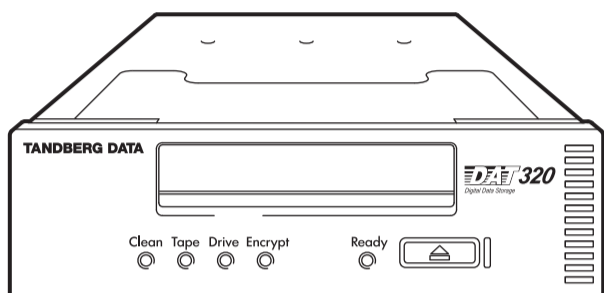


Tandberg Data DAT320 USB  
 Internal Tape Drives

# QUICK START



## 1 Introduction

This poster describes how to install your Tandberg Data DAT320 tape drive.

- Use the fixing screws supplied with the tape drive
- Always connect to a USB 2.0 port (on a computer running Windows or Linux).
- Use the correct driver.



**WARNING:** To avoid personal injury or damage to the server or tape drive, disconnect your server from the mains power supply before installing the tape drive.

To avoid damage to server or tape drive observe all recommended anti-static and power-grounding precautions, as specified in your server and tape drive manuals.

## 2 Other sources of information

There is a more detailed "User Guide" on [www.tandbergdata.com](http://www.tandbergdata.com).

If you need technical support or have any problem with your DAT320 tape storage solution, please visit the support pages at [www.tandbergdata.com](http://www.tandbergdata.com).

## 3 Preparing the host



**IMPORTANT:** Refer to [www.tandbergdata.com](http://www.tandbergdata.com) for detailed compatibility information about operating systems and software applications.

### USB cable and port

A standard USB cable is supplied with the tape drive for connection to an internal USB port. You must connect to a dedicated USB 2.0 port on your computer. USB 1.1 will severely degrade performance. If your server does not have an internal USB port, you must purchase and install a separate USB HBA with an internal port before you install the tape drive.

### Drivers

For Windows systems, download the latest drivers from [www.tandbergdata.com](http://www.tandbergdata.com). For other operating systems, patch to the latest version of the operating system, following the instructions in the patch documentation.

### Backup software

Always **upgrade** your software application to ensure it works correctly with the tape drive. We do **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.



**NOTE:** 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.

### Hardware encryption

The DAT320 tape drive includes hardware capable of supporting data encryption. To make use of this feature you need a backup application that supports hardware encryption and DAT320 media.

### Power requirements

Voltage	Typical Current	Maximum Current
5 V	0.7 A	1.4 A
12 V	0.25 A	1.3 A

### Mounting bay

You need one industry-standard, 5 1/4-inch, half-height bay in which to install the Tandberg Data DAT320 tape drive.

Different models of server require different mounting methods. Refer to your server documentation for detailed information. You may need to purchase mounting hardware separately.



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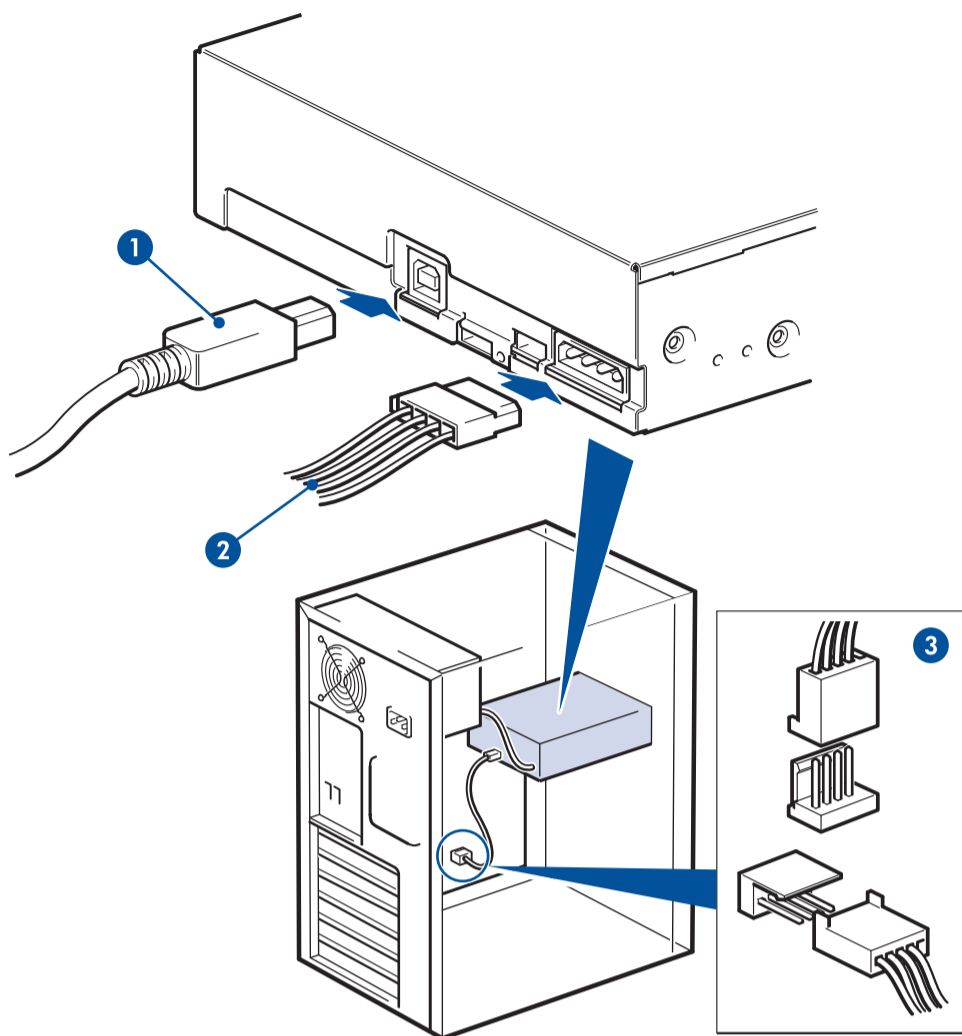
[www.tandbergdata.com](http://www.tandbergdata.com)

Part No. 1018929



## 4 Connecting the tape drive

**CAUTION:** Turn off and remove the power cords from the server and all attached accessories.



1 USB cable to tape drive    2 Power cable    3 USB cable to server

### USB cable

Use the supplied USB cable (1) and connect to an internal USB 2.0 port.

### Power cable

Attach a spare power cable (2) from the server's internal power supply to the power connector-.

## 5 Power on the tape drive and verify connection

- Plug in the host server or workstation and all attached devices.
- Turn on any other devices you turned off earlier. Turn on the server.
- Check the LEDs on the front panel to make sure the tape drive is ready for use (See section 7: Understanding the LEDs).
- Verify the connection.

## 6 Choosing and looking after media

Your high-performance tape drive works best with high-performance Tandberg Data DAT media. For optimum performance always use a data cartridge that matches the specification of your tape drive (see table) and normally only use one cartridge per day.

**NOTE:** The DAT320 tape drive is not compatible with 4mm media. It may only be used with 8mm media.

**Table: Tandberg Data DAT data cartridge compatibility**

	DAT72 & All DDS	DAT160	DAT320
Tandberg Data DAT320	Not Supported	Read/Write	Read/Write (Recommended)

\* Capacity assumes 2:1 compression.

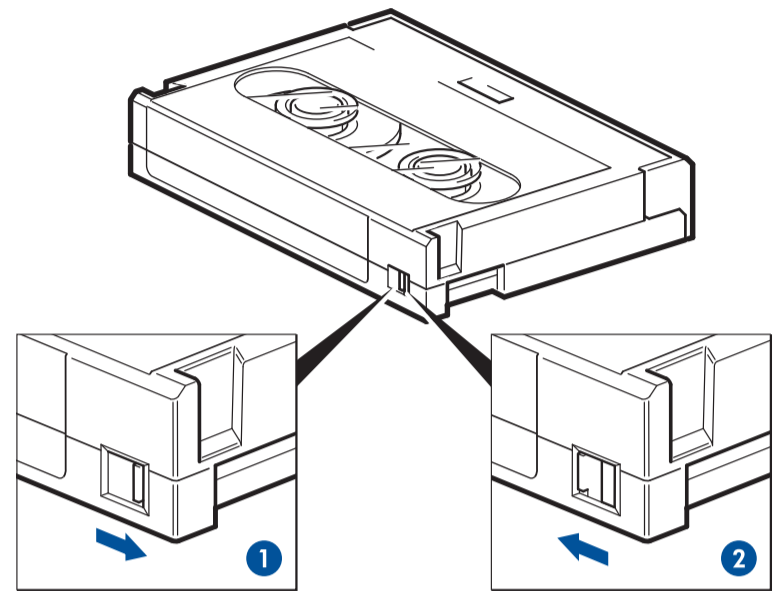
The recommended cleaning cartridge is the Tandberg Data DAT320 cleaning cartridge for DAT320 tape drives. Only use the cleaning cartridge if the Clean LED is flashing.

## It pays to look after your media

Many tape drive and backup failures are caused by damaged or badly handled tape media.

- Keep media in the case provided.
- Follow the temperature, humidity and acclimitization guidelines on the media packaging.
- Avoid dropping it or rough handling, as this is likely to damage the cartridge.
- Inspect it regularly for damage.
- Do not exceed normal cartridge life.

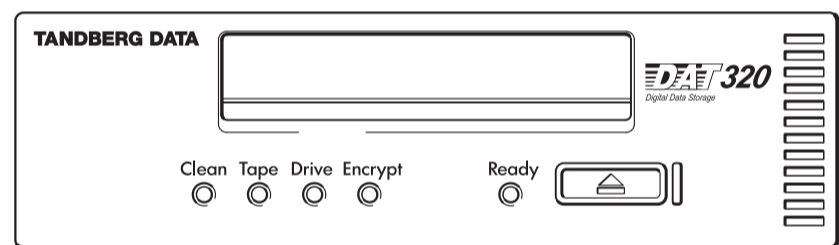
For detailed information on media care and best handling please visit [www.tandbergdata.com](http://www.tandbergdata.com).



1 Write-protect switch off    2 Write-protect switch on

## 7 Understanding the LEDs

### DAT320



#### Clean – amber

- Off: the drive does not require cleaning
- Flashing: the drive needs cleaning
- Flashing (with Ready flashing): Cleaning is in progress

#### Tape – amber

- Off: no fault has been detected
- Flashing: the drive believes the current tape or the tape just ejected is faulty (damaged or unsupported)
- Flashing (with Ready and Clean flashing): the cleaning cartridge has expired, The drive ejects it automatically

#### Drive – amber

- Off: no fault has been detected
- Flashing: the drive mechanism has detected a hardware error

#### Encrypt – blue

- Off: no encryption activity, encryption parameters are not loaded
- On: encryption parameters loaded, drive is ready to read/write encrypted data
- Flashing blue (with Ready flashing): Reading/writing encrypted data
- Solid blue (with Ready flashing): Encryption parameters loaded, but drive is reading/writing unencrypted data. This is the normal Ready LED operation
- Fast flash (with Drive LED): encryption related error

#### Ready – green

- On: the drive is ready for use and there is a cartridge in the drive
- Off: there is no cartridge in the drive. If the Ready LED remains off when a cartridge is loaded, the drive power may be off or there may have been a failure during self-test
- Flashing: the drive is busy