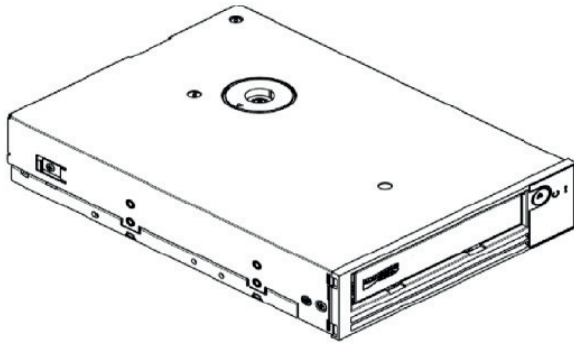**OVERLAND TANDBERG**

Quick Start Guide

LTO Internal Standalone Tape Drive
Important LTO-9 Information Below

This document describes how to setup and install an internal LTO standalone tape drive from Overland-Tandberg.

⚠️ **CAUTION:**
While working with the unit, observe standard Electrostatic Discharge (ESD) precautions to prevent damage to micro-circuitry or static-sensitive devices.

NOTE: Before continuing, verify you are able to connect to the host SAS controller via an installed host bus adapter (HBA) and have the correct cable (available separately) to attach the tape drive to it.

Step 1

Register the Unit

It is **essential** that you activate your warranty before proceeding as technical and warranty support is **not available** until your product is registered.

1. Go to the Overland-Tandberg support page: https://www.overlandtandberg.com/service-support/customer-self-service-portal/
2. Select the Register a Product option.
3. Fill in the information (including the serial number) and click Submit.
   Your warranty certificate will be emailed to you. Follow the email instructions to complete the process.

Step 2

Install an HBA Card

NOTE: Be sure that the HBA card is the same interface type as your LTO drive.

If you do not already have a HBA card installed that matches your type of drive (SAS or FC), you must install one before proceeding. You need a spare PCI slot for the new HBA card.

Follow the installation instructions that came with your HBA card to install it in your system.
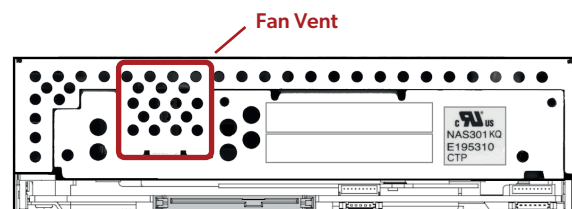
Step 3

Install the LTO Tape Drive

NOTE: The following illustration shows one method of mounting hardware; it doesn't apply to all servers. Please refer to your server documentation.
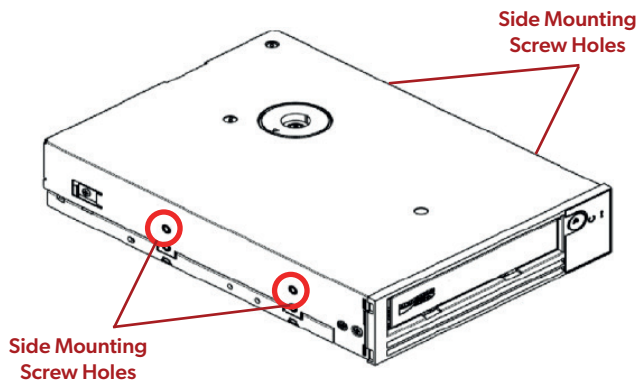
1. Slide the LTO tape drive into an empty drive bay.

ℹ️ **IMPORTANT:**
When installing the drive, it is essential to ensure that there is **sufficient airflow** to prevent the drive from overheating.
Do not cover the **fan vent**.

Fan Vent

NAS301KQ
E195310
CTP

ℹ️ **IMPORTANT:**
If cable access for the tape drive bay is awkward, it may be easier to access power and other connections if the tape drive is installed in the top bay. To do so, you may need to move other devices to lower drive bays.
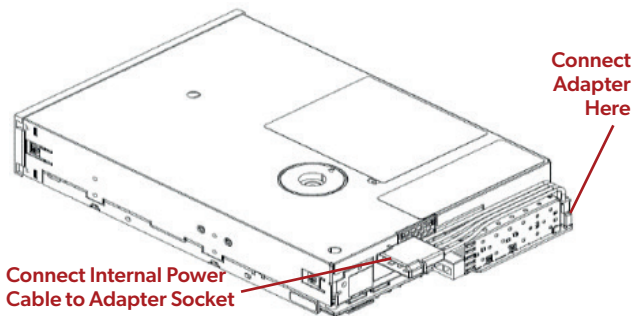
Side Mounting Screw Holes

Side Mounting Screw Holes

2. Use the supplied 3mm screws in the holes (sides or bottom) to secure the drive.

> ⚠️ **CAUTION:**
>
> If the enclosure requires longer screws, be sure they do not penetrate more than 2.5mm from outside the drive to prevent damage to the drive.
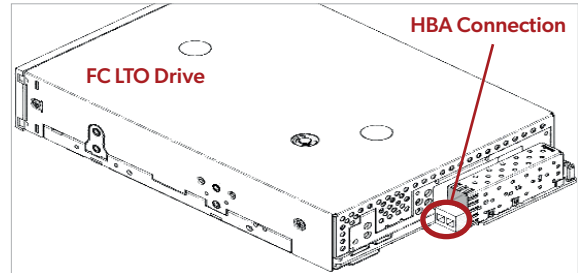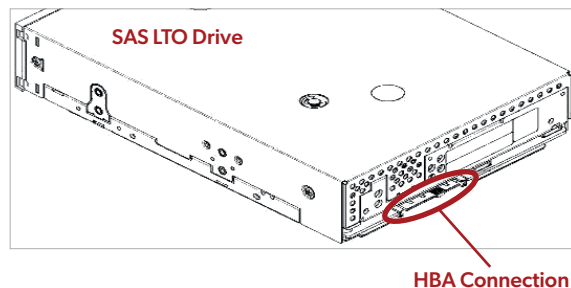
3. For an FC drive, attach the supplied **Power Connector Adapter** between the internal power supply and drive.

Connect Adapter Here

Connect Internal Power Cable to Adapter Socket

4. For a SAS drive, connect the power cable of the SAS adapter to the PSU of the server.

Connect Internal Power Cable to Server PSU

5. Connect the **HBA** card to the rear of the LTO drive.

SAS LTO Drive

HBA Connection

FC LTO Drive

HBA Connection

6. Power up the **server**.
   Watch the boot screen carefully to verify that the new LTO tape drive is listed in the boot sequence.

   NOTE: The module needs to be supported while you remove the bottom cover.

7. If required, install Windows **drivers**.
   For Windows systems, download the latest drivers from the *Overland-Tandberg Drivers and Downloads website*.

   NOTE: For other operating systems, patch the latest version of the operating system, following the instructions in the patch documentation.

8. Upgrade your **backup software**.
   Always upgrade your backup software to ensure it works correctly with the tape drive.
   Some backup applications require you to use their own drivers. Refer to the documentation of your software application to ensure you are using the recommended driver.

> ℹ️ **IMPORTANT:**
>
> Overland-Tandberg does NOT recommend native backup applications, such as Windows Backup, because they do not support the full features of the tape drive and may cause performance problems.

Step 4

Verify Firmware & Drivers

Check online for the latest versions of the LTO firmware and drivers for the Overland-Tandberg LTO Internal Tape Drive:

https://ftp.overlandtandberg.com/Firmware/Tape_Drives/

If needed, the tape drive diagnostic tool with instructions is also available at the same site.

We also recommend upgrading your backup software application to ensure it works correctly with your tape drive.

Step 5

Ordering Media

Overland-Tandberg LTO internal tape drives utilize Ultrium LTO data cartridges, as well as LTO cleaning cartridges. Used in the design, test, and manufacture of your drive, Overland-Tandberg LTO media provides superior data availability.

Contact your Overland-Tandberg sales representative to place your order for the desired media types and quantities.

For the most current information, refer to the Overland-Tandberg price list.

For detailed information on media care and best practice and to order online, refer to the Overland-Tandberg Media website:

https://www.overlandtandberg.com/products/neo-tape/lto-media/

Step 6

Further Information

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

User Guides

An electronic version of this Quick Start Guide along with additional information is also available online at our Knowledge Base:

https://www.overlandtandberg.com/knowledgebase

Warranty/Technical Support

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

https://www.overlandtandberg.com/contact-us/

For information on contacting Overland-Tandberg Service and Support:

https://www.overlandtandberg.com/service-support/contact-service-support

ℹ️ Initializing LTO-9 Tapes

New LTO-9 cartridges need to be initialized before they can be used because the increased number of tracks requires greater precision. Media optimization creates a referenced calibration for each cartridge that enables the tape drive's intelligent alignment to optimize data placement. LTO-9 media optimization enhances LTO tape long-term media durability.

Media optimization is performed on first load of LTO-9 media during initialization.

Media optimization is a one-time operation that can be completed on any drive in the environment, enabling the media to be used across all tape drives without further optimization.

During cartridge initialization, the Single Character display will show a lowercase "c" (calibrating).

Media optimization averages 40 minutes per first load of a cartridge to a tape drive.

> ⚠️ **CAUTION:**
> Although most media optimizations will complete within 60 minutes, some media optimizations may take up to 2 hours. Interruption of the process is not recommended.