

NEOxI 40

3U Tape Library Base Unit
and Expansion Modules



Step 1

It is **essential** that the product be registered because technical and warranty support is **not available** until then.

For an existing customer:

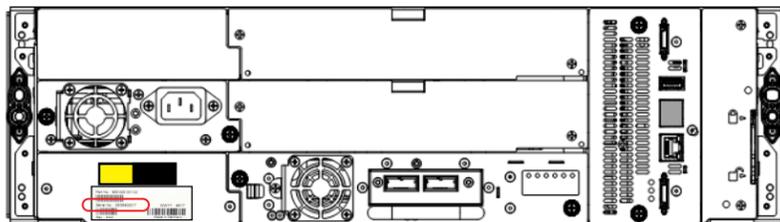
1. Go to <http://support.overlandstorage.com/support> page.
2. Enter your **e-mail address** and **password**, and then press **Enter** or click the right arrow (>).
3. At the Support Home page, click **Register New**.
4. Enter the requested information and click **Submit**.



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

For a new customer, go to the **New User Registration** page and follow the instructions.

The serial number is located on the bottom left cover at the rear.



NOTE: You will receive a confirmation e-mail from Overland with instructions on how to complete the registration process.

Step 2

- WARNING:** Due to the weight of the module, it is recommended that at least two people be used to lift the module out of the box to prevent injury.
- WARNING:** Um Verletzungen zu vermeiden, empfehlen wir aufgrund des Gewichts des Moduls, dass mindestens zwei Personen das Modul aus der Verpackung heben.
- AVERTISSEMENT:** En raison du poids du module, il est recommandé d'utiliser deux personnes au moins pour soulever l' module hors de la boîte pour éviter les blessures.

NOTE: If the temperature in the room where the module will be installed varies by 15° C (30° F) from the room where the boxed module was stored, allow the module to acclimate to the surrounding environment for at least 12 hours before unpacking it.

1. Using two people, remove the **module** from its box and set it on a secure surface.
2. Remove any **packaging materials and tape** from the module.
3. For the base module, remove the **robotics insertion foam**:
 - a. Using two small screwdrivers, unlock and remove the **top cover plate**.
 - b. Lift the **front edge** about 5 in. (12cm) and pull forward to disengage the cover; set the cover aside.
 - c. Remove the **foam** from the center.
 - d. If you are only installing the base module, replace the **cover**.

Step 3

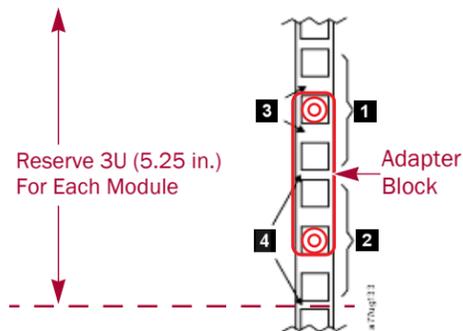
A NEOxI 3U tape library module comes with a rack kit for easy installation and securing of the module into a 19-inch (EIA-310) rack.

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

Install the Rack Rails

1. Determine the location in your rack for your module to be installed and, using a pencil, mark the **location** on each vertical rail in your rack.
It is recommended to start at the lowest position of the rack for stability. The bottom mark should be at the lowest narrow gap.

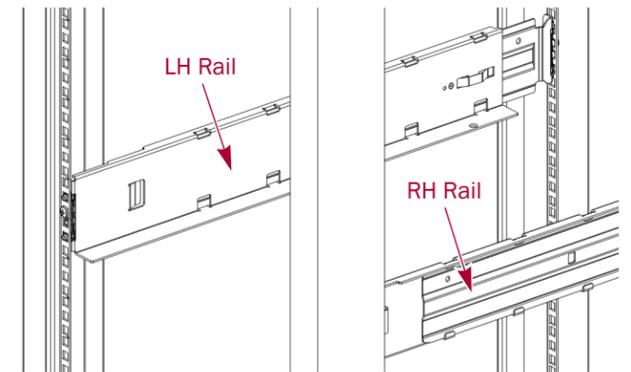
NOTE: The modules require 3U (5.25 in.) of rack space each.



- 1 & 2 Each EIA unit (1U) starts at a narrow gap and has three holes and two wide gaps above it
- 3 Wide Gaps within the EIA unit
- 4 Narrow Gaps between EIA units

2. On the front of the rack, mount the left and right adapter blocks with the lower fixed nut in the middle hole of the bottom 1U space reserved for the module.
3. Secure the adapters with a **screw** through the front into one of the middle holes.
4. Mount the **rear adapters** making sure they are level with the front ones.
5. Mount the **LH Rackmount rail** to the left adapter blocks with the tray flange parallel to the floor and facing inward.

6. Mount the **RH Rackmount rail** to the right adapter blocks.



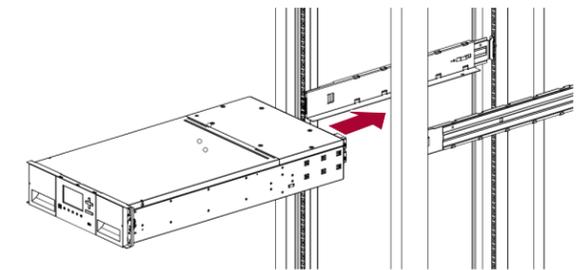
Insert the Module in the Rack

- WARNING:** To avoid injury, it is recommended that a mechanical lifter (or at least two people) be used for rack installation or removal. Use care during rack installation or removal to avoid accidentally tilting or tipping the rack, causing damage or personal injury.

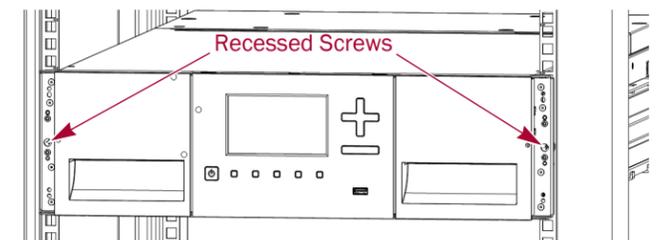
WARNING: Um Verletzungen zu vermeiden, empfehlen wir zur Rack-Installation oder -Deinstallation die Nutzung einer mechanischen Hebehilfe (oder mindestens zwei Personen). Seien Sie vorsichtig bei der Rack-Installation oder -Entnahme, um ein versehentliches Kippen des Racks zu vermeiden und das Rack nicht zu beschädigen bzw. sich selbst zu verletzen.

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' module. Faites attention lorsque vous insérez ou retirez l' module d'un support, pour empêcher le déversement accidentel de la crémaillère causant des dommages et des blessures.

1. Using the mechanical lifter, position the **module** in front of the rack, aligned with the rails.
2. Slide the module onto the **rail flanges** and into the rack until it stops.



3. Secure it to the rack with the **recessed Phillips screws** in the middle of the front flanges of the module to the adapter's top fixed nut.



Step 4

WARNING: To reduce the risk of electric shock or damage to equipment, always remove any power cords while working with the equipment.

WARNUNG: Um das Risiko eines elektrischen Schlags oder Schäden am Gerät zu vermeiden, ziehen Sie stets den Netzstecker, bevor Sie an der Einheit arbeiten.

AVERTISSEMENT: Pour réduire le risque de choc électrique ou endommagement de l'équipement, retirez toujours les cordons électriques en travaillant avec l'équipement.

The NEO XL-Series tape libraries are expandable and accept add-on components to enhance performance:

- The library modules come with one tape drive. Additional tape drives can also be installed. Always install the drives from the bottom up.
- Expansion modules can be added to the library stack of modules.

All modules and components should be installed in the rack before hooking up the system cables. Follow the component instructions included with each item.

Step 5

Cable Attachment

CAUTION: It is recommended that you shut down and turn OFF the associated server. Turn OFF all attached devices. Remove the power cables from the server and all attached accessories. Failure to remove the power cords from these devices before connecting the host interface cable could result in damage to the equipment.

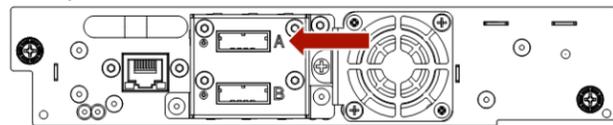
All cabling, power connections, and cooling are located on the rear panels.

1. Attach one end of the **host interface cable** to the module:

- For a Serial Attached SCSI (SAS) connected module, attach one end of the **SAS cable** to Port A SAS HBA (top) on the SAS drive.

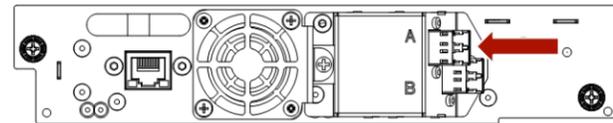
If you are using a SAS fanout/hydra cable, attach one mini-SAS connector into the connector on each tape drive. The unused ends of the SAS fanout cable are single channel and not suitable for use with disk arrays. Use the other ends to connect tape drives, or coil and secure them to the rack to minimize stress on the connectors.

SAS Tape Drive



- For a Fibre Channel (FC) module, attach one end of the **fibre cable** to Port A (top) connector on the FC drive, removing the cap if necessary.

FC Tape Drive

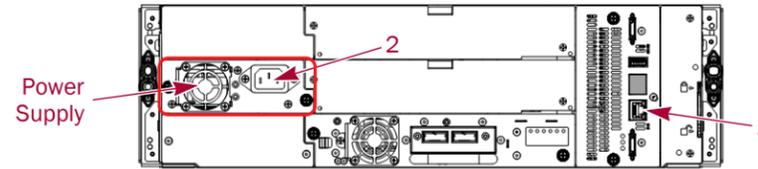


2. Attach the **other end** of the host interface cable as follows:

- For a SAS module, connect the **host interface cable** to the host HBA, using a direct SFF-8088 connection. Unused SAS connectors do not need termination. If you are using a SAS fanout/hydra cable, the end of the cable with only one connector should be plugged into the HBA
- For a Fibre Channel module, connect the **fibre cable** to the host or to a switch.

3. Plug the **network Ethernet (management) cable** into the Ethernet port (1) on the rear panel of the base module.

NOTE: If the Ethernet connection is directly attached to a server or laptop, a crossover Ethernet cable may be required. It is the customer's responsibility to supply the crossover cable if one is required.



4. Plug the **power cable** into the power connector (2) on the power supply module and into power outlets.

If the optional second power supply is installed in a module, to increase the redundancy, plug each power cord into a different AC power circuit.

Step 6

The library can be operated either locally using the Operator Control Panel (OCP) on the front of the base module or remotely using the Remote Management Interface (RMI) web interface in a browser.

Power On the Library for the First Time

1. Power ON the library by pressing the **power button** on the base module just below the OCP, illuminating the green LED.

When first powered ON, the library runs an inventory, firmware, and hardware check. It may also do an auto calibration.

2. At the first OCP screen, using the buttons to the right, choose **administrator** for the user, enter the default PIN of **0000**, and select **Login**.

3. When the Initial Configuration wizard starts, select **Next**.

The wizard will guide you through configuring the network settings, date and time, and setting a new administrator PIN. You can skip items or stop the wizard at any time.

4. Choose a **network setting** (IPv4 or IPv6), then select **Next**.

5. Enter the **date and time** information, then select **Next**.

6. Enter and confirm a **new PIN**, then select **Next**.

7. At the Finish screen, select **Finish** and press Enter to submit the configuration.

8. Select **Exit** to complete the process.

9. Log out of the **OCP**.

The RMI can be used to finish the configuration. The default password is **adm001**.



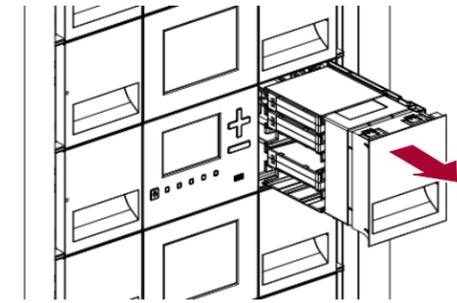
Label and Load Tape Cartridges

While the library will power ON without cartridges, cartridges are needed before performing data read and write operations, or any tests or operations that transfer cartridges. Barcode labels are recommended in production environments to improve inventory time and ease cartridge handling processes.

- **Using Mailslot Magazine for Loading** – If the mailslot is enabled, you can use it to load cartridges individually into the library. On the **Home** screen, tap **Open Mailslot**, open the magazine access door, and then pull the mailslot out for loading.
- **Using Bulk Loading Magazines for Loading** – To load cartridges in bulk, extend one or more of the tape magazines out of the library.

1. To initially load **cartridges** into the library, use magazine bulk loading:
a. From the OCP or RMI, select the module for loading and then select **Open Magazine**.

b. Open the magazine **access door** and pull the magazine out.



c. Load the **tape cartridges** into the magazine starting in the back.

d. To prevent strain on the magazine, push in the **magazine** slightly as each slot is filled.

e. When done, slowly push the magazine in by its **handle** until the release latch snaps back into place, locking the magazine.

f. Repeat **Steps a–e** for the **other magazines** until all the cartridges are loaded.

2. Verify that the library has the **current firmware** revision.

The library firmware revision is displayed in the top left corner of the OCP and RMI screens. If necessary, update the library firmware from the OCP or RMI using **Maintenance > Software Upgrades > System Firmware**.

Step 7

User Guide

An electronic version of the *NEO XL-Series User Guide* is available online at:

<https://community.sphere3d.com/docs/DOC-2460>

For additional information, visit the Overland-Tandberg Libraries Knowledge Base at:

<https://community.sphere3d.com/community/documentation/libraries>

Warranty and Technical Support

For warranty and general technical support information, see our **Contact Us** web page:

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

For information on contacting Overland-Tandberg Technical Support, see our **Contact Support** web page:

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

To search for more service information, visit our **Knowledge Bases**:

<https://community.sphere3d.com/welcome>



Support Home (<http://support.overlandstorage.com>)

You can get additional technical support on the Internet at the **Overland-Tandberg Contact Support web page**, or by contacting Overland Storage using the information found on the **Contact Us** page on our web site.

