

## SnapSAN™ Expansion 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:

- Note the product **serial numbers** from the box labels or on the products.
- 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 unit serial number) and click Submit.
- Register the **Adaptor** module:
  - Click the **Manage Products** button.
  - From the **Product Selector** drop-down list, select the unit in which the controller is installed.
  - Click **Add a Component**.
  - Enter the controller **information**.
  - Click **Save & Exit**.
- Repeat [Step 6](#) for the **secondary** Adapter module.

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

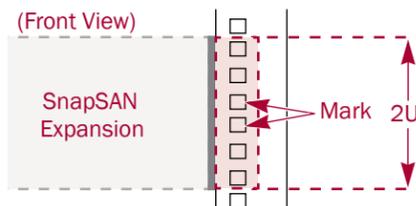
### Step 2

The SnapSAN Expansion arrays come with a rail kit for easy installation into a 19-inch (EIA-310) rack.

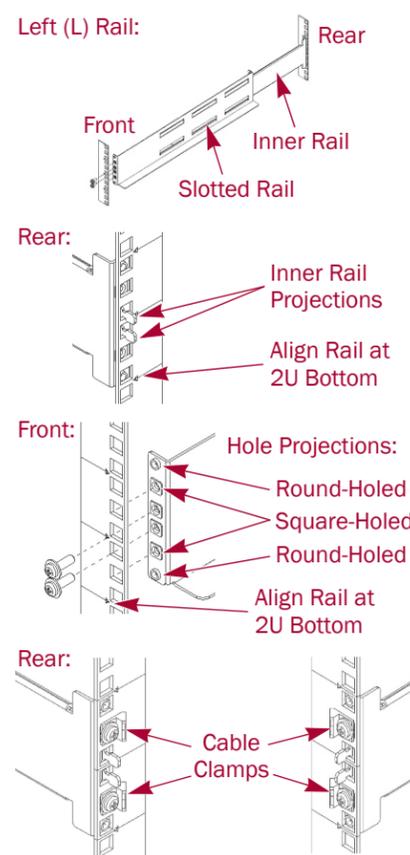
*NOTE: Two-post telco-style racks or racks less than 29 inches deep will not support this unit.*

#### Install Rail Kit

- Determine the 2U area where the SnapSAN is to be mounted, and mark the **third and fourth holes** on both sides, front and back.  
It should be directly above the last unit in the system.



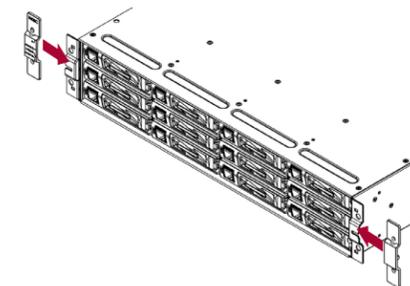
- Position the **left rail** between the left-side vertical rack rails with the rail kit flanges **inside** the rack and pointing outward.  
The slotted section is the front and the tray portion faces inward.
- Align the bottom of the **rail rear** with the lower rack 1U mark, and insert the two **inner rail projections** into the marked holes.
- Align the bottom of the **rail front** with the lower rack 1U mark, and fit the **hole projections** into the rack holes.  
The top and bottom projections are for round-holed racks while the second and fifth are for square-holed racks.
- Secure the front using **two M5 screws** in the marked rail holes.
- At the **rear**, secure the rail:
  - Verify the **two projections** are still in the marked holes.
  - Insert the **two M5 screws** into the cable clamps and screw them loosely into the holes above and below the marked holes (with the projections).
  - Align the **cable clamps** facing outward and tighten the screws.
- For the **right rail**, repeat [Steps 2–6](#).



#### Attach Ear Bezels

*NOTE: If using the optional full front bezel, skip this step and install the optional bezel after the unit is in the rack using the instructions that come with the bezel.*

- Before mounting the disk array in the rack, install the bezel clips for the front bezel:
- Slide the **left connector** with the LED names onto the left flange on the array.
  - Slide the **right connector** with the Overland Storage logo onto the right.

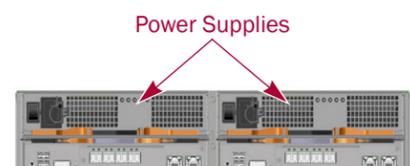


#### Install the Unit

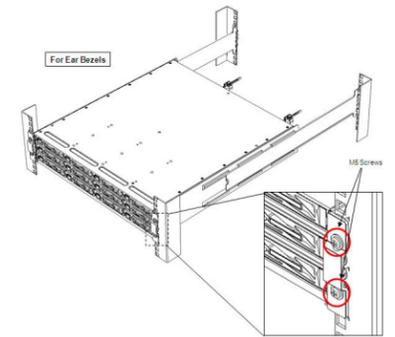
**WARNING:** It is recommended that a mechanical lifter (or at least two people) be used to raise and align the unit to prevent injury during installation. Use care when inserting or removing a unit into or out of a rack to prevent the accidental tipping of the rack, causing damage or personal injury.

**AVERTISSEMENT:** Afin d'éviter des blessures pendant l'installation, il est recommandé d'utiliser un monte-charge (ou au moins deux personnes) pour élever ou aligner l'appareil. Faites attention lorsque vous insérez ou retirez l'appareil d'un support, pour empêcher le déversement accidentel de la crémaillère causant des dommages et des blessures.

- Using the mechanical lifter, position the **SnapSAN Expansion** unit in front of the rack at the level of the rails.  
When properly positioned, the unit should have the power supplies at the top and the adapters at the bottom.



- Place the rear of the unit on the **rail tray tabs**.
- Slide the **unit** into the rack until the ear tabs are flush against the front rails.
- Secure the unit by screwing **four M5 screws** into the front of the unit in two places on both the left and right ear tabs.



### Step 3

#### Disk Drives

Depending on the model, the array comes with up to 12 or 24 disk drives pre-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.

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

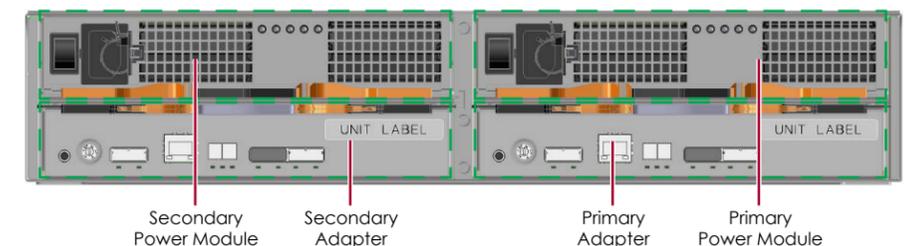


If Used, Place Location Label Here on Each Drive

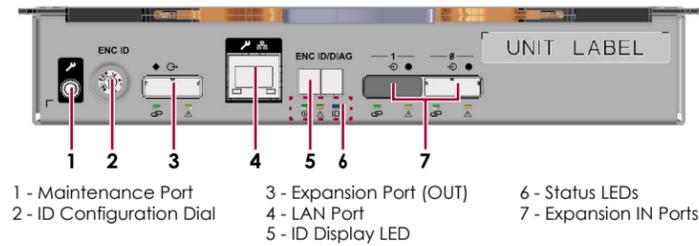
### Step 4

#### Cable Connections

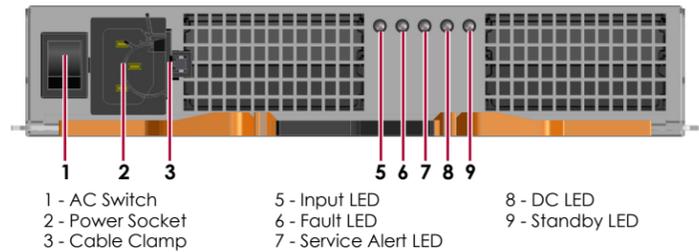
All cabling, power connections, and cooling are located on the rear panel. The example below shows an array with dual adapters.



The following graphic show the connections for the **Adapter**:



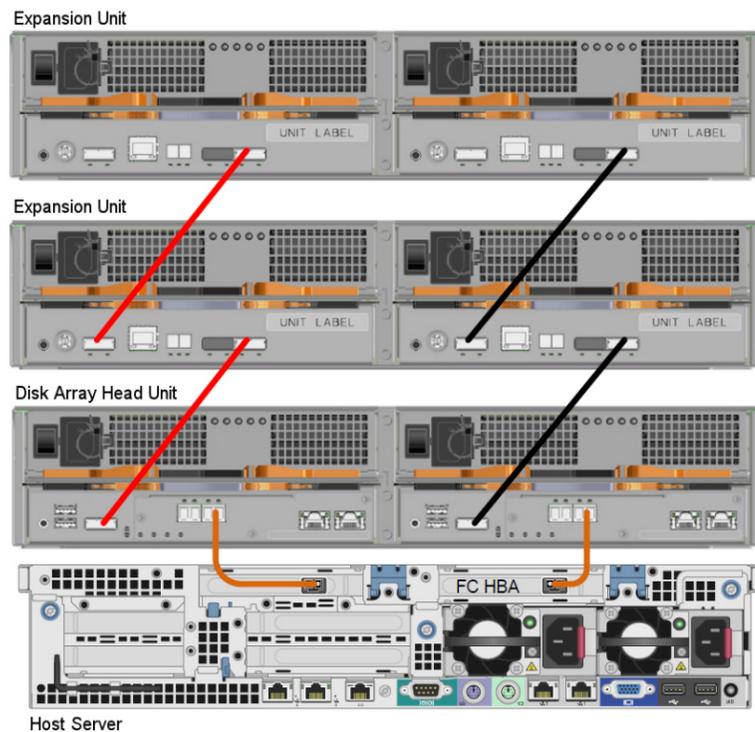
The following graphic shows the connections and LEDs for a **Power Supply Module**:



### Attaching Cables and Power Cords

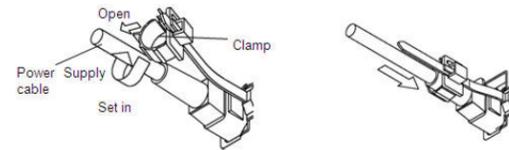
*NOTE: For more details and options, refer to the SnapSAN S3000/S5000 User Guide.*

**Example** - Dual FC Controllers, dual HBAs, and two expansion units:



1. Connect the **SAS cable** (black) that came with the SnapSAN Expansion to the Port 0 of Adapter 0. Connect the other end to the Expansion Port of the unit below:
  - If connecting to a head unit, attach the cable to Controller 0.
  - If connecting to another expansion unit, attach the cable to Adapter 0.

2. If configuring a **redundant-paths** configuration, repeat [Step 1](#) to attach the cable (red) to either Controller 1 or Adapter 1.
3. With the Power switches set to OFF, attach both power cords to the **AC power** sockets on the unit.



- a. Slide the power cord support **clamp** down toward the end of the support.
  - b. Open the clamp, insert the **power cord**, and close the clamp.
  - c. Slide the clamp back up the support to the start of the **plug**.
4. Plug the **power cords** into a UPS appliance or a properly grounded AC power source.

### Turning the Power ON

Be sure any SnapExpansion units are powered ON before turning on the disk array.

### Step 5

SnapSAN Expansion unit **maximum usage** models:

SnapSAN S3000		SnapSAN S5000	
2.5 inch Drives	3.5 inch Drives	2.5 inch Drives	3.5 inch Drives
DE 07	PD 700 to 70B	DE 07	PD 700 to 70B
DE 06	PD 600 to 60B	DE 06	PD 600 to 60B
DE 05	PD 500 to 50B	DE 05	PD 500 to 50B
DE 04	PD 400 to 40B	DE 04	PD 400 to 40B
DE 03	PD 300 to 30B	DE 03	PD 300 to 30B
DE 02	PD 200 to 20B	DE 02	PD 200 to 20B
DE 01	PD 100 to 10B	DE 01	PD 100 to 10B
DAC	PD 000 to 00B	DAC	PD 000 to 00B

Abbreviations used:

- DE = Disk Enclosure
- PD = Physical Disk (drive)
- DAC = Disk Array Component

### Step 6

#### User Guides

For detailed information on configuring your SnapSAN Expansion, refer to the *SnapSAN S3000/S5000 User Guide*. For information on managing one or more SnapSAN arrays, refer to the *SnapSAN Manager Suite User Guide*.



Both guides are **available online** at:

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

Quick Start Guide translations are also available there.

#### Warranty and Technical Support

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

**AVERTISSEMENT:** Cet appareil a plus d'une cordon d'alimentation. Débranchez TOUTES les cordons d'alimentation avant l'entretien.

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>



<http://support.overlandstorage.com>  
You can get additional technical support on the Internet at the [Overland Storage Support web page](#), or by contacting Overland Storage using the information found on the [Contact Us](#) page on our web site.  
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