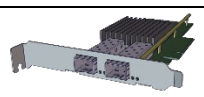
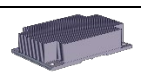
DSS316S-UN Quick Guide

Version 1.20 – 2018.01.29

Congratulation on your purchase of EchoStreams DSS316S-UN Storage Server System!

1. Check the Content of the box. Please confirm that your package contains the following:

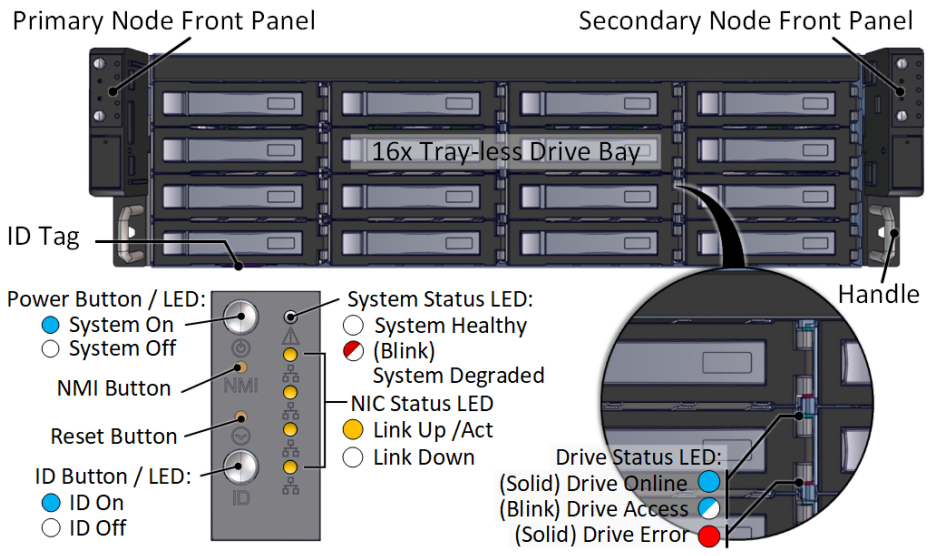
#	Description	Image / Description	Qty
1	DSS316S-UN Enclosure		1
2	Motherboard	Tyan UP motherboard	2
3	CPU and memory	AMD EPYC and DDR4	Opt.
4	IO Cards		Opt.
5	Heatsink		2
6	Slide Rail Kit + Screws		1 set
7	Power Cable*		2
8	RS-232 to Audio Serial Cable*		1

* 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.

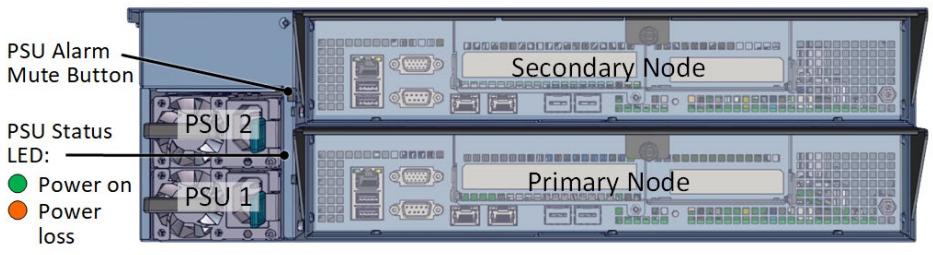
2. Get Familiar with the Unit.

DSS316S-UN is a redundant server supporting single AMD EPYC processor with a front tray-less 16x 3.5” HDD storage in a 3U space. Two Tyan S8026 motherboards, and internal cabling are preinstalled. Other motherboard model, IO cards, CPU, and memory can be preinstalled upon request.

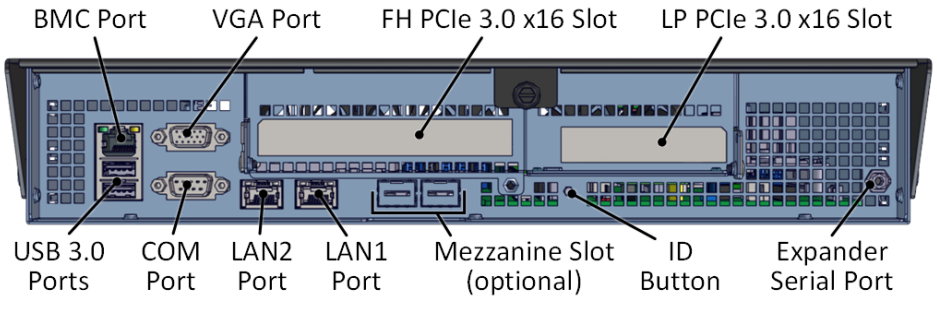
Front View of the Unit



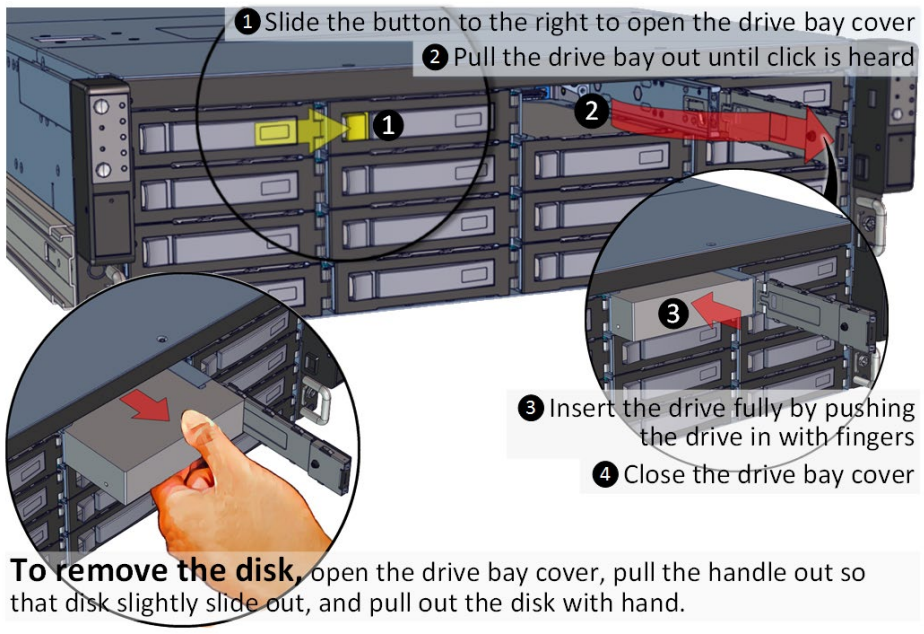
Rear View of the Unit



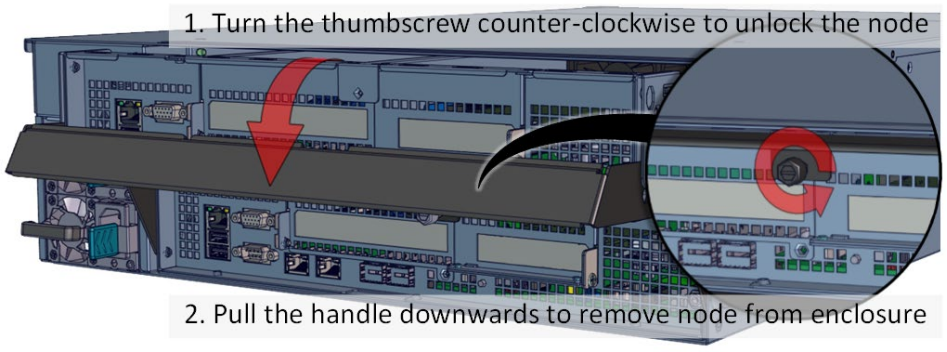
Controller Node



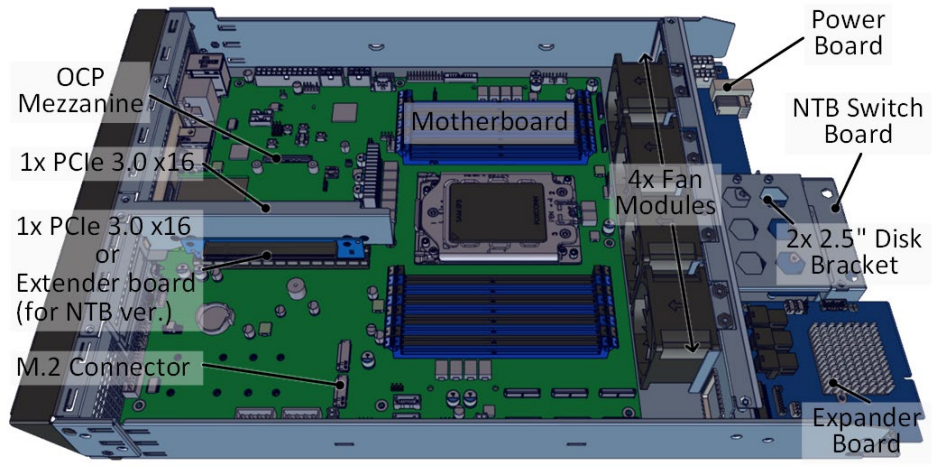
3. Install 3.5” Drives to the unit as illustrated. It is suggested to install HDDs after the unit is mounted to the rack.



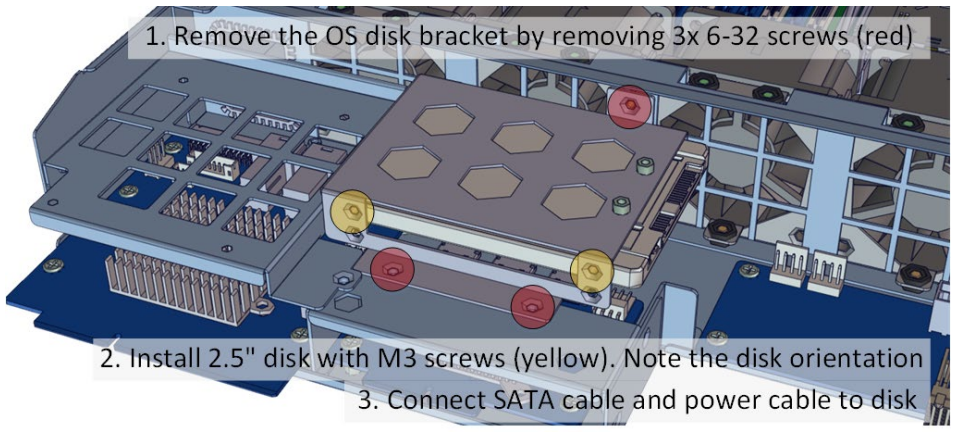
4. Remove the Controller Node to install any components required (IO cards, mezzanine, CPU, memory).



5. Inspect the Controller Node. The components comprise of a Tyan motherboard, an expander board, an NTB switch board, power board, 4x internal fan modules (all connected to the motherboard).



6. Install OS disk(s) if required as follows:



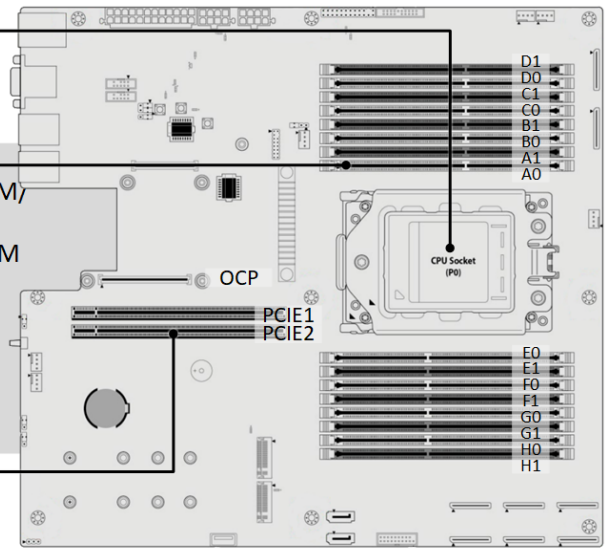
Installation and service of this product should be conducted by a trained personnel to avoid bodily injury from electric shock or heavy object

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

DSS316S-UN Enclosure Quick Guide

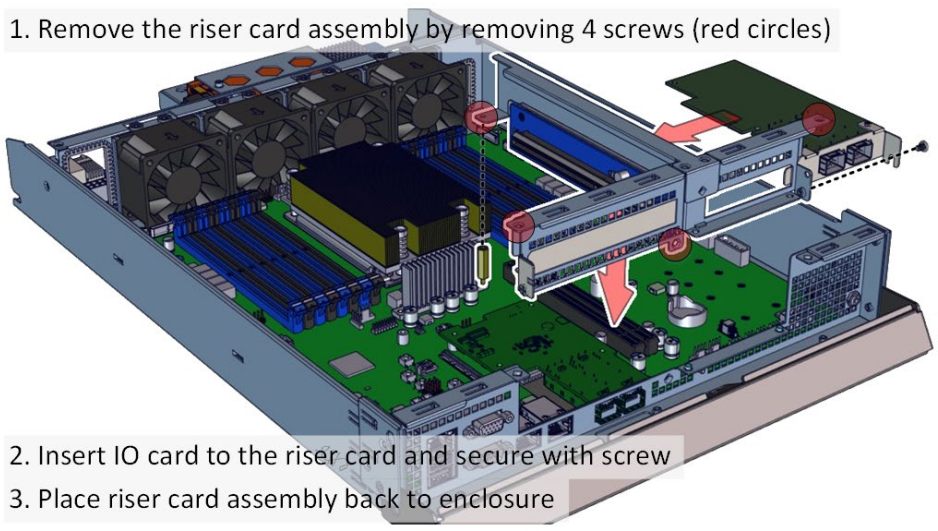
7. Install Motherboard Components (CPU, heatsink, memory) using the guidelines below. For further details, refer to the motherboard's manual.

- 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



8. Install IO cards to the motherboard tray as follow:

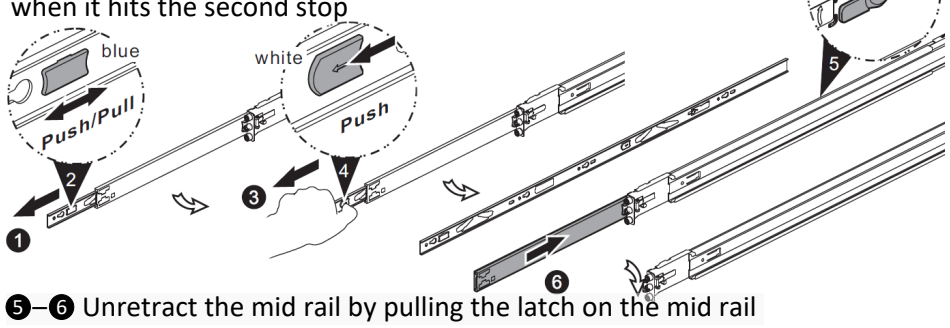
1. Remove the riser card assembly by removing 4 screws (red circles)



2. Insert IO card to the riser card and secure with screw
3. Place riser card assembly back to enclosure

9. Remove the Inner Rail from the slide rail.

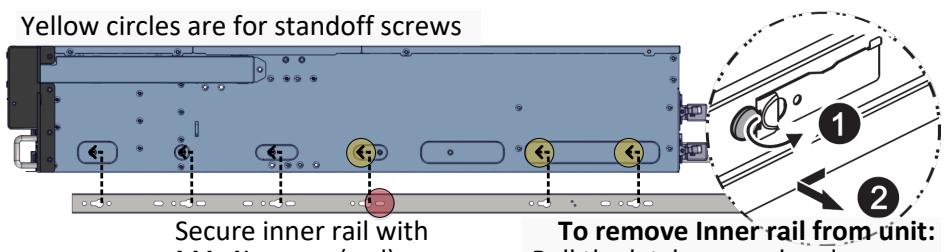
❶–❷ Pull the inner rails out. Pull the blue release tab when it hits a stop.
❸–❹ Keep extending inner rail and pull the white detach tab when it hits the second stop



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

10. Install Inner Rails to the enclosure.

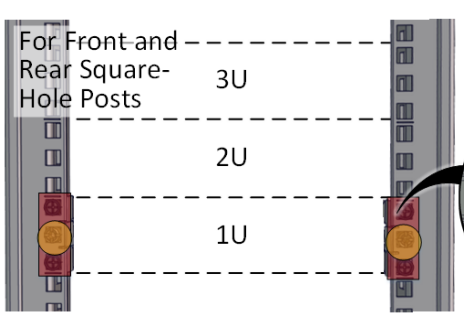
Yellow circles are for standoff screws



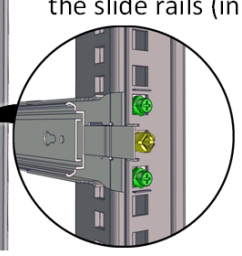
Secure inner rail with M4x4L screw (red)

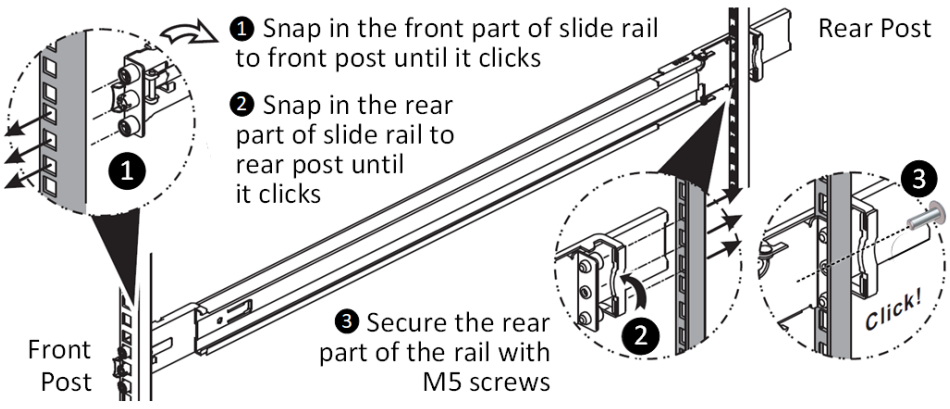
To remove Inner rail from unit: Pull the latch upward and remove the keyhole from standoff

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

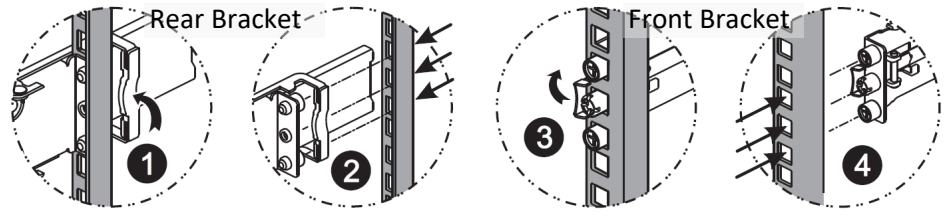


- Red rectangles are the positions of the slide rails (in regards to front and rear posts)
- Yellow circles are for unit screws
- Use the provided smaller guide pins (green) for round hole posts

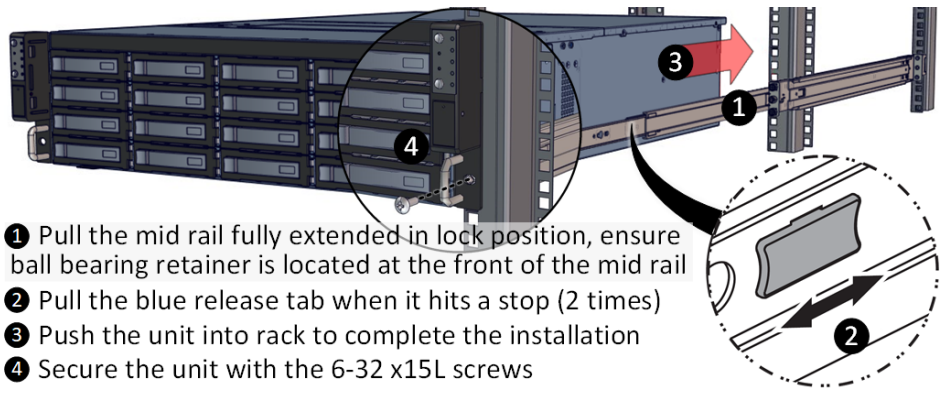




To remove slide rails, use the latches to undo the assembly as follows:



12. Install the Unit to the Rack as follows:



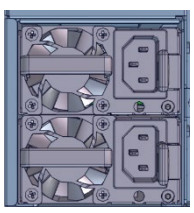
❶ Pull the mid rail fully extended in lock position, ensure ball bearing retainer is located at the front of the mid rail
❷ Pull the blue release tab when it hits a stop (2 times)
❸ Push the unit into rack to complete the installation
❹ Secure the unit with the 6-32 x15L screws

For a complete instruction on how to install unit to the rack, please follow the Slide Rail Installation Guide.

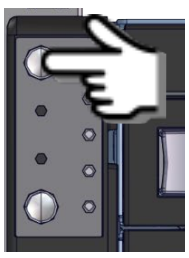
At least two people are recommended for mounting process. Insert HDDs after unit is mounted.

13. Drive Mapping of DSS316S-UN is as follows:

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

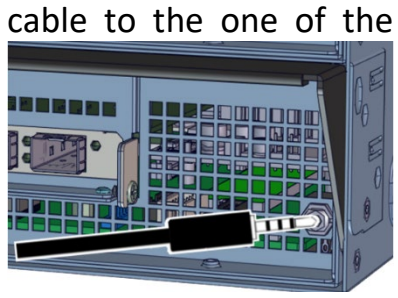


15. Press the Power Button on the front of the unit and for the system to boot up. Left panel is for primary node, right panel is for secondary node.



16. Access the Serial Console (when necessary) by connecting RS-232 to Audio serial cable to the one of the console ports. Use a terminal console with baud settings 115200, 8, N, 1, N.

Refer to Enclosure Management User's Manual for further detail.



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