



Quick Start Guide

NEO XL-Series™ Expansion 6U Tape Library Expansion Module



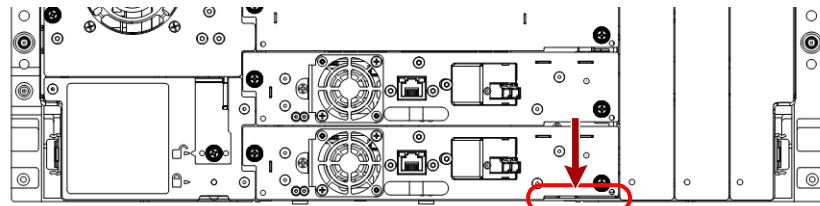
Step 1

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

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

Step 3

The NEO XL-Series expansion modules each come with a rack kit for easy installation and securing of the expansion 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.

Prepare the Modules

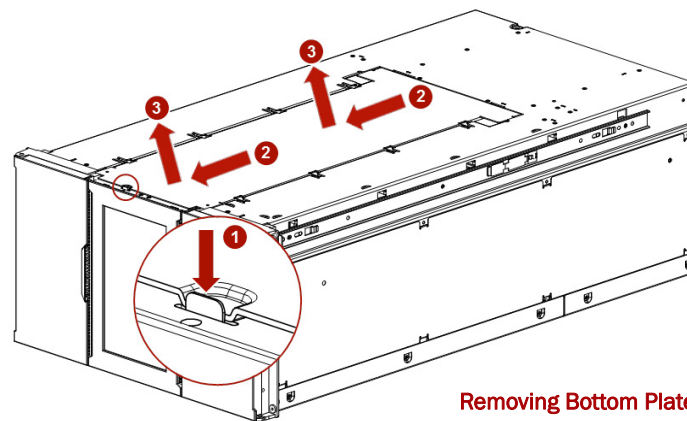
IMPORTANT: A library module can support up to six expansion modules, three above and three below. If you have not yet determined the architecture of your configuration, refer to the NEO XL-Series User Guide for guidance.

NOTE: These instructions are based on installing the expansion modules at the same time as the base library module.

1. Depending on the expansion module location, transfer the top or bottom **base module cover** to the last expansion module.
 - If you are installing expansion modules **below** the base module, move the bottom base module cover to the expansion module that will be installed at the **bottom** of the library configuration.
 - If you are installing expansion modules **above** the base module, move the top base module cover to the expansion module that will be installed at the **top** of the library configuration.

a. Place the **base module** on a work table.

If you are removing the bottom cover, gently **turn the base module over** so you can access the bottom of the module.



Removing Bottom Plate

- b. Insert a small flathead screwdriver or Torx screwdriver into the hole (1) to retract the spring lock, slide the **cover** (2) until it reaches the tool, remove the tool, and continue sliding the cover to the front of the module until all the tabs are released.
- c. Remove the **cover** (3) from the module.
- d. If the **base module** is upside down, gently turn it back over.
- e. Place the **expansion module** on the work table. If the module will be the bottom module in the library, gently turn the module over so you can access the bottom of the module.

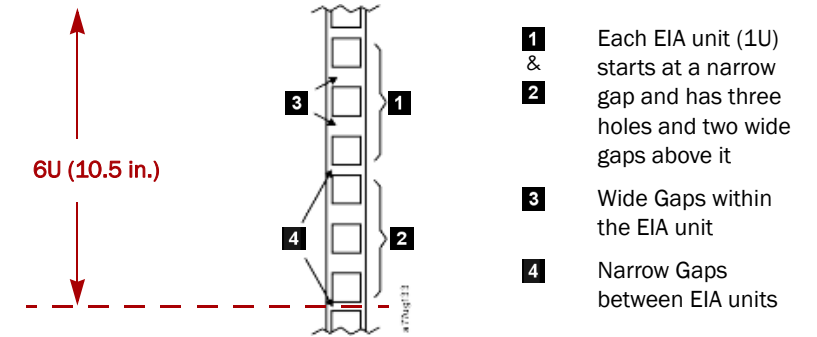
- f. Align all cover tabs with the slots on the expansion module, gently push it down, and then slide the **cover** towards the back until the spring lock engages.
- g. If the **expansion module** is upside down, gently turn it back over.

Install the Rack Rails

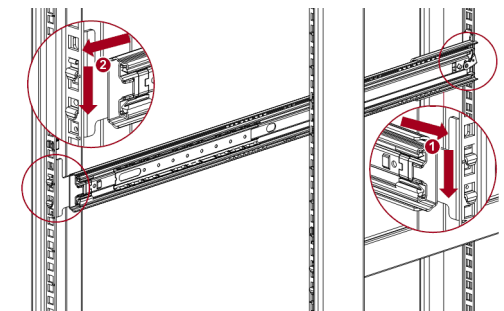
1. Determine the location in your rack where your modules will be installed and mark each **location** of the modules on each vertical rail in your rack.

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 expansion requires 6U (10.5 in.) of rack space.



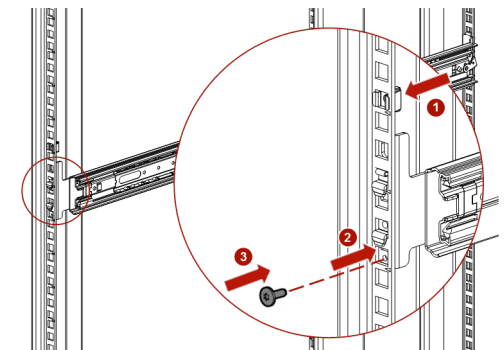
2. From the front of the rack, insert the **rack rails** into the back and then front vertical supports.
 - a. Position a rail according to the **orientation information** stamped on the rail.



- 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).

- Repeat [Steps 2–4](#) for the **remaining rail kits** for the base library and expansion modules.

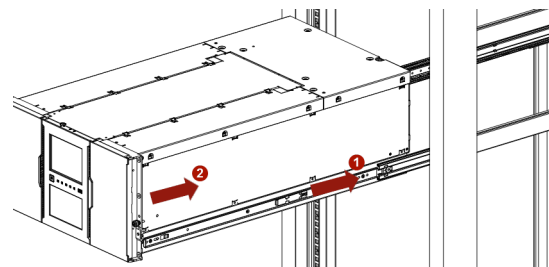
Insert the Modules in Rack

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.

- Starting at the bottom set of rails, extend the **middle rails** until they lock, moving the **sliding assembly** to the front of the middle rails.
- Using the mechanical lifter, position the **module** in front of the rack, aligned with the extended rails.
- Slide the unit onto the **middle rails** and into the rack until it stops.

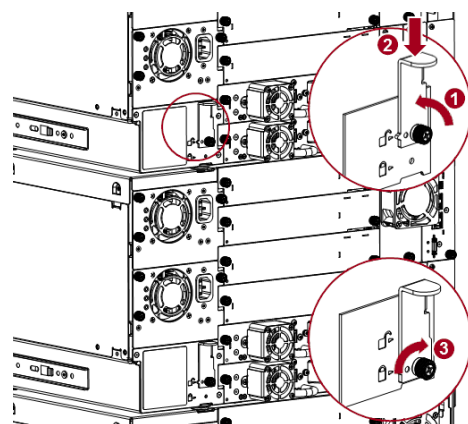


- Secure it to the rack with the **captive screws** on the front of the unit.
- Repeat [Steps 1–4](#) for the **remaining modules** in the correct order.

Aligning and Connecting Modules

Aligning the modules ensures that the robot can move freely between the modules. The library will not operate unless the alignment mechanism is in the locked position.

- From the front of the library, loosen the **thumbscrews** on each of the modules two full turns.
- From the back of the library, starting with the bottom pair of modules, align each module with the module below. Repeat for each pair of modules.



- Loosen the thumbscrew (1) on the module alignment mechanism.
 - Lower the alignment mechanism (2). If you encounter resistance, adjust the position of the upper module so the pin in the alignment mechanism moves into the hole in the lower module.
 - When the alignment mechanism is in the locked position, tighten the thumbscrew (3).
- Verify that the lowest module in the library has its alignment mechanism secured in the unlocked position with the thumbscrew.
 - From the front of the library, use your fingers to tighten the thumbscrews on each of the modules to secure the modules to the rack.

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 expansion modules accept add-on components to enhance performance:

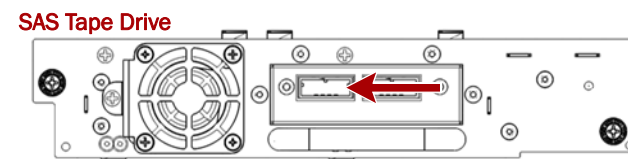
- The units come with one tape drive installed. Additional tape drives can be installed in the empty bays. Always install the drives from the bottom up.
- Additional expansion modules can be added to the stack.

Once the expansion 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.

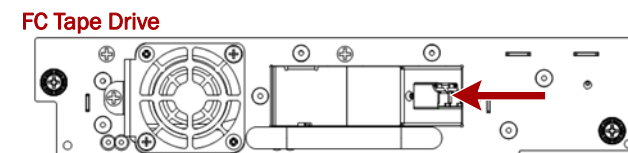
Step 5

Cable Attachment

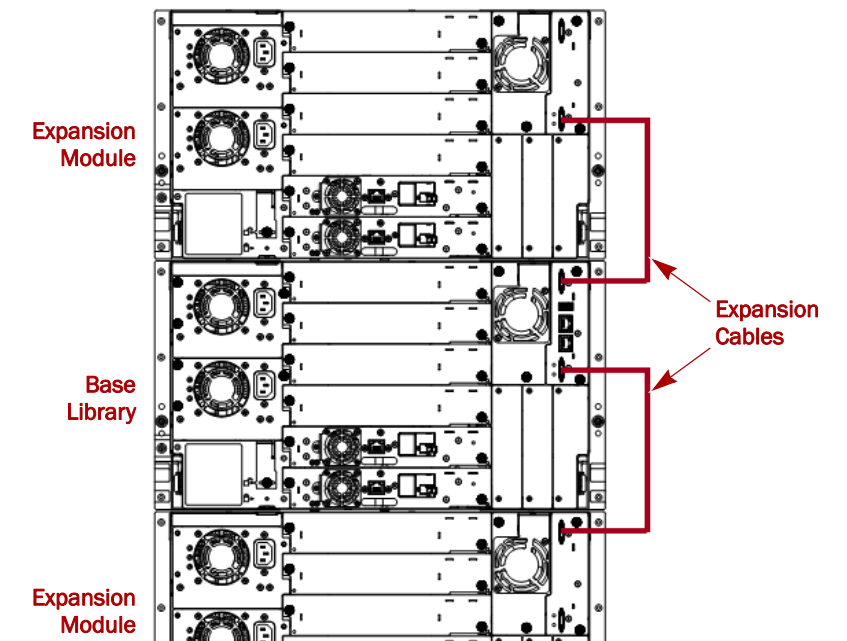
- Attach one end of the **host interface cable** to the expansion:
 - For a Serial Attached SCSI (SAS) connected expansion, attach one end of the **SAS cable** to Port A (left) SAS HBA on the SAS drive.



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



- Attach the **other end** of the host interface cable as follows:
 - For a SAS expansion, connect the **host interface cable** to the host HBA, using a direct SFF-8088 connection.
 - For a Fibre Channel expansion, connect the **fibre cable** to the host or switch.
- From the back of the library connect the lower module of each pair to its adjacent module using the expansion interconnect cable.



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

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

Step 6

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

Power On the Expansion

- Power on the expansion by pressing the **base library power button** just below the OCP; the green light will illuminate.
- Start the **Initial Configuration Wizard** from the OCP.
- Verify the **host connection**.

Step 7

User Guides

For detailed information on configuring your NEOxl 60 or NEOxl 80, refer to the *NEO XL-Series Tape Library User Guide* available online:

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

Warranty and Technical Support

For warranty and general **technical support information**:

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

For information on **contacting** Overland Technical Support:

<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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