

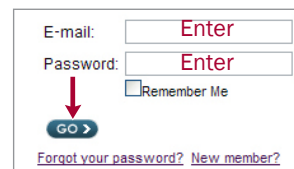
## NEO<sup>®</sup> XL-Series 6U Tape Library Modules



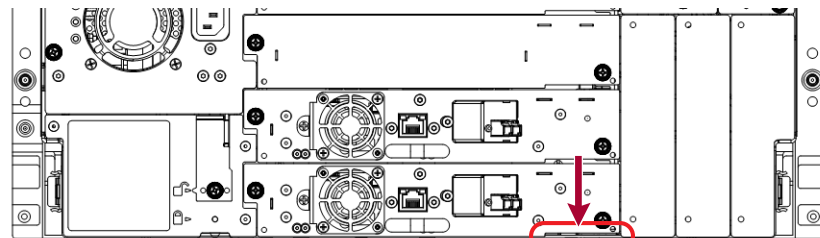
### Step 1

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**.



The serial number is located on the pull-out tab at the rear.



Enter only the core characters skipping the parenthesis, "PN:", and "SN:" components.  
**Example:** 11S00V7150Y1N1B78X9938

*NOTE:* You'll 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 appliance, it is recommended that at least two people be used to lift the unit out of the box to prevent injury.

**WARNUNG:** Um Verletzungen zu vermeiden, empfehlen wir aufgrund des Gewichts des Geräts, dass mindestens zwei Personen das Gerät aus der Verpackung heben.

**AVERTISSEMENT:** En raison du poids de l'appareil, il est recommandé d'utiliser deux personnes au moins pour soulever l'appareil hors de la boîte pour éviter les blessures.

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

1. Using two people, remove the **library** from its box and set it on a secure surface.
2. Remove any **packaging materials and tape**.

### Step 3

A NEOxl 80 tape library module comes with a rack kit for easy installation and securing of the library into a 19-inch (EIA-310) rack.

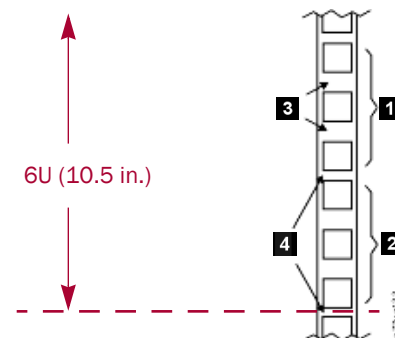
**IMPORTANT:** Two-post telco-style or other racks less than 29 inches in depth will **NOT** support this unit.

#### Install the Rack Rails

1. Determine the location in your rack for your library to be installed and, using a pencil, mark the **location** on each vertical rail in your rack.

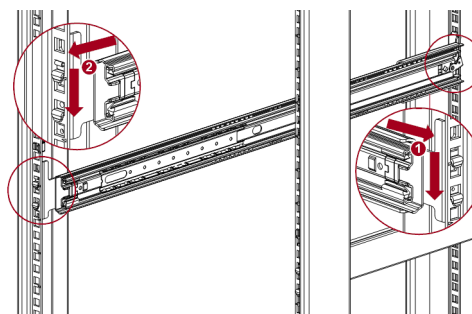
It is recommended to start at the lowest position of the rack for stability. The bottom mark should be at the lowest narrow gap in that position.

*NOTE:* The library requires 6U (10.5 in.) of rack space.



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

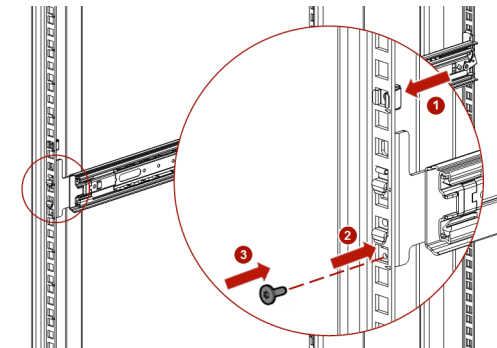
2. From the front of the rack, insert the **rack rails** into the back and then front vertical supports.
  - a. Position a rail according to the **orientation information** stamped on the rail.



- b. Rotate the front of the rail up while inserting the **rear rail hanger** into the rear vertical support, and then lower the front of the rail until it is nearly level.
- c. Extend the front of the rail until the **hangers** come through the holes in the vertical support and the retention spring snaps into place.
- d. Repeat **Steps a–c** the **other rail**.

*NOTE:* The rails must be fastened with the bottom of the each rail parallel to floor and at the same level.

3. On the front of both rails in a square-hole lock, install a **clip nut** above the mounting bracket as shown (1).



4. For increased stability, install the supplied **retention inserts** (3).

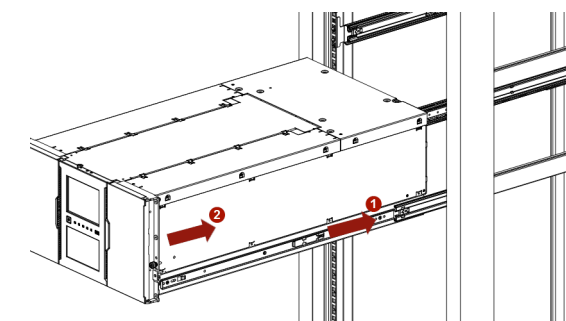
#### Insert the Library in Rack

**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.

**WARNUNG:** 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'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.

1. Extend the **middle rails** until they lock into place.
2. Move the **sliding assembly** to the front of the middle rails.
3. Using the mechanical lifter, position the **library** in front of the rack, aligned with the extended rails.
4. Slide the library onto the **middle rails** and into the rack until it stops.
5. Secure it to the rack with the **captive screws** on the front of the library.



## Step 4

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

**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'appareil.

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

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

Once the library is secure in the rack, the additional items should then be installed before hooking up the system. Follow the instructions enclosed with the add-on.

## 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 library.

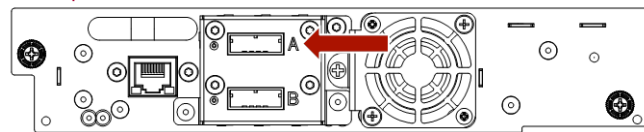
All cabling, power connections, and cooling are located on the NEOxl rear panel.

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

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

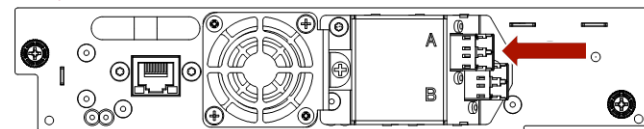
If you are using a SAS fanout/hydra cable, attach one mini-SAS connector into the connector on each tape drive. The unused ends of the SAS fanout cable are single channel and not suitable for use with disk arrays. Use the other ends to connect tape drives, or coil and secure them to the rack to minimize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

SAS Tape Drive



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

FC Tape Drive



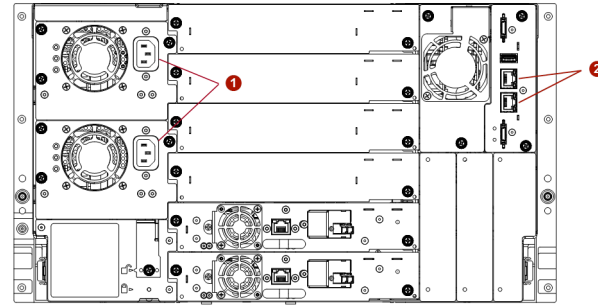
2. Attach the **other end** of the host interface cable as follows:

- For a SAS library, 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 library, connect the **fibre cable** to the host or to a switch.

3. Plug the **network Ethernet (management) cable** into an Ethernet port (2) on the rear panel of the library.

If the Ethernet connection is directly attached to a server or laptop, a crossover Ethernet cable may be required.

*NOTE: It is the customer's responsibility to supply the crossover cable if one is required.*



4. For remote access, connect an **Ethernet cable** from the bottom Ethernet ports on the library module controller to your network.

5. Plug the **power cables** into the power connectors on each module and into power outlets.

*NOTE: The library has dual redundant power supplies. To increase redundancy, plug each power cord into a different AC power circuit.*

## Step 6

The library can be operated using either the Operator Control Panel (OCP) on the front of the device or remotely using the Remote Management Unit (RMU) web interface.

### 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; the green light illuminates.

When first powered ON, the library inventories the tape cartridges, checks the firmware version on all modules, configures the tape drives, confirms the presence of the existing modules, and searches for any new modules.

2. At the IP address warning that appears in the OCP, select a IP range from the drop-down list that is not used by your network, and then press **Set and Proceed**.

Library will then reboot. After rebooting, the login screen appears in the OCP.

3. At the login prompt, choose **Administrator** (no password) and press **Login**.

The library displays a message indicating that the library has no default partition.

4. Press **OK** and the library displays **Initial Configuration** default screen.

5. Press **Next** to start the **Initial Configuration Wizard**.

The wizard will guide you through configuring the time zone, date and time, and network settings, setting the administrator password, and then start an initial system test. You can skip items and stop the wizard at any time.

6. Once you have configured the network settings and set the administrator password, run the **wizard** in the RMU to complete the remaining configurations.

7. Verify the **host connection**.

### 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. Bar code labels are recommended in production environments to improve inventory time in the library and ease cartridge handling processes outside the library.

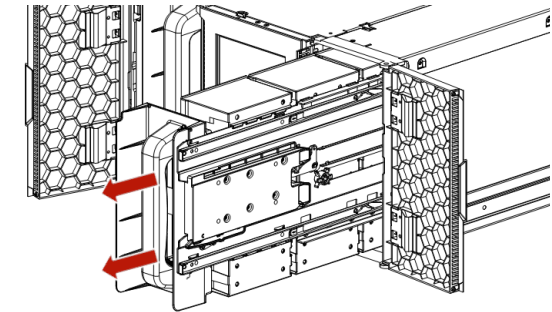
• **Using Mailslot Magazine for Loading** – If the mail slot is enabled, you can use it to load cartridges into the library. On the **Home** screen, tap **Open Mailslot**, open the magazine access door, and then pull the mailslot out for loading.

• **Using Bulk Loading Magazines for Loading** – Extend one or more of the tape magazines from the library for loading.

1. Load **cartridges** into the library by bulk using the magazines.

a. From the OCP or RMU, select the module and then select **Open Magazine**.

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



c. Load the **tape cartridges** into the magazine starting with the back of the magazine, pushing the magazine in the library slightly as each bin is filled.

d. Push the **magazine handle** in slowly until the magazine release latch snaps into place, locking it.

e. Repeat **Steps a–d** for each of the **other magazines**.

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 RMU screen. If necessary, update the library firmware from the OCP or RMU using the **Maintenance > Software Upgrades > System Firmware** screen.

## Step 7

### User Guides

For detailed information on configuring your NEO XL-Series, refer to the *NEO XL-Series User Guide* available online at:

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

For additional information, visit the NEO 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 Technical Support, see our **Contact Support** web page:

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



<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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