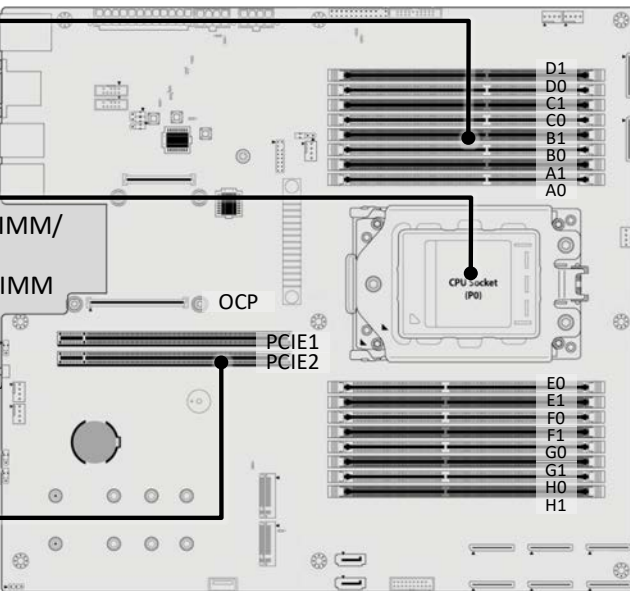
Installation and service of this product should be conducted by a trained personnel to avoid any bodily injury from electric shock or heavy object



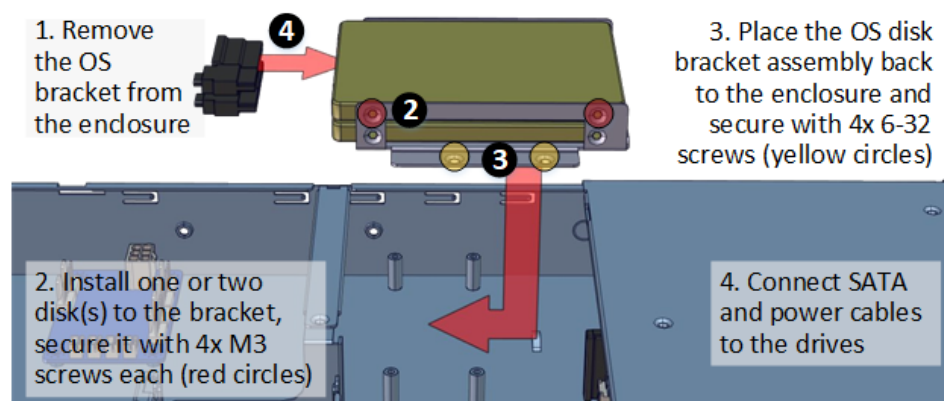
Observe ESD (Electrostatic Discharge) practices during integration to avoid possible damage to the board and / or other components



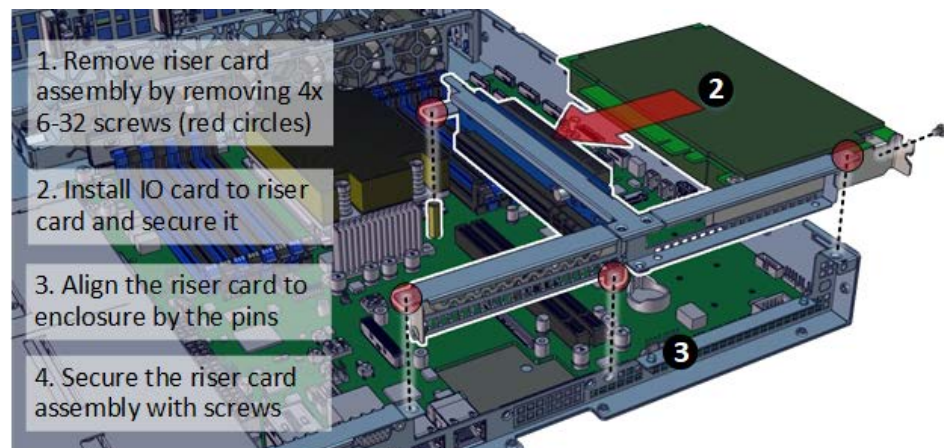
**5. Install CPU and memory** (may be sold separately) to their respective slots on the motherboard. Refer to the motherboard's manual for details.

- Support for AMD 14nm Naples x86 processor
  - One AMD Socket SP3
  - Max up to 180W ACP
  - 8+8 DIMM slots
  - DDR4 ECC RDIMM/LRDIMM/NVDIMM 2667
  - Up to 1TB RDIMM, LRDIMM
  - 8 Channels, 1.2V
  - Populate from farthest slot first: D1-H1, C1-G1, B1-F1, A1-E1, then A0-A1 to E0-E1 for 10 DIMMs and so on
  - PCIe1 is Gen3 x16
  - PCIe2 is Gen3 x24
  - OCP2.0 is Gen3 x8
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**6. Install OS disk(s)** into the bracket.

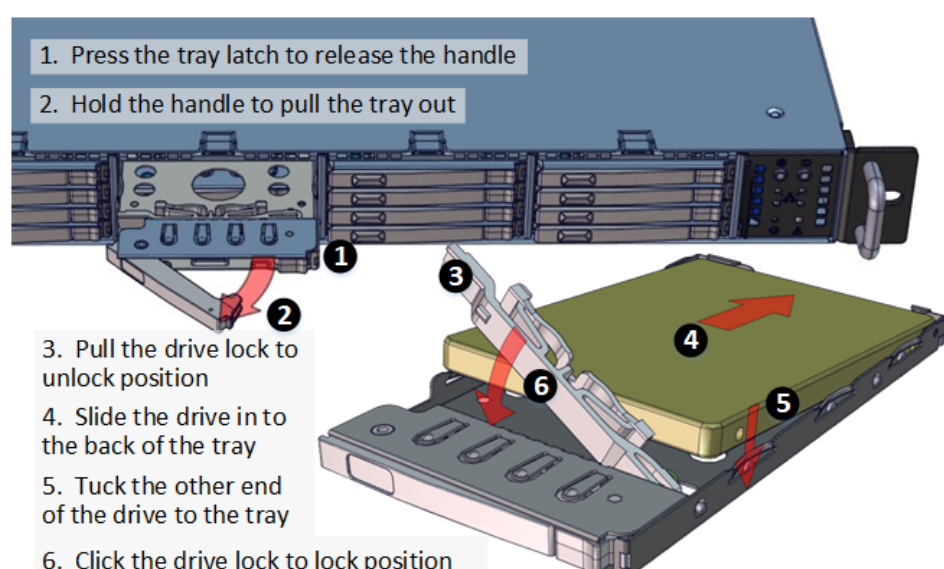
1. Remove the OS bracket from the enclosure
  2. Install one or two disk(s) to the bracket, secure it with 4x M3 screws each (red circles)
  3. Place the OS disk bracket assembly back to the enclosure and secure with 4x 6-32 screws (yellow circles)
  4. Connect SATA and power cables to the drives
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**7. Install IO cards** (may be sold separately) to PCIe riser cards.

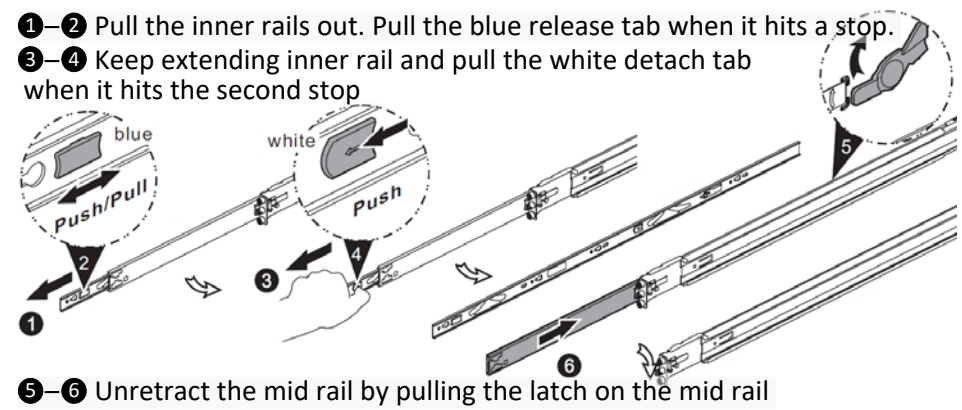
1. Remove riser card assembly by removing 4x 6-32 screws (red circles)
  2. Install IO card to riser card and secure it
  3. Align the riser card to enclosure by the pins
  4. Secure the riser card assembly with screws
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**8. Replace the top cover** once internal setup is done.

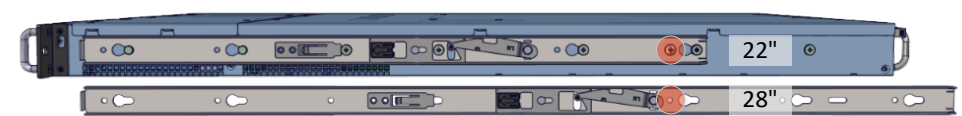
**9. Install NVMe drive** to the enclosure.

1. Press the tray latch to release the handle
  2. Hold the handle to pull the tray out
  3. Pull the drive lock to unlock position
  4. Slide the drive in to the back of the tray
  5. Tuck the other end of the drive to the tray
  6. Click the drive lock to lock position
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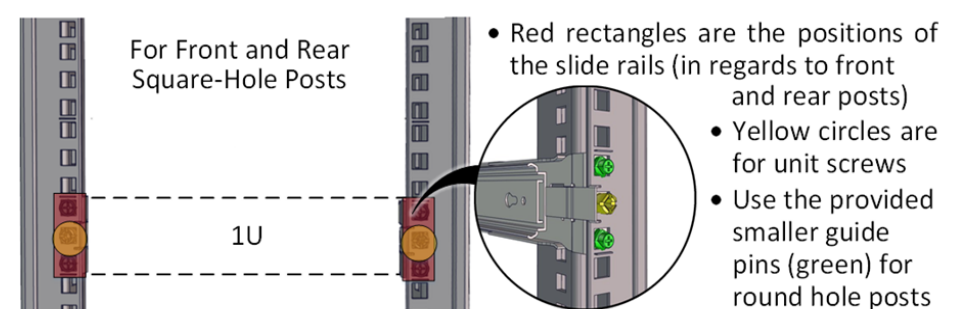
**10. Remove the Inner Rail** from the slide rail.

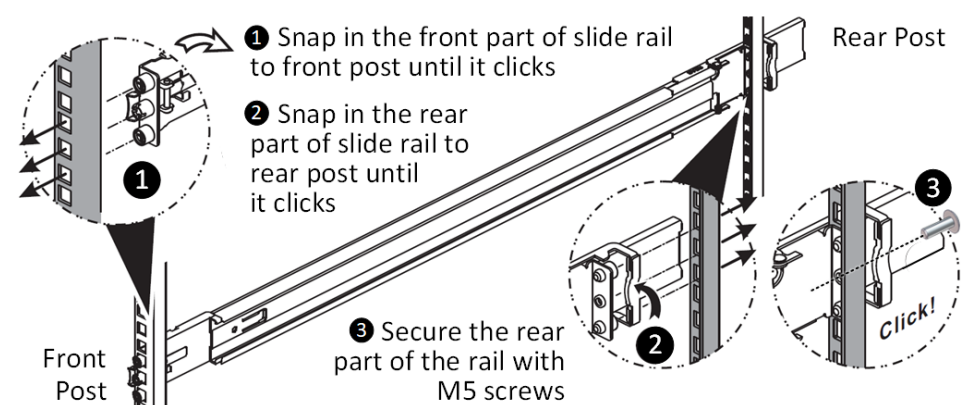
- 1-2 Pull the inner rails out. Pull the blue release tab when it hits a stop.
  - 3-4 Keep extending inner rail and pull the white detach tab when it hits the second stop
  - 5-6 Unretract the mid rail by pulling the latch on the mid rail
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**11. Prepare unit for rack installation.** Remove inner rails from the rail kit and install them to the unit. Two types of slide rail (22" and 28" long) are available. Secure with screw as indicated. Refer to Rail Kit Installation Guide for details.

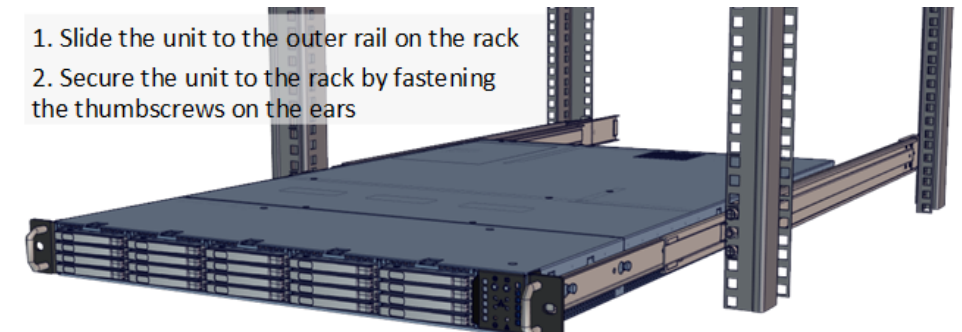


**12. Install the Outer Rails to the Rack** as follows:

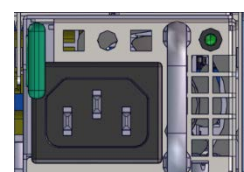
- Red rectangles are the positions of the slide rails (in regards to front and rear posts)
  - Yellow circles are for unit screws
  - Use the provided smaller guide pins (green) for round hole posts
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- 1 Snap in the front part of slide rail to front post until it clicks
  - 2 Snap in the rear part of slide rail to rear post until it clicks
  - 3 Secure the rear part of the rail with M5 screws
- 

**13. Mount unit to rack.**

1. Slide the unit to the outer rail on the rack
  2. Secure the unit to the rack by fastening the thumbscrews on the ears
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**14. Plug in the power cords** to the AC receptacles on the back of the unit and secure it with power cable harness.



**15. Press the power button** on the front of the unit after connecting a monitor and input devices, and get ready for software setup.

