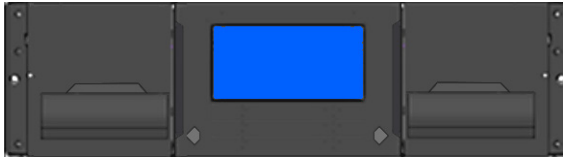


NEOxl 40 3U Expansion Module Quick Start Guide

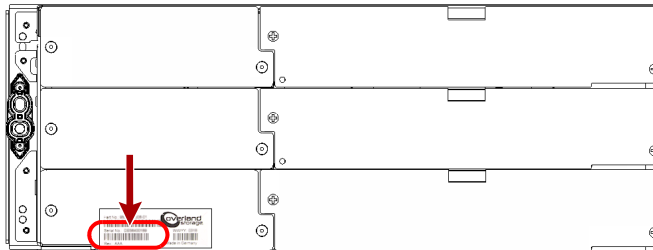


This document describes how to add an optional Expansion Module to a NEOxl 40 (3U) tape library system.

Step 1

It is **essential** that you activate your warranty. Technical and warranty support are **not available** until the warranty is active.

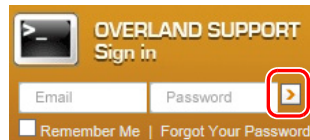
The serial number is located at the rear of the module on the bottom left cover.



Module Registration

For an **existing customer**:

1. Go to <http://support.overlandstorage.com/> support page.
2. Enter your **e-mail address** and **password** in the appropriate fields, 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**:

1. Go to the **New User Registration** page and follow the instructions.
2. You'll receive a confirmation e-mail from Overland with instructions on how to complete the 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.

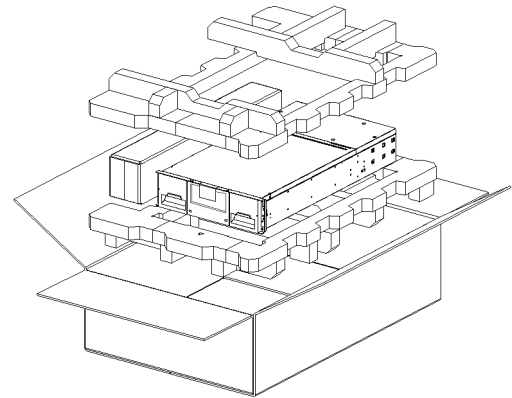
WARNUNG: Um Verletzungen zu vermeiden, empfehlen wir aufgrund des Gewichts des Moduls, dass mindestens zwei Personen das Modul aus der Verpackung heben.

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 it to acclimate to the surrounding environment for at least 12 hours before unpacking it.

Unpack the Module

1. Using two people, remove the **module** from its box and set it on a secure surface.



2. Remove and save the **packaging materials and tape** from the Expansion Module.

Installation Overview

The main steps to install an Expansion Module:

1. After determining the installation location, if necessary, transfer the library top or bottom cover to the new Expansion Module.
2. Make space in the rack and install the rack rails.
3. If applicable, install the power supplies.
4. If applicable, install the DC-DC drive power board.
5. Install the Expansion Module in the rack and align the module with the library.
6. If applicable, install the tape drives.
7. Attach the cables and cords.
8. Install the tape magazines and verify the installation.

You will need a small flat head or Torx screwdriver and a #2 Phillips screwdriver.

Step 3

Power Off Library



If still running, power off the library from the Base Module front panel by pressing and holding down the power button for three (3) seconds.

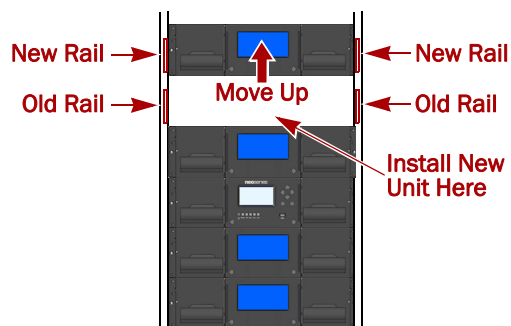
NOTE: If the library does not perform a soft shutdown, press and hold the power button for 10 seconds.

Verify that the Robotic Assembly is in its parked position and that all host processes are idle.

Determine Installation Location

If library expansion was planned for, there should be space for up to three Expansion Modules above and three Expansion Modules below the Base Module.

When Expansion Modules are already in place, to eliminate the steps needed to move covers, install the new rack rails in the space above or below a current Expansion Module. Then move the existing Expansion Module onto the new rails and install the new Expansion Module onto the old rails.



See [Chapter 1, "Supported Configurations,"](#) in the *NEOxl 40 Tape Library Administrator's Guide* for additional details.

Prepare the Modules

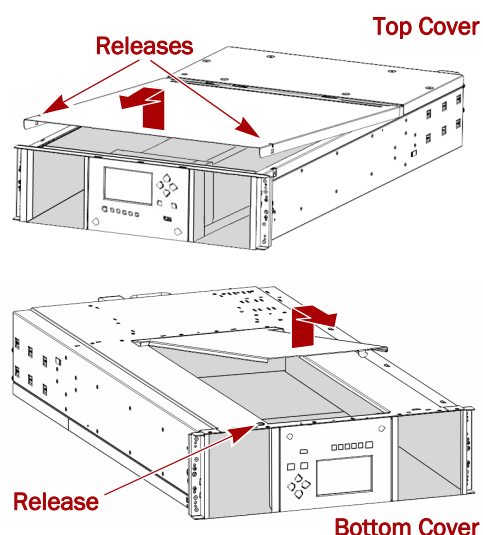
Depending on the new Expansion Module's location, transfer either the top or bottom **module cover** from the last module in that location to the new Expansion Module.

NOTE: Installing the Expansion Module between modules does not require moving a cover.

- If you are installing the Expansion Module **below** the module stack, move the bottom module's cover to the Expansion Module.
- If you are installing the Expansion Module **above** the module stack, move the top module's cover to the Expansion Module.

IMPORTANT: A NEOxl tape library modular system 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 [Chapter 1, "Supported Configurations,"](#) in the *NEOxl 40 Tape Library Administrator's Guide* for details.

1. Using the mechanical lifter, remove the **existing module** from which you are removing the cover plate.
2. Place the **removed module** on a secure work table.
If you are removing the bottom cover, gently **turn the module over** so you can access the bottom.
3. Place the new **Expansion Module** on the work table next to the module you removed.
If you are adding the bottom cover, gently **turn the Expansion Module over** so you can access the bottom.



4. Use a small flathead or Torx **screwdriver** to unlock the spring-loaded locks and release the cover.
 - **Top cover** – Push two screwdrivers down and inward about 1/4 in. (4mm) simultaneously in both release slots.
 - **Bottom cover** – Push a screwdriver down and inward about 1/4 in. (4mm) in the release slot.
5. Raise the **cover front end** by about 4-5 in. (10-12cm), gently pull it forward to disengage from the pivot point at module center, and remove.
6. At the Expansion Module, install the **cover**.
Insert the rear of the cover into the center pivot point, and then push the cover down until the spring locks engage.
7. If the **modules** are upside down, gently turn them both back over.
8. Using the mechanical lifter, reinstall the **existing module** back into the rack in its same location.

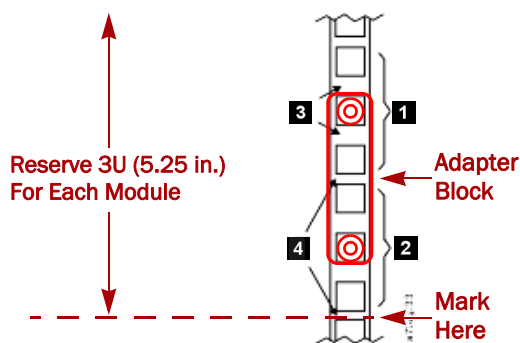
Step 4

A NEOxl 40 3U Expansion 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.

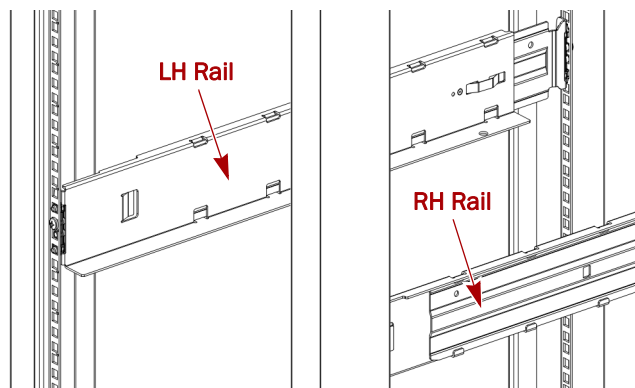
Install the Rack Rails

- 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.



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

- 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 of the reserved 3U space.



- Secure the adapters with a screw through the front into one of the middle holes.
- Mount the **rear adapters** making sure they are level with the front ones.
- Mount the **LH Rackmount rail** to the left adapter blocks with the tray flange parallel to the floor and facing inward.
- Mount the **RH Rackmount rail** to the right adapter blocks.

Step 5

Before inserting the module in the rack, install any optional components.

- 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 NEOxl 40 3U tape libraries are expandable and accept add-on components to enhance performance:

- The Expansion Module comes without tape drives. Tape drives are always installed in the module from the bottom bay up.
- Power Supply Units can be added to Expansion Module for tape drives and redundancy.

- IMPORTANT:** Follow the component instructions included with each item to be sure they are installed correctly.

Step 6

Insert the Module in the Rack

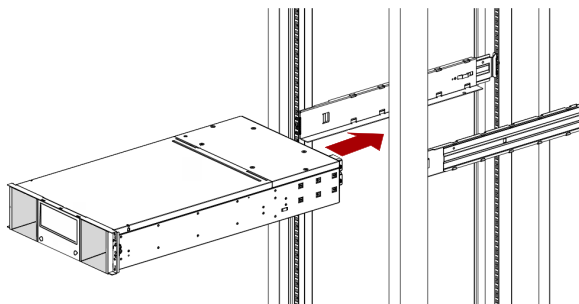
- WARNING:** To avoid injury, it is recommended that a mechanical lifter (or at least two people) be used for rack installation or removal. Use care during rack installation or removal to avoid accidentally tilting or tipping the rack, causing damage or personal injury.

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.

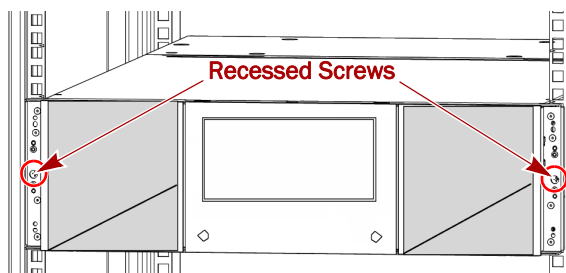
AVERTISSEMENT: Afin d'éviter des blessures pendant l'installation, il est recommandé d'utiliser un monte-charge (ou au moins deux personnes) pour élever ou aligner l'module. Faites attention lorsque vous insérez ou retirez l'module d'un support, pour empêcher le déversement accidentel de la crémaillère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

- Using the mechanical lifter, position the **Expansion Module** in front of the appropriate rack slot, aligned with the rails.

- Slide the module onto the **rail flanges** and into the rack until it stops.



- Tighten the **recessed screws** only one turn to hold it until it can be aligned with the other modules.

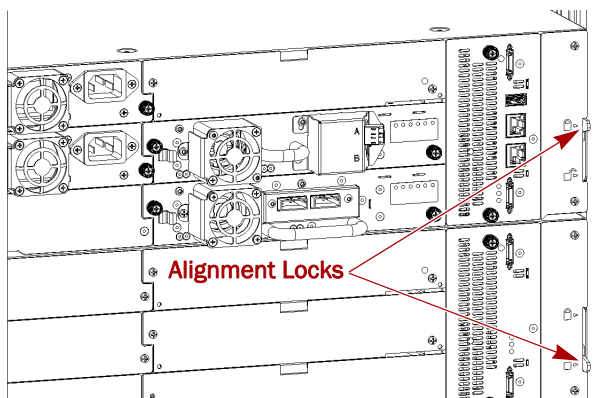


Aligning and Connecting the Module

Aligning the Expansion Module with the library ensures that the robot can move freely between the modules.

NOTE: The library will not operate unless all the alignment mechanisms (except the bottom module) are in the locked position.

- At the rear of the library, using the **alignment lock lever**, align and lock the new Expansion Module to the modules to which it connects.



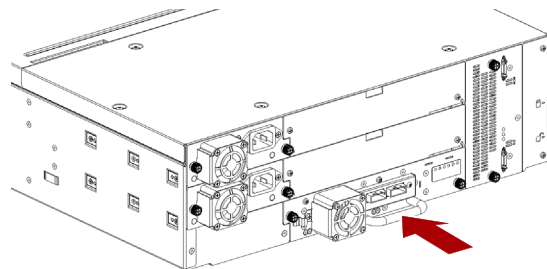
If you encounter resistance, adjust the upper module so that the alignment mechanism pin moves into the mating hole in the lower module.

- Verify that, for the **lowest** module in the library, its alignment mechanism is in the **unlocked position**.
- From the front of the library, tighten the recessed **Phillips screws** on both the Expansion Module and the adjacent modules to secure them all to the rack.

Install Optional Tape Drives

If the Expansion Module comes with any tape drives:

- At the rear of the library, remove the appropriate tape drive **covers**.
Start with the bottom bay cover and work your way up.
- Holding a **tape drive** by the handle and supporting it from the **bottom**, position it on the alignment rails.

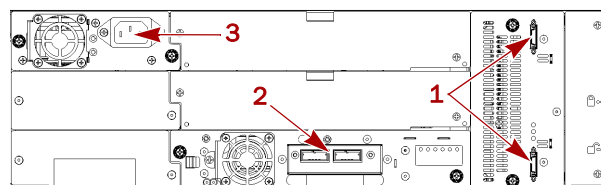


- Slowly slide the tape drive into the **drive bay** until it is flush with the back of the library.
- Finger-tighten the **blue captive thumbscrews** to secure the tape drive.
- Repeat **Steps 2–4** for any **additional tape drives**.

Step 7

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

- Connect the **expansion interconnect cables** (1) from the Expansion Module to any adjacent modules.



- If tape drives are installed, connect the **SAS/FC cables** (2) to the appropriate ports on the drives.
- If power supplies are installed, plug their **AC power cords** (3) into the power connector (2) on the Power Supply Module and the other end into power outlets.

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

Step 8

Load Tape Cartridges

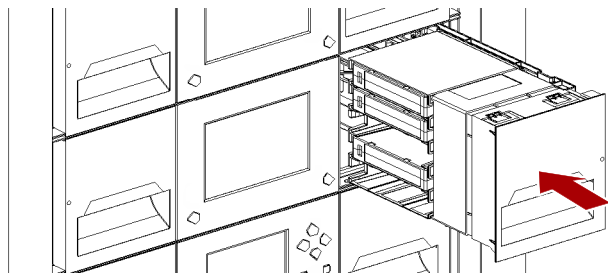
If desired, cartridges can be added to the magazines before using the Expansion Module.

- Insert a small flat head screwdriver or Torx driver into the appropriate **magazine release hole** and gently push the tab in.



IMPORTANT: Do not continue to exert force once you encounter resistance. Doing so can damage the device.

- Using the magazine **access handle** and supporting it underneath, pull the magazine out of the library and place it on a secure surface.
- Load the **cartridges** into the magazine.
- Using the magazine **access handle** and supporting it underneath, position the magazine on the alignment rails and slide the **magazine** back into the module.
- Repeat **Steps 1–4** for the **other magazine**.



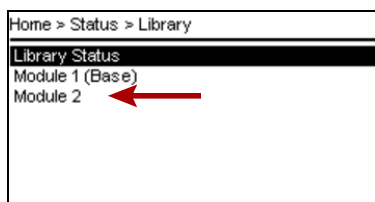
Step 9

Power on the library from the Base Module front panel by pressing and holding down the power button for three (3) seconds until the green light on the front panel illuminates indicating the status is **Ready**.

Verifying the Installation and Configuration

Check the following:

- From the OCP or RMI, verify that the new Expansion Module is visible.



- Check the library configuration settings related to the additional storage slots, mailslots, and tape drives. Update if necessary.

Step 10

Confirm Your Library Firmware Version

The Expansion Module operates using the existing library firmware. It is recommended that you always update the library to the latest firmware version:

- At the **Startup Screen**, make a note of the firmware version.
- Go to the Overland-Tandberg **Downloads and Resources** site:

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

- Under Downloads/NEO Series Firmware, click the **link** for the library.
- At the FTP site, if newer firmware is shown, download the **firmware** and **Release Notes**.
- Update the firmware using the *NEOxl 40 Tape Library Administrator's Guide*.

Confirm Your Tape Drive Firmware

Refer to the installation instructions and warnings that are packaged with your tape drive to determine if the firmware is current or needs to be updated.

If you determine that the firmware should be updated, follow the steps detailed in the included tape drive instructions.

Step 11

For further information regarding your product, check out the following links.

User Guide

For detailed information on configuring your NEOxl 40 3U, refer to the *NEOxl 40 Tape Library Administrator's Guide* **available online** under Resources at:

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

More information can be accessed from the Overland-Tandberg Knowledge Base:

<https://www.overlandtandberg.com/knowledgebase/>



Warranty/Technical Support

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

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

For information on contacting Overland-Tandberg technical support, go to:

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

