NEOxl 40 3U Tape Library Base Module Quick Start Guide
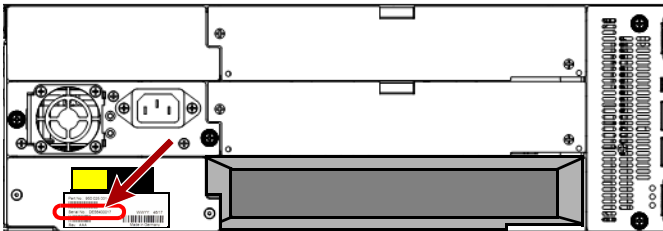

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This document describes how to install a NEOxl 40 (3U) Tape Library Base Module. Expansion Modules can be added to the Base Module to enhance the system.
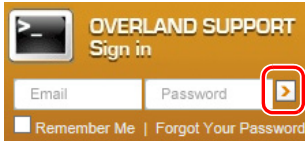
Step 1

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

The serial number used to register your Base Module is located at the bottom left of the rear panel.

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.
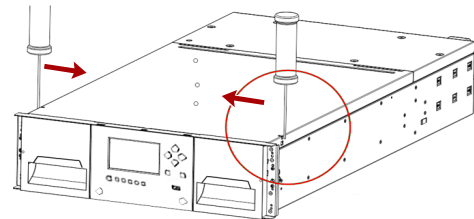
Step 2

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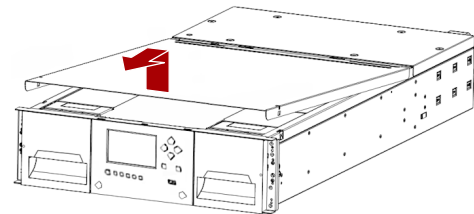
AVERTISSEMENT: En raison du poids du module, il est recommande d'utiliser deux personnes au moins pour soulever l'module hors de la boîte pour éviter les blessures.

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 and save the **packaging materials and tape** from the Base Module.
3. 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 at this time, replace the **cover**.
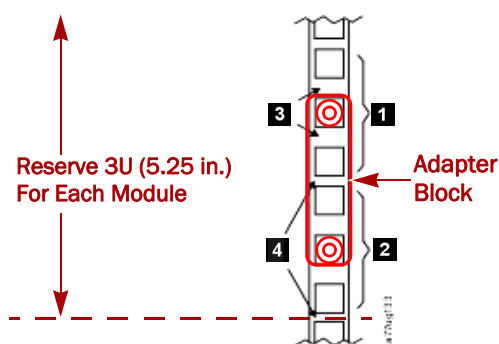
Step 3

A NEOxl 40 3U Base 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.
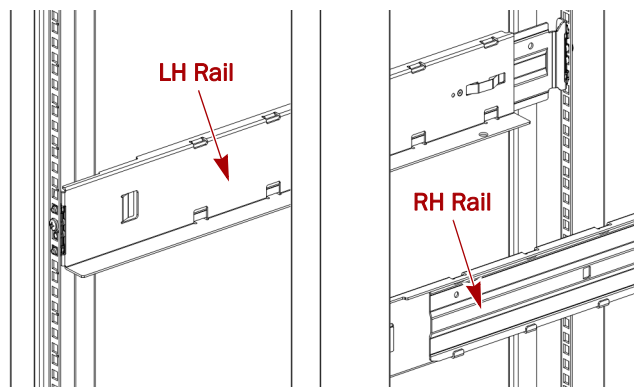
Install the Rack Rails

> **IMPORTANT:** If you plan to expand the library, install the Base Module in the middle of the planned tape library space as low in the rack as possible. There should be space for Expansion Modules above and below the Base Module. Each module requires 3U (5.25 in.) of rack space. See Chapter 1, "Supported Configurations," in the *NEOxl 40 Tape Library Administrator's Guide* for details.

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

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.

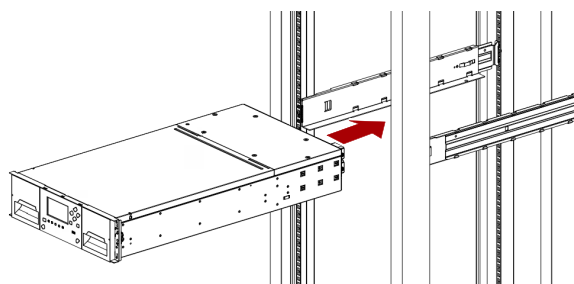6. Mount the **RH Rackmount rail** to the right adapter blocks.

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.
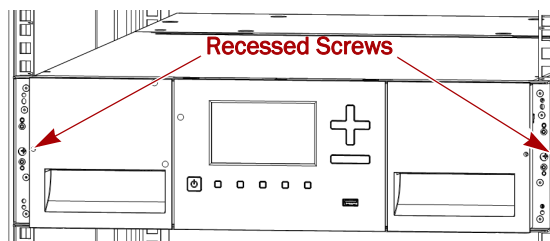>
> **WARNUNG:** Um Verletzungen zu vermeiden, empfehlen wir zur Rack-Installation oder -Deinstallation die Nutzung einer mechanischen Hebehilfe (oder mindestens zwei Personen). Seien Sie vorsichtig bei der Rack-Installation oder -Entnahme, um ein versehentliches Kippen des Racks zu vermeiden und das Rack nicht zu beschädigen bzw. sich selbst zu verletzen.
>
> **AVERTISSEMENT:** Afin d'éviter des blessures pendant l'installation, il est recommande 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 **Base Module** in front of the rack, aligned with the new 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 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 Base Module comes without tape drives. Tape drives are always installed in the module from the bottom up.
- A second Power Supply Unit can be added to Base Module for redundancy.
- Expansion Modules can be added to the library stack of modules and should be installed in the rack with the Base Module before cabling.

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

Step 5

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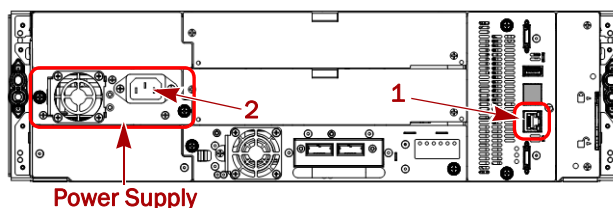
     If you are using a SAS fanout/hydra cable, attach one mini-SAS connector into the connector on each tape drive. The unused ends of the SAS fanout cable are single channel and not suitable for use with disk arrays. Use the other ends to connect tape drives, or coil and secure them to the rack to minimize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

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.
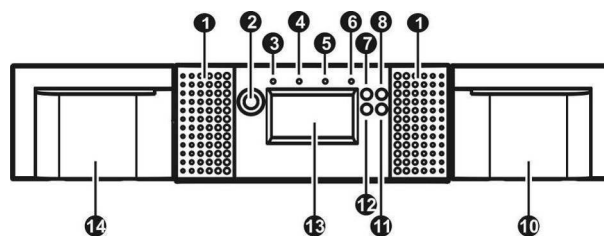

Power Supply

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 Base Module to increase the redundancy, plug each power cord into a different AC power circuit.

5. 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**.

Step 6

Operator Control Panel

The OCP is the LCD screen located on the front panel (13), and displays actions and status information, menu items, and error messages equivalent to the operation mode.

There are two modes:

- **User interaction mode** – This mode is employed when a user is pushing buttons on the OCP.
- **System driven mode** – This is the normal mode of operation where the OCP displays statuses associated with the actions resulting from commands issued from the host software application.

It is supported by four LEDs above the screen (3-6) and four buttons to the right (7, 8, 11, 12). Refer to the *NEOxl 40 Tape Library Administrator's Guide* for details.

Remote Management Interface

Many of the same operations performed locally from the OCP can also be performed remotely using the network-connected RMI interface.

The RMI hosts a dedicated, protected Internet site that displays a graphical representation of the library. After establishing a network connection to the library, open any HTML browser and enter the IP address of the library.

> *NOTE: To access the RMI, you must first set the desired static IP address for the library using the OCP or configure the library to use DHCP.*

Refer to the *NEOxl 40 Tape Library Administrator's Guide* for complete details.

Initial Configuration

When you first power on the library, some initial configuration steps are needed:

* Network configuration
* Set date and time
* Set Operator Panel PIN

Change Settings Procedure

The navigation and Enter buttons are used to make changes in the OCP screen menus.

1. To make changes, use the navigation buttons to select an **option** displayed on the OCP screen.

   A bold box shows around the selected option.

2. Press **Enter** to select the option.
   * **Text Options** – An underscore (_) appears under the first character (or space).
   * **List Options** – A drop-down list is shown for a list specific selections.

3. Create or change the **setting**.
   * **Text Options** – Use **Left/Right** to select a text character and **Up/Down** to choose the replacement character (a-z, A-Z, 0-9, period [.] or hyphen [-]). Use **Up** to go forward in the list and **Down** to go back. Press and hold **Up/Down** to skip four characters at a time.
   * **List Options** – Use **Up/Down** to choose an item from the list.

4. Press **Enter** to accept the change and return to the selection process.

   To cancel a change, navigate to the end of the options and select **Cancel**.

Initial System Setup

1. After POST is done, if you get an **IP address conflict** message, select a range from the drop-down list.

   The library will reboot when you **Submit** your choice.

2. Depending if a **DHCP server** is available:

* If **available**, an IP address is automatically assigned. Continue with RMI Settings.
* If **not available**, a static IP address must be configured.

3. Configure a **static** IP address:

   a. Log into the **OCP** from the screen shown.

   Select **administrator** from the drop-down list and use the default PIN "**0000**".

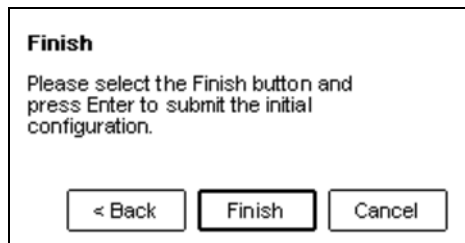   b. At the Initial Configuration wizard screen, click **Next**.

   c. At the Network Configuration screen, enter your settings.

   See Change Settings Procedure for the process.

4. When finished with the network settings, select **Next >** and press **Enter** to continue with Date/Time Configuration.

5. When finished with the date and time settings, select **Next >** and press **Enter** to continue with the **Operator Panel PIN** setting.

6. When finished with the PIN change, select **Next >** and press **Enter** to switch to the Finish screen.

Finish

Please select the Finish button and press Enter to submit the initial configuration.

| < Back | Finish | Cancel |

7. To keep the settings, select the **Finish** option and press **Enter**.

   Press **Cancel** to skip the configuration and leave the wizard without any changes. Press **< Back** to correct your changes before they are submitted.

RMI Settings

Once the Initial Configuration wizard is complete, initiate the partition wizard from the RMI.

1. Log into the **RMI** using the default User name "**administrator**" and default password "**adm001**".

2. At the empty list, click **Proceed** and then click **Next** twice to select and use the default setting.

3. Click **Finish**.

Refer to the *NEOxl 40 Tape Library Administrator's Guide* for details.

Step 7

Confirm Your Library Firmware Version

Before using your new library, it is highly recommended that you verify it is running the latest library firmware version:

1. At the **Startup Screen**, make a note of the firmware version.

2. Go to the Overland-Tandberg **Downloads and Resources** site:

   http://docs.overlandstorage.com/neo

3. Under Downloads/NEO Series Firmware, click the **link** for the library.

4. At the FTP site, if newer, download the **firmware** and **Release Notes**.

5. 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 needs to be updated, follow the steps detailed in the included tape drive instructions.

Step 8

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