ONYX Series Quick Installation Guide

ONYX Series Package Content

ONYX Series System Includes:

ONYX Series 1U Appliance



4U/102-bay Expansion Enclosure





Information for Installation Checklist

- System name:
- Admin password:
 - Default username and password is admin/1234
- NTP server IP address:
- Management IP address:
- DNS server IP address:

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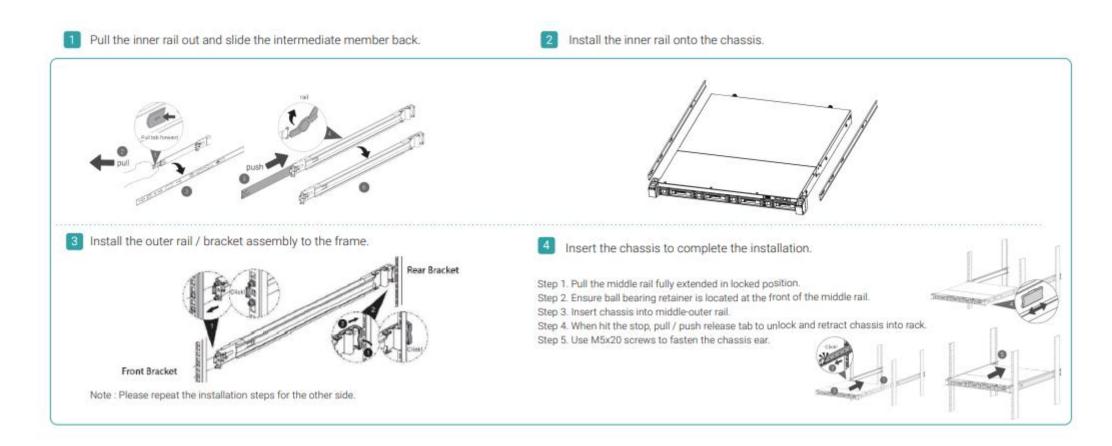
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Installing ONYX Series 1U Appliance Rail Kit





Unpacking the Expansion Enclosure Shipping Container

- 1. Visually inspect the packaging exterior for any signs of damage before opening.
 - If the container has sustained any damage, obtain an RMA.
 - If the container is not damaged, continue to the next step.

Figure 1 shows the contents of the shipping container when it is first opened.



Figure 1 Open shipping container contents

- Open the top of the box and remove the smaller box that contains the Accessory Kit. Inspect the Accessory Kit box for shipping damage.
- Remove the foam tray from the carton and inspect the enclosure for shipping damage. Figure 3.2 on page 31 shows the enclosure ready to be removed from the packaging.



HEAVY OBJECT: This system weighs approximately 116.1 kilograms (256.0 pounds) when all 102 drives, two PSUs, and two IOMs are preinstalled at the factory. (This weight does not include the container weight.) A fully loaded system weighs 124.7 kilograms (275.0 pounds) with the rails and CMA installed. Prevent personal injury and equipment damage. Obtain assistance during rack installation and when sliding the system in or out of the rack.



Figure 1.2 Enclosure ready for removal

Remove the protective foam sheet and lift the enclosure from the packaging using the lift straps shown in Figure 1.3. Use of a forklift or lift table is recommended. Always obtain assistance lifting the enclosure from the container.



WARNING: The handles mounted on the front of the enclosure are designed only for the purpose of extending the enclosure from the rack into the serviceable position. They will not support the entire weight of the enclosure. Do not attempt to lift the enclosure by the handles, They will break and damage to the enclosure and/or personal injury may occur.

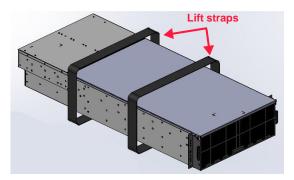


Figure 1.3 Removing the enclosure

ready to have the components reinstalled.

5. If installed, remove the enclosure's components to minimize enclosure weight during rack installation. Place all components on an anti-static surface until the enclosure is installed in the rack and

To remove a drive carrier assembly from the enclosure, follow these steps. (When removing a drive carrier, it is not necessary to remove any drive carrier containing a drive blank, or to remove a drive from the carrier.)

Press the release catch (see Figure 3.6 on page 35) on the drive carrier in the direction of the imprinted arrows—pointing to the rear of the enclosure—to release the handle into the

open position.





Carefully lift the drive carrier

assembly out of the slot as demonstrated



Installing ONYX Series Expansion Enclosure Rail Kit

Each rail kit has two components: one left rail and one right rail. When properly installed, the rail kit's chassis member (bolted to the sides of the enclosure) slides inside the rail kit's cabinet member (bolted to the rack).

The rail kit includes:

- One left adjustable rack mounting rail, engraved "L".
- One right adjustable rack mounting rail, engraved "R".
- Two mounting plates
- 22 Phillips® M5 X 10 flat head screws
- 12 ø5.1 washers
- Four M5 cage nuts
- Four M5 X 13 screws

Installing the Cabinet Members into the Rack

Install the cabinet members into the standard 19-inch (48.3-centimeter) rack as follows.

1. Adjust the length of the left cabinet member rail to match the depth of the rack.



NOTE: R (right) and L (left) are marked on the outside of the adjustable rack mounting rails to indicate the appropriate placement.

- 2. Align the rail to the desired position on the front and rear left rack post.
- 3. Secure the left rear cabinet member rail to the rear left rack post by inserting the stag (prongs) into the post.
- 4. Secure it in place using four M5 X 10 screws and four M5 conical washers.
- 5. Place the mounting plate onto the left front rack post, aligning the top screw hole with the rail.
- Verify the rail is level.
- 7. Insert one of the M5 cage nuts into the square rack hole immediately above the rail as shown in Figure 1.4.

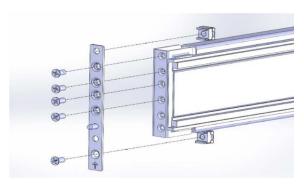


Figure 1.4 Right front mounting plate and rail



- Secure the mounting plate and left cabinet member rail onto the front left rack post using five of the M5 X 10 flat head screws. Figure 3.10 on page 39 demonstrates a properly installed right front mounting plate and rail.
- 10. Repeat steps 1 through 9 to secure the right cabinet member rail to the front and rear right rack posts.

Rail kit installation is complete. Install the enclosure into the rack.

INSTALLING THE ENCLOSURE INTO THE RACK

To install the VDS41022 JBOD Enclosure into the rack, follow these steps:



NOTE: The rail kit supports a 68.6-centimeter (27-inch) to 81.3-centimeter (32-inch) rack depth. The enclosure depth is 92.7 centimeters (36.5 inches) without the CMA, and 100.0 centimeters (39.4 inches) with the CMA installed.

1. Fully extend the cabinet member rails.



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- 2. With a second person or lift table to assist in supporting the enclosure, align the inner chassis member rails (attached to the enclosure) with the extended cabinet member rails.
- 3. Insert the inner chassis member rails into the extended cabinet member rails.
- 4. Push the enclosure into the rack until the rails lock in the serviceable position, indicated by an audible click.
- 5. With the enclosure installed in the serviceable position, reinstall the enclosure components.



Connecting the ONYX Series System

1. Connect the provided Mini-SAS HD cable to port 1 on both the 1U appliance and the 4U expansion enclosure as shown in figure 1.5.

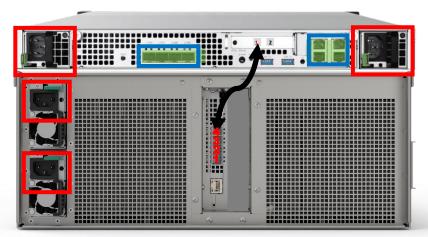


Figure 1.5 Power and Mini-SAS HD cables connectivity

- 2. Connect the provided power cables to both the 1U appliance and the expansion enclosure as shown in the red boxes.
- 3. Connect power cables from each power supply module to power sources.
- 4. Make sure to secure the power cables to the power supply modules so that they can not be pulled out accidentally.
- 5. Connect the Ethernet cables to the Ethernet ports as shown in the blue boxes



ONYX Series Chassis Power Cord Connectors



Expansion Enclosure
Power Cord Connectors



NOTE: The expansion enclosure required 200v-240v power source to have N+1 redundancy



Power on the ONYX Series System Components

- 1. Power on any network switches, routers, or other standalone components.
- 2. Power on the expansion enclosure.
 - The storage enclosure does not contain a power button. Power is controlled by the two
 power cords that plug into a power distribution unit (PDU). Fans, drives, IOMs, PSUs,
 and 5V regulators are hot-swappable and do not require the system power to be shut
 down during replacement.
- 3. Power on the ONYX Series chassis by pressing the power button on the front of the system.



Discover the ONYX Series System

You can access the ONYX Series storage management GUI using the below interfaces:

Ethernet Management port

 The default setting for the management IP address is DHCP. Check the DHCP server for the ONYX Series leased IP address and you can go directly to the ONYX Series storage management interface using a web browser e.g. http://192.168.1.x.

Note: If the LAN doesn't have a DHCP server, the management port will be assigned a fix IP address: 169.254.1.234/16. So you can configure the IP address of your management computer to the same subnet domain of the storage system, e.g.: 169.254.1.1/16. Then open a browser and enter http://169.254.1.234 to go into the login page.

Serial Port – Access the ONYX Series system directly from a computer using the provided RS-232C serial cable

- Connect your computer to the ONYX Series system using the provided RS-232C serial port cable
- 2. Launch a VT-100 terminal emulation application on your computer
- 3. Configure the serial port as (8-N-1-115200)
- Login as admin/1234
- Enter "info" to see the ONYX Series storage management IP address(es)