

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:

- Go to <http://www.overlandstorage.com/> and select **Service & Support > My Products**.
- At the **Site Login**, enter your **e-mail address** and **password**, and click **GO**.
- Click **Register New Product**.
- 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

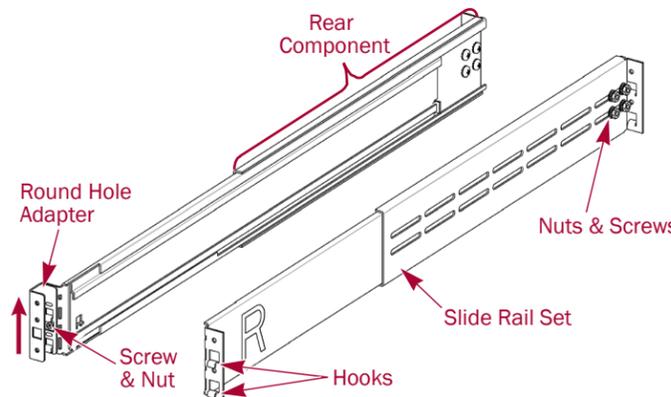
The SnapExpansion comes with a sliding rail rack kit for easy installation into a 19-inch (EIA-310) rack. There is a left (L) and right (R) rail. They are installed with the end flanges pointing outward and the rail hooks opening downward.

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

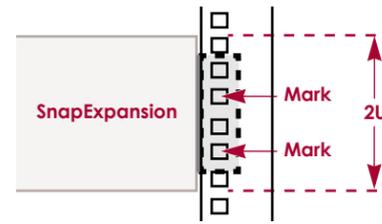
Attach the Inner Rail to the SnapExpansion

- Take the **left (L) rail assembly** and slide the inner rail out until it stops.
- Press the **release latch** and remove the inner rail.
- Place an **inner rail** against the server's left side (when facing the unit), aligning the screw holes with the latch release nearer the rear.
- Secure the rail using the three M3x4mm **screws** in the countersunk holes.
- Repeat [Steps 1-4](#) for the **right (R) rail assembly**.

Size the Outer Rails to Rack



- Determine the 2U area where the unit is to be mounted, and mark the **third and fifth holes** on both sides, front and back.
- Note the distance between the inside edges of the rack's **front and rear rails**.
- If installing the rails in a **round-holed rack**, attach the adapters to both ends of the left rail assembly:



NOTE: There are two sets of adapters. Each set consists of two mirror-imaged versions. They are installed with the square holes on the bottom and the open sides facing inward.

- With the rail **hooks** facing down, insert them through the top and bottom square holes of the adapter.
- Push the **adapter** up until it is fully engaged.
- With the **flat-head screw** inserted through the countersunk hole side of the **cup washer**, insert them in the hole between the hooks and tighten. Be sure the cup washer goes into the square hole and is flush with the adapter.

- Loosen the **four nuts and screws** holding the rear slide component.
- Verify that the **length** of the slide rail is slightly less than the internal distance measured between the rack's vertical rails. If necessary, remove the four nuts and screws holding the **rear component**, slide it out the needed distance, and loosely reinstall them.

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

- Repeat [Steps 3-5](#) for the right rail assembly.

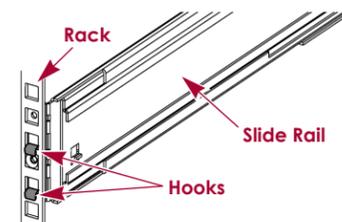
Attach Outer Rails

Depending on the type of rack, different methods of installation are used.

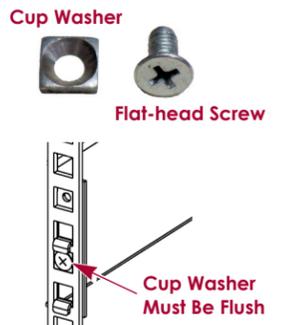
NOTE: The top hole of the rail is used by the server captive screw to secure the server.

Square-holed Racks

- Position the **left (L) slide rail** between the left-side vertical rack rails with the flanges **inside** the rack and pointing outward.
- Insert the front flange **hooks** into the two marked holes and press down.
- Extend the **rear component** and hook the rear flange into the rack.



- Repeat [Steps 1-3](#) for the **right (R) slide rail**.
- Secure the **left slide rail** to the rack:
 - Insert a **flat-head screw** through the countersunk hole side of a **cup washer**.
 - At the front of the left rail, insert them into the **hole** between the hooks and tighten. Be sure the cup washer goes into the square hole and is flush with the rack.
 - Repeat [Steps a-b](#) for the front **right rail**.
- Repeat [Step 5](#) for the **rear** of both rails.
- On both rails, tighten the **nuts and screws** to secure the rear components.

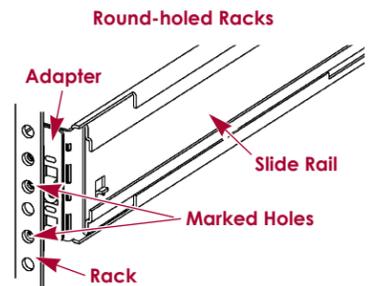


This completes the installation of the rails. Continue now with ["Install the Unit."](#)

Threaded Round-holed Racks

Two sets of adapters are provided for threaded round-holed racks.

- At the front, screw **two pan-head screws** into the left marked rack holes until their tips are flush with the inside edge of the rack rail.
- Repeat [Step 1](#) for the left **rear**.
- Position the **left (L) slide rail** between the left-side vertical rack rails with the middle rail toward the **inside**.
- Continue screwing in the **front screws** until they secure the front flange.
- At the rear, continue screwing in the **rear screws** until they secure the rear flange.
- Secure the rear component **nuts and screws**.
- For the **right-side rail**, repeat [Steps 3-5](#).



This completes the installation of the rails. Continue now with ["Install the Unit."](#)

Non-threaded Round-holed Racks

Two sets of adapters are provided for non-threaded round-holed racks. The screws securing the rails are loosely installed now and are secured when the unit is installed.

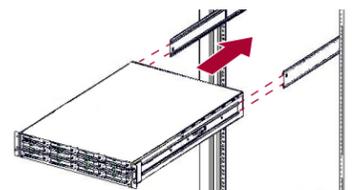
- Position the **left (L) slide rail** between the left-side vertical rack rails with the middle rail toward the **inside**.
- At the front, loosely install **two screws** through the marked holes into the adapter.
- At the rear, fully extend the rear component and loosely install **two screws** through the marked holes into the adapter.
- Repeat [Steps 1-3](#) for the **right (R) slide rail**.
- On both rails, tighten the **nuts and screws** on the rear components.

This completes the installation of the rails. Continue now with ["Install the Unit."](#)

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.

- Slide out the **middle slide rails** on both sides.
- Using the mechanical lifter, position the **server** in front of the rack.
- Insert the server **inner rails** into the middle rails and slide the server into the rack.



4. For a round-holed rack:

- Slide the **server** back and forth once to set the rails.
 - Push the server in and tighten the four **rear rail** screws.
 - Pulling the unit out a few inches, tighten the four **front rail** screws.
 - Push the server all the way into the **rack**.
5. Secure the server to the rack with the **captive screws**.

Step 3

The unit 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.

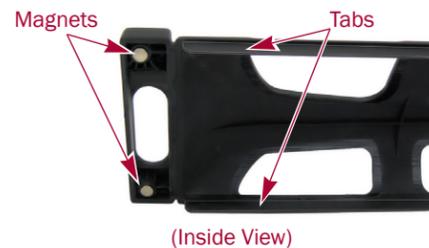
Once the SnapExpansion is in the rack, install the drives as follows:

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



Attach the Bezel

- Position the **bezel** with the top and bottom tabs aligned with the inside edges of the chassis front.
- Move the bezel toward the unit until the **magnets** engage.
- 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.



- Power OFF the **system** (DX-series head unit and its expansion units).
- 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.
- Attach both power cords to the **AC power** sockets on the unit.
- 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.



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>

For 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>

