

SnapSAN™ S2000

2U Storage Appliance



Step 1 - Required Registration

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

- 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 to complete the registration process.

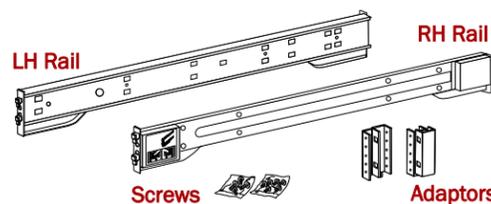
Step 2 - Installation

WARNING: Use care during rack installation or removal to prevent accidental tipping of the rack causing damage or personal injury.

AVERTISSEMENT: Soyez prudent lors de l'installation ou de l'enlèvement du support afin d'empêcher le renversement accidentel de la crémaillère, pour éviter dommages et blessures.

The S2000 rail kit can be installed in either square- or round-holed 19-inch (EIA-310) racks.

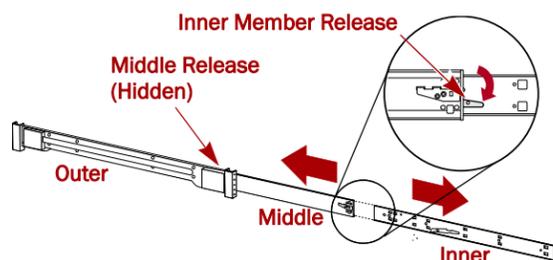
NOTE: Two-post telco-style or other rack less than 29-inches in depth will NOT support this unit. Also, for threaded-hole racks, we recommend using a shelf.



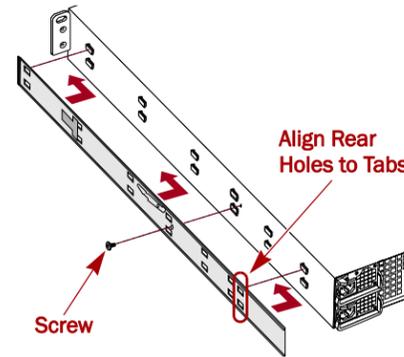
The rails are not universal. They are stamped LH (left) and RH (right) and must be mounted on the appropriate side (when facing the rack).

Attach Inner Rails to Chassis

- Mark the **screw holes** where the rails are to be installed in the rack, making sure the rear holes are level with the front holes.
- Remove the **inner rail** from the rail set:



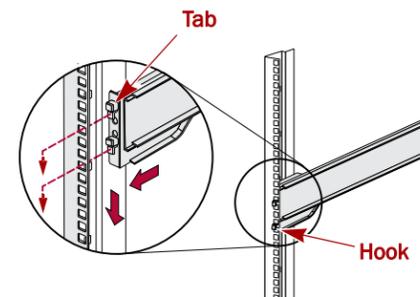
- Fully extend the **rail set**.
 - Push the inner member **latch** down, and remove the **inner rail**.
 - Release and slide the **middle member** back into the outer member.
- Attach the **right inner** member:
 - Facing the chassis, position the **rail** against the right side with the locking tabs going through the holes on the rail.
 - Slide rail toward the **front** to lock. This may require some force as it is a tight fit.
 - Secure rail with the Phillips **screw**.
 - Repeat **Step 3** to install the **left** inner member.



IMPORTANT: Depending on your rack type, continue with either the **“Square-Holed Rack Installation”** or **“Round-Holed Rack Installation”** section.

Square-Holed Rack Installation

- Position the **left outer** rail on the inside of the front rail (with the hooks in line with the holes).
- Insert** the front bracket into the rack rail and **press down** so that the hooks catch.

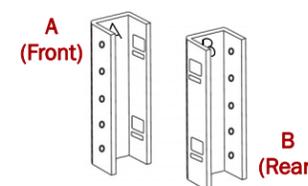


- The spring-loaded tabs extend into the holes to prevent the rail from coming loose.
- Slide the **rear segment** of the bracket rearward, **insert** the bracket into the rear rail, and **press down** so that the hooks catch and the tabs lock.
 - Repeat **Steps 1–3** for the **right** slide rail assembly.

Continue with **“Install the Unit in the Rack.”**

Round-Holed Rack Installation

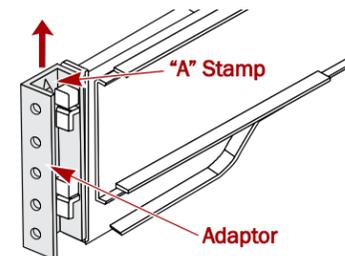
Before installing the rails on an unthreaded round-holed rack, the round-hole adaptors must be installed on the ends of the outer rail members.



- Attach the **adaptors**:
 - Position the adaptor stamped “A” at the front of the **left** rail.

NOTE: Make sure the “A” stamp is at the top and the square adaptor holes are aligned with the rail hooks.

- Press the **adaptor** onto the hooks and slide it **upwards** until it locks (clicks) with the tabs snapping into place.
 - Repeat **Steps a–b** for the left **rear** adaptor (stamped “B”).
- Position the **left outer** rail on the inside of the front rail with the holes aligned with the marked rack holes.
 - Loosely attach the rail **front** to the rack with the screws.
 - Slide the **rear rail segment** rearward until the **rear** adaptor holes are in line with the marked rack holes.



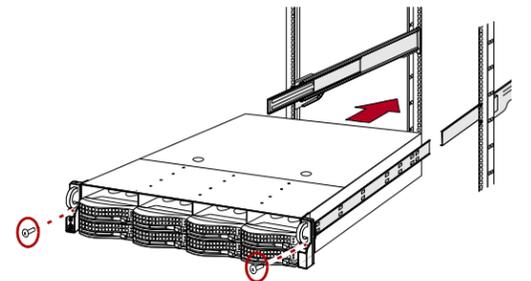
- Secure the **rear** of the rail to the rack with the screws, and then tighten the front screws to secure it.
- Repeat **Steps 1–5** for the **right rail**.

Install the Unit in the Rack

WARNING: It is recommended that a mechanical lifter (or at least two people) be used during rack installation or removal to prevent injury.

AVERTISSEMENT: Pour éviter toute blessure il est recommandé qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.

- At the front, extend both **middle** rail members until they lock (click).
- Using a mechanical lifter (or two people), lift and engage the S2000 **inner rails** with the rack rails.
- Slide the S2000 into the rack until it stops.
- Using the **two screws** provided, secure the S2000 flanges to the rack.



Step 3 - Drive Insertion

The S2000 comes without disk drives installed (they are sold separately in singles and 4-packs). A combination of 4 to 12 SAS and/or SATA drives can be installed with blank drive carriers filling in the remaining empty slots.

Recommended Drive Configurations

Before adding additional drive assemblies, note the following:

- Different capacity drives can be installed but should not be in the same RAID array because capacity for all drives in the RAID is limited to the capacity of the smallest drive member.
- Drives of different rotational speed (such as, SAS and SATA drives) can be installed, but they should not be mixed in the same column. Additional Global Hot Spares are needed for the different drive types.

Install Drives

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

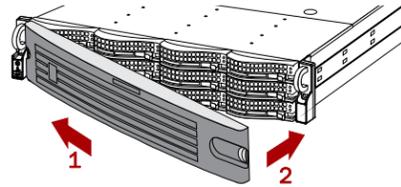
Once the S2000 is in the rack, install the drives. Initially, the top row is empty and the other two rows are filled with drive blanks. Remove as many blanks as needed:

- Remove any **blanks** by pressing the lever release button and pulling it out.
- Release the lever on the **drive assembly**, position it in front of the appropriate **bay**, and slide it in until resistance is felt.
- Push the **lever** in to lock the assembly in the bay.
- Repeat **Steps 1–3** for **each** remaining drive carrier.

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. A minimum of four drives must be installed for proper operation.

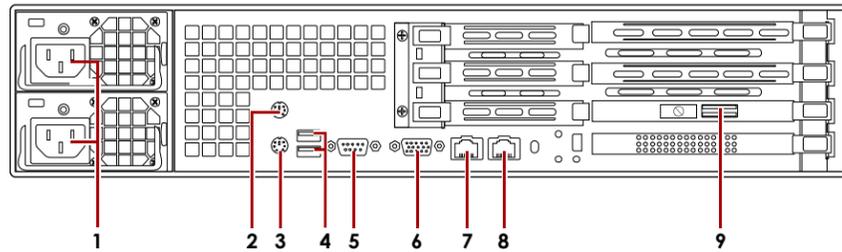
Attach the Bezel

1. Insert the **bezel tabs** into the flange holes.
2. Push the **other side** in until it latches (clicks).
3. If desired, **lock** the bezel.



Step 4 - Cabling

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



- | | | |
|-------------------|--------------------|---------------------|
| 1 - AC Power | 4 - Dual USB Ports | 7 - Data Port 1 |
| 2 - Mouse Port | 5 - COM Port | 8 - Data Port 2 |
| 3 - Keyboard Port | 6 - Video Port | 9 - Active SAS Port |

1. For a basic **network connection**, plug a Category 5e (or better) cable into Data Port 1 and a Gigabit Ethernet switch on the same LAN segment as the management system.
See the user guide for information on the optional ports.
2. Attach the power cords to the **AC Power** sockets on back panel.
3. Plug the **power cords** into a UPS or AC power source.

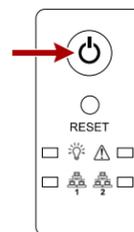
Step 5 - Set Up

NOTE: You must leave the appliance ON while completing any configuration processes for your application.

1. Press and hold the **Power switch** on the left flange no more than one (1) second to power on the S2000.
2. Verify that both an **iSCSI Initiator** and the **.NET (dot NET) framework** is installed on each Windows host.
3. Install the Windows **SnapSAN Manager Suite** software on a host computer attached to the same subnetwork.
Download the file from the Overland web site:

<http://support.overlandstorage.com/support/snapsan.htm>

4. Launch the **Windows SnapSAN Manager** on the host by selecting Windows Start > All Programs > SnapSAN > SnapSAN Manager.
Automatically, the program attempts to discover and connect to any new S2000 appliances connected to the subnetwork.
5. Windows SnapSAN Manager then launches the **SnapSAN Appliance Setup Wizard** to guide you through the setup process:
 - a. At the **Before You Begin** page, click Next.
 - b. At the **Licensing Agreement** page, read the terms, click the check box to indicate you accept the terms, and click Next.



- c. At the **Identity** page, if you want to rename the appliance, enter a new name, and click Next.

NOTE: We highly recommend changing the name to help identify the appliance on the network. The name must start with a letter; subsequent characters may be letters, numbers or hyphens. Shorter names work best.

- d. At the **Password** page, you must enter a password for the appliance, confirm it, and click Next.

IMPORTANT: Overland recommends using a password of at least six alphanumeric characters.

- e. At the **Pool Creation** page, select the type of policy you want, and click Next. See the user guide for complete details.

NOTE: If you want to create multiple pools or to create a pool using only selected disks in the enclosure, select **Don't Create Pool**. Later, use **Windows SnapSAN Manager** to create the desired pools.

- f. At the **Summary** page, click Close to accept your settings.

When the wizard finishes, the Windows SnapSAN Manager Home screen is displayed.

At this point, your S2000 is ready to be configured for your specific environment and needs:

- The Windows SnapSAN Manager software provides easy access to the Overland storage systems on the network.
- You can also use the Web Management Interface to configure a specific appliance, even from a non-Windows operating system. Launch your web browser and use the following default **login** (case-sensitive):

User Name: **admin**
Password: **password**

Refer to the *SnapSAN S2000 User Guide* for further details.

Step 6 - More Information

Special Notes

- The **alarm mute and disable** buttons can be found in different places:
 - In the **Windows SnapSAN Manager**, they are found in the tasks list under Manage SnapSAN Pool.
 - In the **Web Management Interface**, they are found by clicking the subsystem name (link) under Pools.
- To help identify a disk drive that is currently allocated as a Hot Spare, the **red LED blinks** on the front of its drive carrier. This blinking action also denotes that the Hot Spare is active and healthy.
- If your OS supports **MPIO**, you must install and enable MPIO with your iSCSI initiator.
- Replication and Mirroring are **optional features** that require additional licenses to activate.

Check for Software Updates

The latest release of the S2000 software can be obtained from the Overland Storage web site:

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

Entitled users can follow the link at the bottom of the page to access the firmware.



User Documentation

For detailed information, refer to the *SnapSAN S2000 User Guide* available online at:

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

Click the link on the right side of the page to view the document.



Warranty and Technical Support

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

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

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

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

