

## SnapExpansion® 2U Expansion Unit



### Step 1

It is **essential** that you activate your warranty. Technical and warranty support are **not available** until the warranty is active:

1. Go to <http://www.overlandstorage.com/> and select **Service & Support > My Products**.
2. At the **Site Login**, enter your **e-mail address** and **password**, and click **GO**.
3. Click **Register New Product**.
4. Fill in the information (including serial number) and click **Submit**.



Your warranty certificate will be emailed to you. Follow the instructions included in the email to complete the registration process.

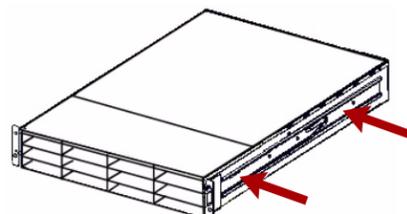
### Step 2

The SnapExpansion for the DX SnapServer appliances comes with a sliding rail rack kit for easy installation into a 19-inch (EIA-310) rack.

**IMPORTANT:** Two-post telco-style or other racks less than 29 inches in depth will NOT support this unit.

#### Attach the Inner Rail to the SnapExpansion

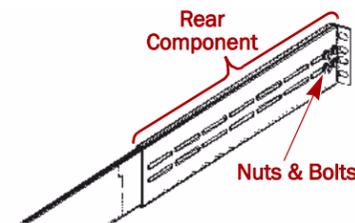
1. Select a **rail assembly** and slide the inner rail out until it stops.
2. Press the **release latch** and remove the inner rail.
3. Repeat **Steps 1–2** for the **other rail assembly**.
4. Place an **inner rail** against the unit's right side with the holes aligned.



5. Using three supplied **screws**, secure the rail to the unit.
6. Repeat **Steps 4–5** for the **left side**.

#### Size the Outer Rails to Rack

1. Measure the distance between the inside edges of the **front and rear** vertical rails on the rack.
2. Check that the outside distance between the slide rail **front and rear flanges** is slightly less than the rack internal dimensions.
3. If necessary, remove the four bolts holding the outer rail **rear component**, slide it out the needed distance, and loosely reinstall the nuts and bolts.

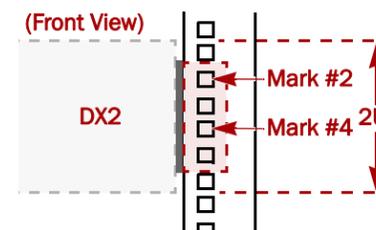


**NOTE:** For some racks, only two bolts can be used with the rear component due to the location of the slots. This does not impact the stability of the rails.

4. Repeat **Step 3** for the other rail.

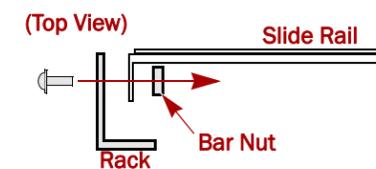
#### Attach Outer Rails

1. At the front, determine the 2U area where the DX2 is to be mounted, and mark the **second and fourth holes** from the top on both sides.



**NOTE:** The bottom rail hole is used by the captive screw on the unit to secure the DX2.

2. Position a **slide rail** between the front and rear rack rails with the rail kit flanges on the **inside** of the rack rails and pointing outward.



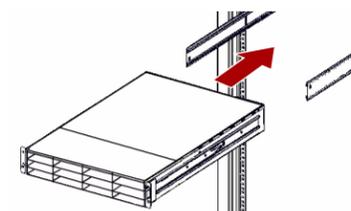
3. At the front, use **two 10-32 screws** to secure the front of the slide rail:
  - a. Align the top rail hole with the second rack hole (marked) and insert the **screw**.
  - b. Align the **bar nut top hole** with the screw and loosely secure the slide rail to the rack.
  - c. Repeat **Steps a–b** for the fourth rack hole (marked).

4. At the rear, use a **bar nut and two screws** in the top and bottom rail flange holes to loosely secure the rear of the slide rail to the rack.
5. For the **other rail**, repeat **Steps 2–4**.

#### Install the Unit

**WARNING:** It is recommended that a mechanical lifter (or at least two people) be used to raise and align the unit to prevent injury during installation. Use care when inserting or removing a unit into or out of a rack to prevent the accidental tipping of the rack, causing damage or personal injury.

1. Slide out the **middle** slide rails on both sides.
2. Using the mechanical lifter, position the SnapExpansion in front of the rack.
3. Insert the unit **inner rails** into the middle rails and slide the unit into the rack.
4. Slide the **unit** in and out a couple of times to set the rails, then tighten all the **rear** screws, and finally, pulling the unit out a few inches, tighten all the **front** screws.
5. Push the unit in and secure it to the rack with the **captive screws**.



### Step 3

The DX comes with only blank drive carriers installed (drives are sold separately). Up to 12 disk drives can be installed (with blank drive carriers filling in the empty slots).

**IMPORTANT:** To maintain proper airflow and cooling, a drive assembly or a blank drive carrier must be installed in every slot. No empty slots are allowed.

#### Install Drives

**NOTE:** Do not remove the disk drives from their carriers. Doing so voids the drive warranty.

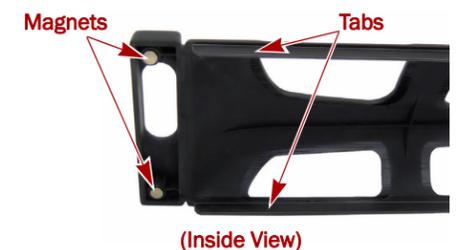
Once the SnapExpansion is in the rack, install the drives as follows:

1. Remove **blank drive carriers** from all the slots that will be used for drives.
2. Position the **drive assembly** in front of the appropriate **drive bay** and slide it in until the **latch** locks (clicks).
3. Repeat **Step 2** for **each** remaining drive assembly.
4. Verify that the **remaining slots** have blank carriers in them.



#### Attach the Bezel

1. Position the **bezel** with the top and bottom tabs aligned with the inside edges of the chassis front.
2. Move the bezel toward the unit until the **magnets** engage.
3. Verify that the bezel is **aligned** properly with all the LEDs visible and the Power Panel on the right side in line with the hole on the bezel flange.



### Step 4

**IMPORTANT:** A SnapServer head unit MUST be running GOS 7.2 or higher before attaching any SnapExpansion units. Refer to your user guide to determine the current version of GOS on the head unit and how to upgrade it if necessary.

#### Cable Attachment

All cabling, power connections, and cooling are located on the rear panel.



1. Power OFF the **system** (DX-series head unit and its expansion units).

2. Connect the **SAS cable** that came with the SnapExpansion to the upper rear port (IN). Connect the **other end** to either the DX-series head unit or a previously installed SnapExpansion (upstream).

On an “upstream” SnapExpansion, connect the cable to the lower rear port (OUT). For a DX1 appliance, the optional PCIe SAS card must be installed.

3. Attach both power cords to the **AC power** sockets on the unit.
4. Plug the **power cords** into a UPS appliance or a properly grounded AC power source.

**NOTE:** The DX-series head unit controls the power to any attached SnapExpansion units. Before powering ON the head unit, be sure all expansion units are connected and plugged in. The Power button on the SnapExpansion is an override option only.

## Step 5

### User Guides

For detailed information on configuring your SnapExpansion, refer to the SnapServer *Administrator’s Guide for GuardianOS* or the *GuardianOS Release Notes* for the latest GuardianOS release.

They are **available online** at:

<http://docs.overlandstorage.com/snapserver>

Translated versions of this Quick Start Guide are also available on the web page.



### Specifications

Feature	Specification
<b>Dimensions</b>	Width: 17.17 in (436 mm) Depth: 26.32 in (668.5 mm) Height: 3.36 in (85.3 mm), 2U Weight, Empty: 32.9 lbs (14.9 kg)
<b>Power</b>	Power Rating: 500W, 100-240 VAC, 50-60 Hz. Input Current: 2.5A (RMS) for 100 VAC, 1.4A (RMS) for 240VAC, auto-sensing. Power Consumption: 160W (steady state) Heat Dissipation: 546 BTUs/hr.
<b>Operating Environment</b>	50° F to 104° F (10° C to 40° C) 20% to 80% humidity (noncondensing) Altitude: -1000 ft. to 10,000 ft. (-305m to 3,048m)
<b>Non-Operating Environment</b>	14° F to 149° F (-10° C to 65° C) 5% to 95% humidity (noncondensing) Altitude: -1000 ft. to 35,000 ft. (-305m to 10,668m)
<b>Regulatory Certifications</b>	cTUVus, CE (EMEA), FCC Class A, and VCCI

### Warranty and Technical Support

**WARNING:** This device has more than one power cord. Disconnect ALL power supply cords before servicing.

For warranty and technical support information, see our [Contact Us](#) web page:

<http://www.overlandstorage.com/company/contact-us/index.aspx>

To information on contacting Overland Technical Support, see our [Contact Support](#) web page:

<http://docs.overlandstorage.com/support>

To search for more service information, visit our [Expert Knowledge Base System](#):

<http://support.overlandstorage.com/kb>

