Thank you for your purchase of FlacheSAN1N10U-UN, 1U 10-Bay NVMe EPYC UP Storage Server!

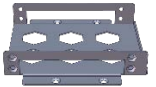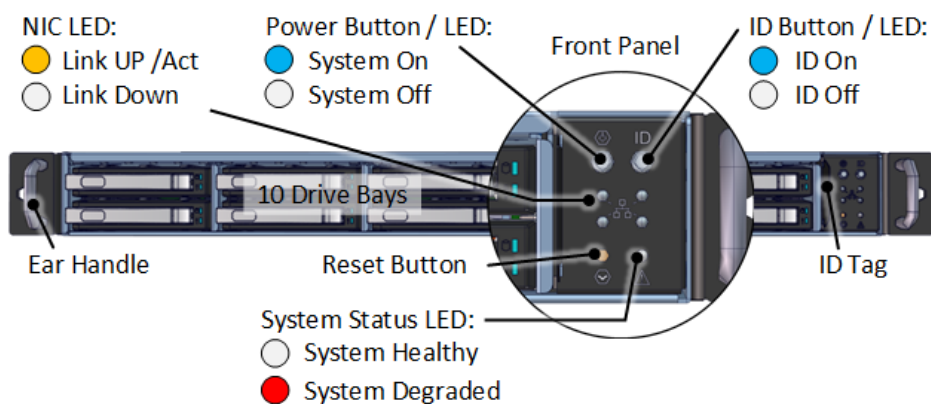### 1. Check the content of the box. Please verify that your package contains the following:

#	Description	Image / Description	Qty
1	FlacheSAN1N Enclosure		1
2	2.5" Tool-less Drive Trays		10
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
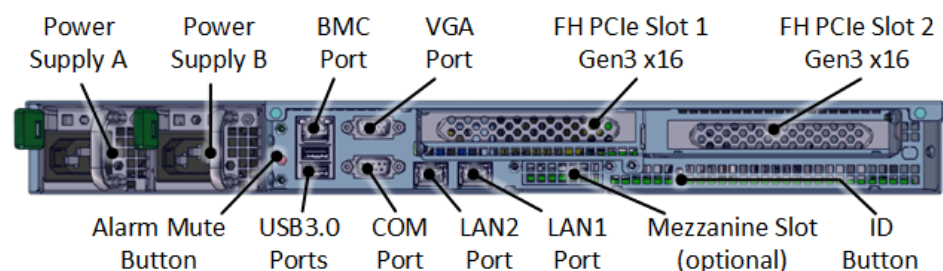
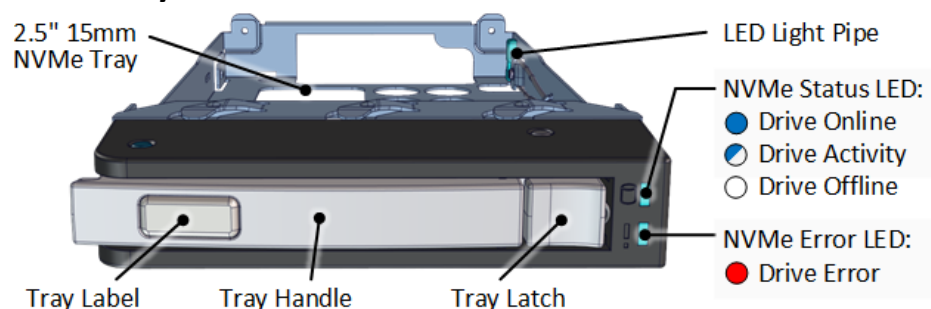### 2. Get familiar with the unit.

Front View

NIC LED:
- 🟠 Link UP /Act
- ○ Link Down

Power Button / LED:
- 🔵 System On
- ○ System Off

Front Panel

ID Button / LED:
- 🔵 ID On
- ○ ID Off

10 Drive Bays

Ear Handle   Reset Button   ID Tag

System Status LED:
- ○ System Healthy
- 🔴 System Degraded

⚠️ **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

Power Supply A   Power Supply B   BMC Port   VGA Port   FH PCIe Slot 1 Gen3 x16   FH PCIe Slot 2 Gen3 x16

Alarm Mute Button   USB3.0 Ports   COM Port   LAN2 Port   LAN1 Port   Mezzanine Slot (optional)   ID Button

NVMe Tray

2.5" 15mm NVMe Tray

LED Light Pipe

NVMe Status LED:
- 🔵 Drive Online
- 🔵 Drive Activity
- ○ Drive Offline

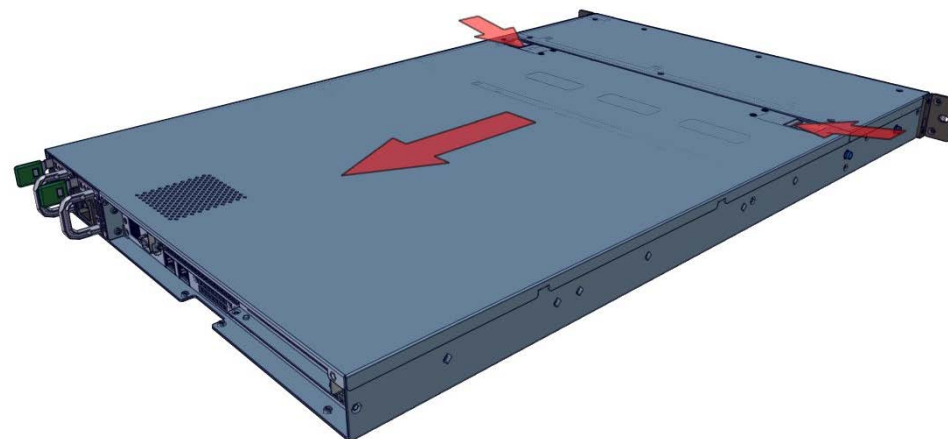NVMe Error LED:
- 🔴 Drive Error
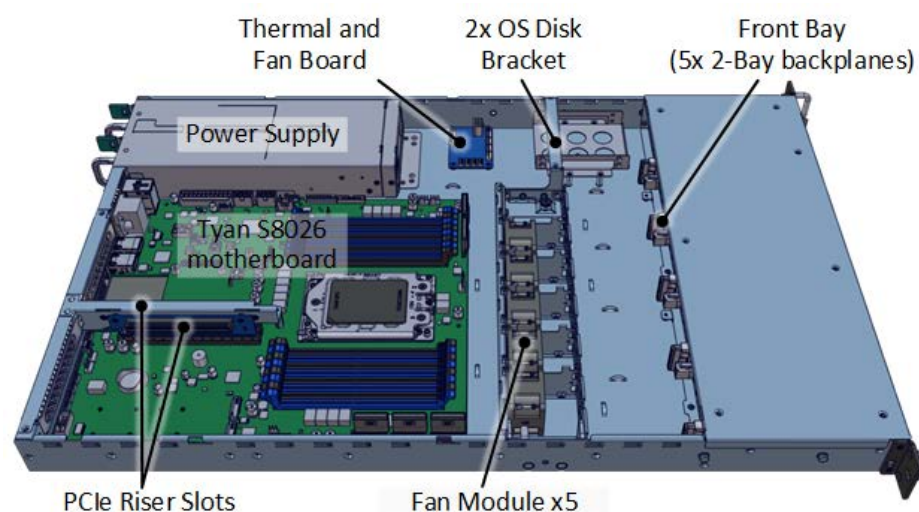
Tray Label   Tray Handle   Tray Latch

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 2-Bay backplanes supporting 10x tool-less drive trays for 2.5" 7mm and 15mm 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

Thermal and Fan Board   2x OS Disk Bracket   Front Bay (5x 2-Bay backplanes)

Power Supply

Tyan S8026 motherboard

PCIe Riser Slots   Fan Module x5

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 10x NVMe U.2 modules are connected to on-board OcuLink connectors via 5x OcuLink x8 cables.
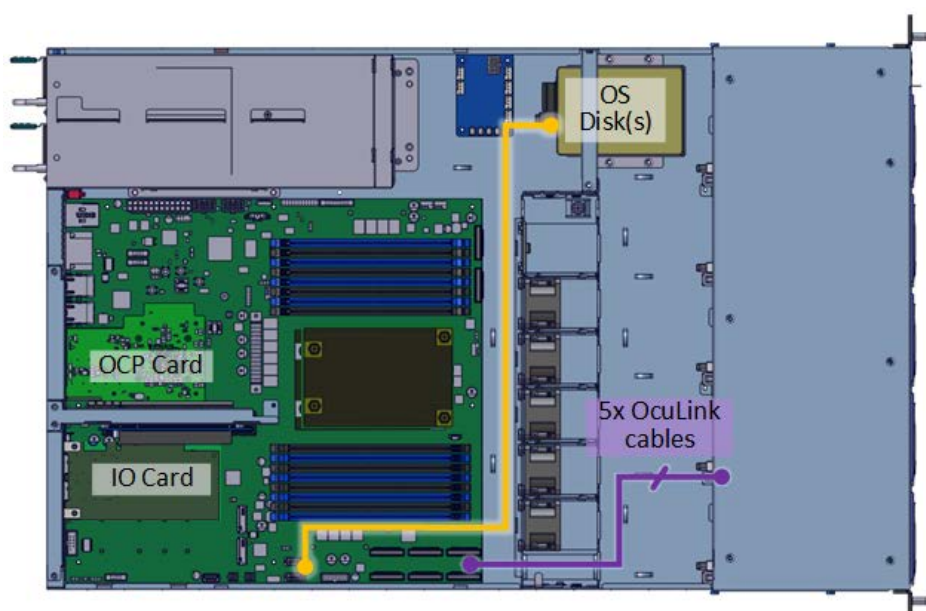
OS Disk(s)

OCP Card

5x OcuLink cables

IO Card

5. Install CPU and memory (may be sold separately)

to their respective slots on the motherboard. Refer to the motherboard's TPS 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
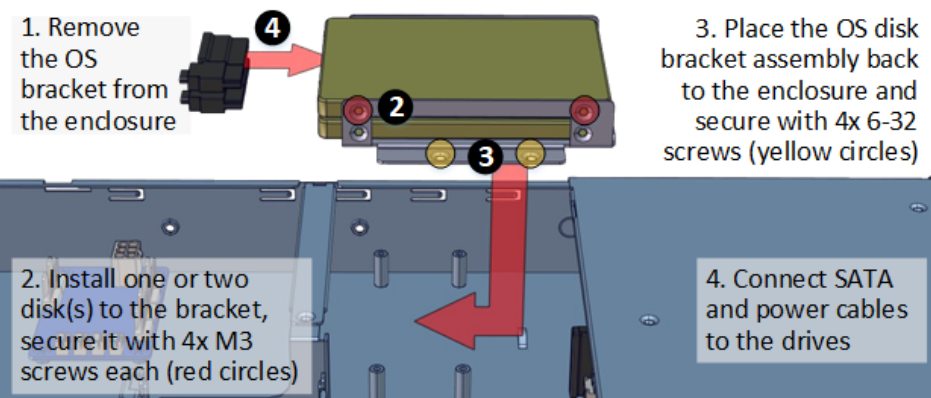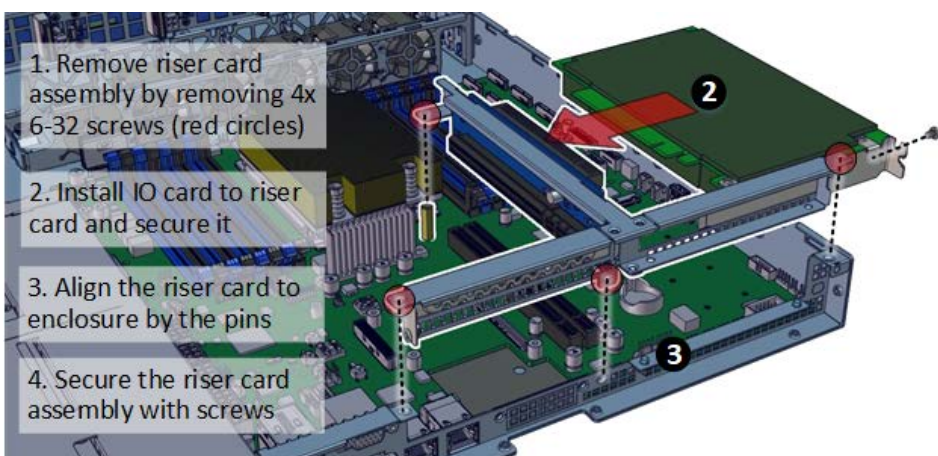- Populate from farthest slot first: D1-H1, C1-G1, B1-F1, A1-E1, then A0-A1 to E0-E1 for 10 DIMMs and so on

- PCIE1 is Gen3 x16
- PCIE2 is Gen3 x24
- OCP2.0 is Gen3 x8
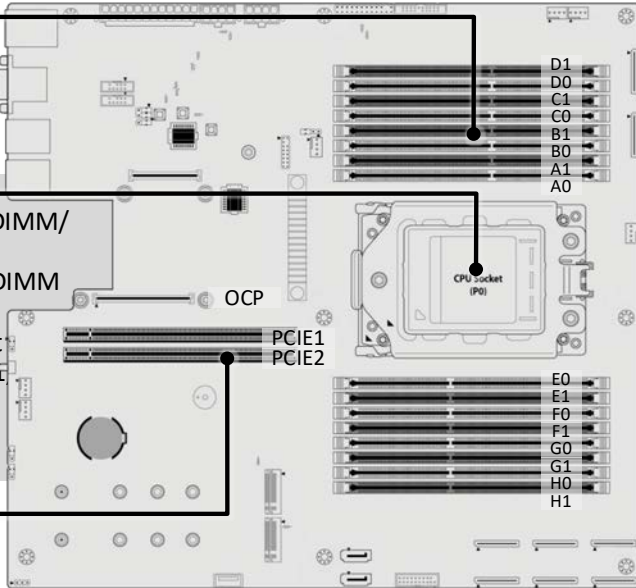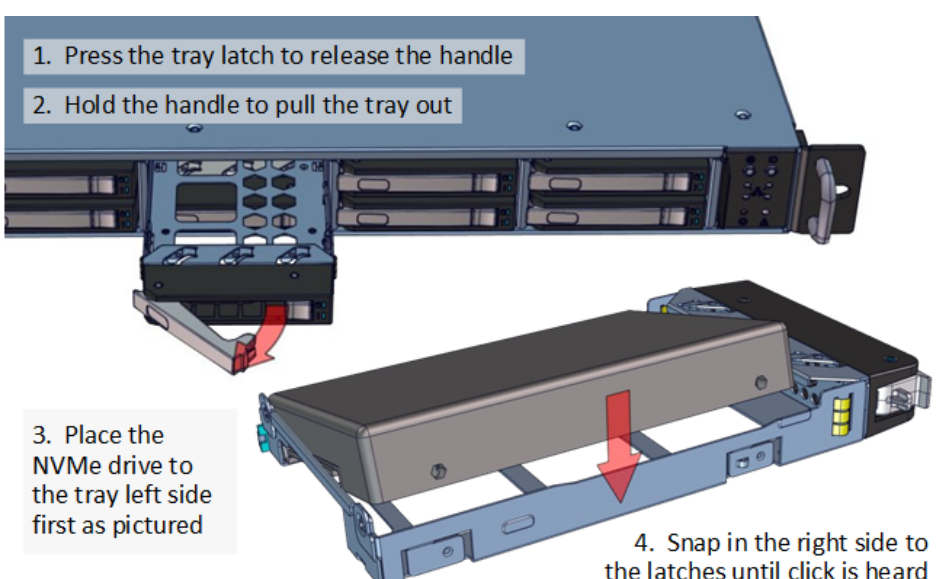
6. Install OS disk(s) into the bracket.

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

7. Install IO cards 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

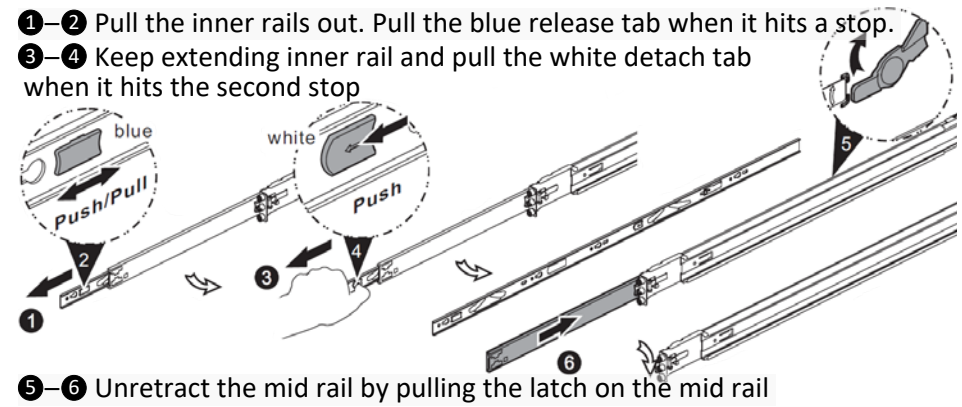4. Secure the riser card assembly with screws

8. Replace the top cover once we are finished

setting up the internal of the system.

9. Install NVMe drive to the enclosure.

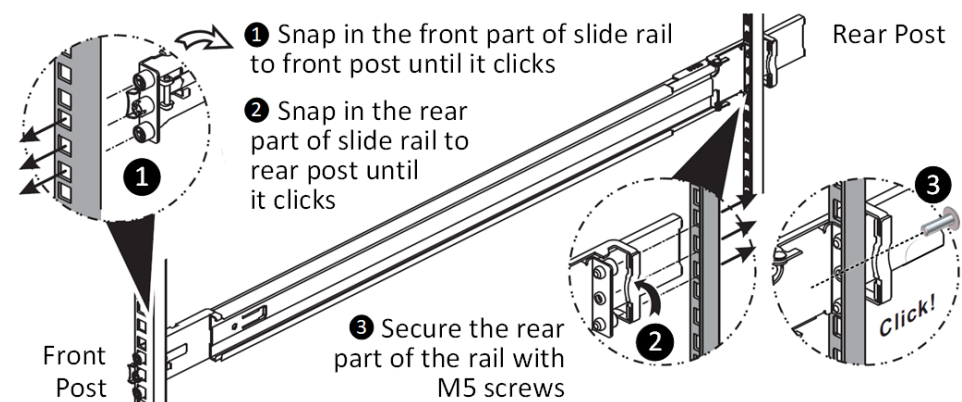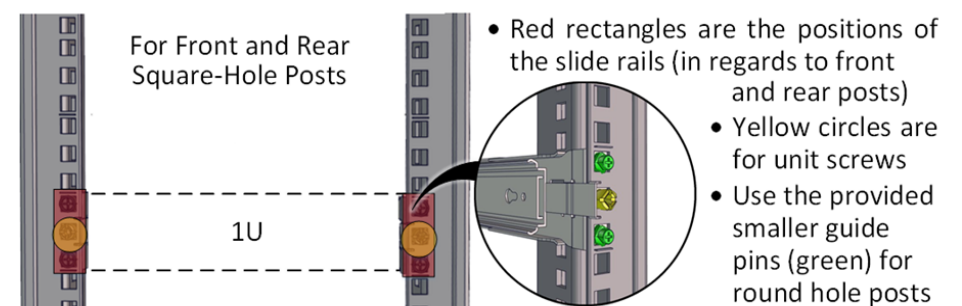1. Press the tray latch to release the handle
2. Hold the handle to pull the tray out

3. Place the NVMe drive to the tray left side first as pictured

4. Snap in the right side to the latches until click is heard

10. Remove the Inner Rail from the slide rail.

❶–❷ Pull the inner rails out. Pull the blue release tab when it hits a stop.
❸–❹ Keep extending inner rail and pull the white detach tab when it hits the second stop

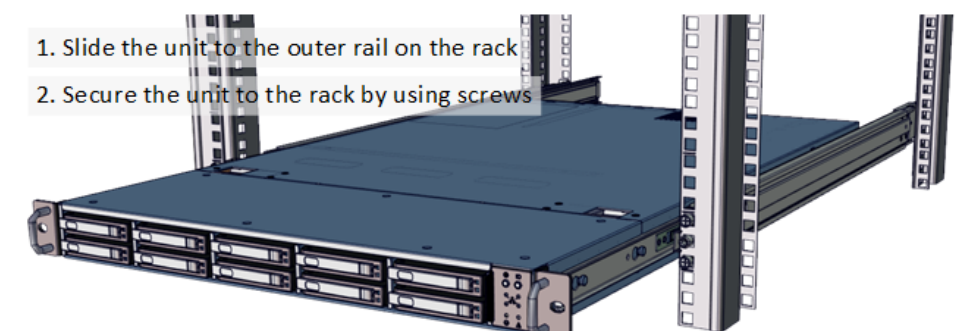❺–❻ Unretract the mid rail by pulling the latch on the mid rail

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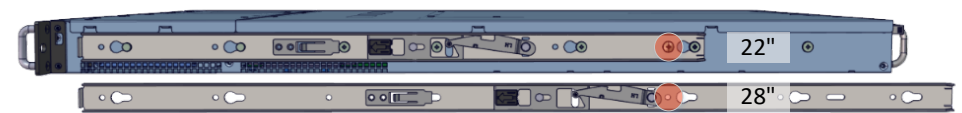
12. Install the Outer Rails to the Rack as follows:

For Front and Rear Square-Hole Posts

1U

- 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

❶ Snap in the front part of slide rail to front post until it clicks

❷ Snap in the rear part of slide rail to rear post until it clicks

Front Post

Rear Post

❸ 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 using screws

14. Plug in the power cords to the

AC receptacles on the back of the unit and secure it with power cable harness.
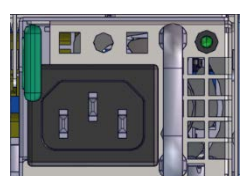
15. Press the power button on the

front of the unit after connecting a monitor and input devices, and get ready for software setup.