see the world

USB-C PCIe NVMe Dual SSD Enclosure

Model: RapidFire-U2DA

@WavlinkOfficial

@WavlinkTechSupport

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About This Guide

This guide serves as a companion to the Quick Installation Guide for your wired USB product. The Quick Installation Guide provides essential steps for immediate setup, while this document offers detailed explanations of product features and advanced configuration options.

Please note that product functionality may vary slightly depending on your specific model, software version, geographic region, language, and connected devices. Screenshots, parameters, and descriptions in this guide are for illustrative purposes only.

Conventions

In this guide the following conventions are used :

Convention	Description
Underlined	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	The content and text that needs to be emphasized on the web page is the theme color `#1D428A` , including menus, items, buttons, etc.
Note:	Critical reminders to prevent operational errors or functionality issues.
Tips:	Best practices or optimization suggestions for enhanced performance.

More Info

The latest driver, firmware and utilities are available from the Download Center at **WAVLINK SUPPORT** .

Included in your product packaging or available digitally via the link above.

If you encounter any issues, please don’t hesitate to email **contact@wavlink.com** /**techsupport@wavlink.com** / **postsales@wavlink.com** to provide feedbacks or contact online customer service, thank you !

Performance Disclaimer

The maximum transfer speeds stated for this product are based on theoretical limits of USB specifications (e.g., USB 2.0/3.0/3.1 Gen 1/Gen 2). Actual performance may vary due to:

Device limitations: Host system performance, driver compatibility, and connected device capabilities.

Environmental factors: USB cable quality, length, electromagnetic interference, and port power delivery.

Network/software conditions: Operating system overhead, background processes, and concurrent data transfers.

Wired connections are generally more stable than wireless alternatives, but performance is not guaranteed and depends on the factors listed above.

Information in this document is subject to change without notice.The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage,including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully.

Keep this Quick Start Guide for future reference.

Keep this equipment away from humidity.

If any of the following situation arises, get the equipment checked by a service technician:

The equipment has been exposed to moisture.

The equipment has been dropped and damaged.

The equipment has an obvious sign of breakage.

The equipment has not been working well or you cannot get it work according to Quick start Guide.

Copyright Statement

No part of this publication may be reproduced in any form by any means without the prior written permission.

Other trademarks or brand names mentioned herein are trademarks or registered trademarks of their respective companies.

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.



Chapter 1 Basic Information

It contains the following sections :

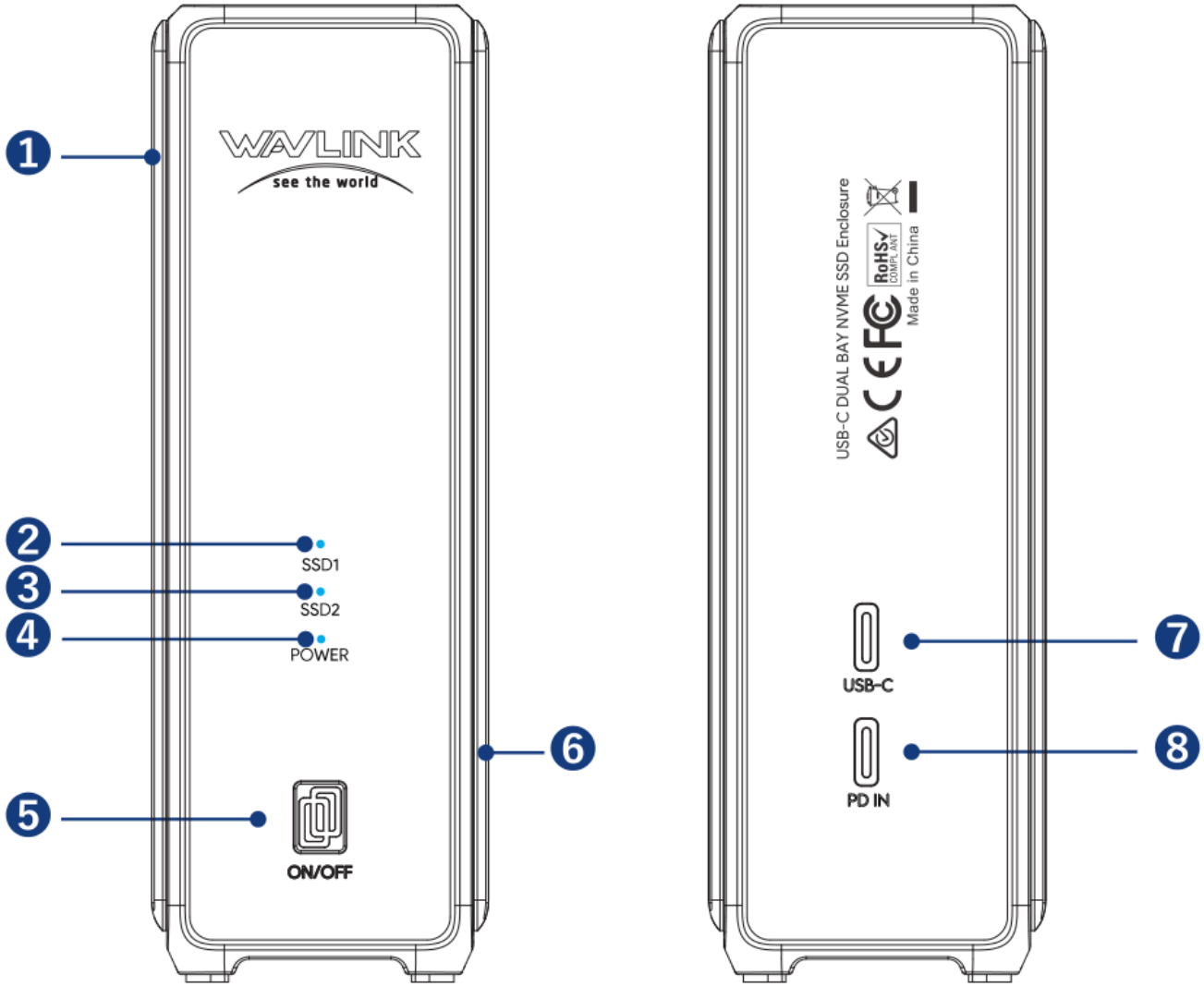
•In the Box

•Overview

In the Box

- 1 x USB-C 20Gbps Dual-Bay PCIe NVMe SSD Enclosure
- 1 x USB-C to USB-C with USB-A cable
- 1 x USB-C to USB-C Charge Cable
- 2 x Thumb Screw (SSD fasteners)
- 1 x PD Power Adapter
- 1 x Quick Start Guide

Overview



① SSD1 M.2 slot

② SSD1 Indicator

③ SSD2 Indicator

④ Power Indicator

⑤ Power Button

⑥ SSD2 M.2 Slot

⑦ USB-C

⑧ PD-IN

Chapter 2 Installation and Connection

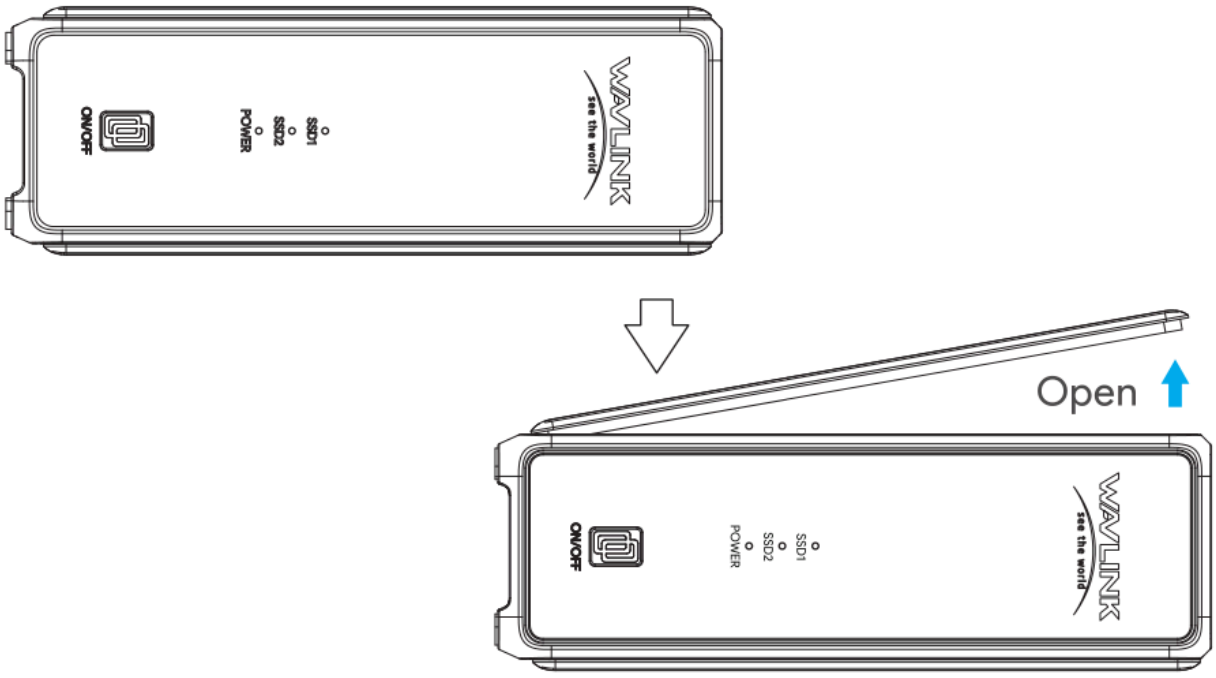
It contains the following sections :

•SSD Installation and Connection

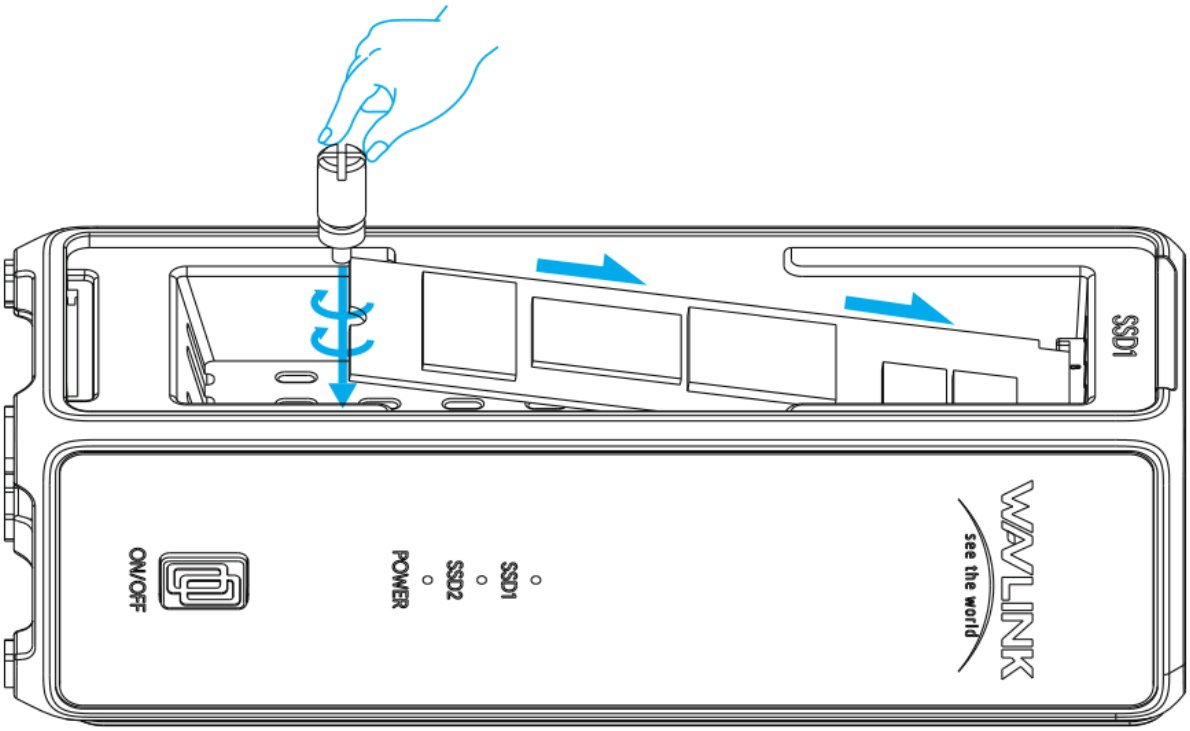
SSD Installation and Connection

Attention: To make the SSD operate smoothly and successfully, you need to select the compatible type of SSD first, it is compatible with NVMe SSD in sizes: 2280/2260/2242/2230, and only compatible with M-Key, M&B -Key connectors.

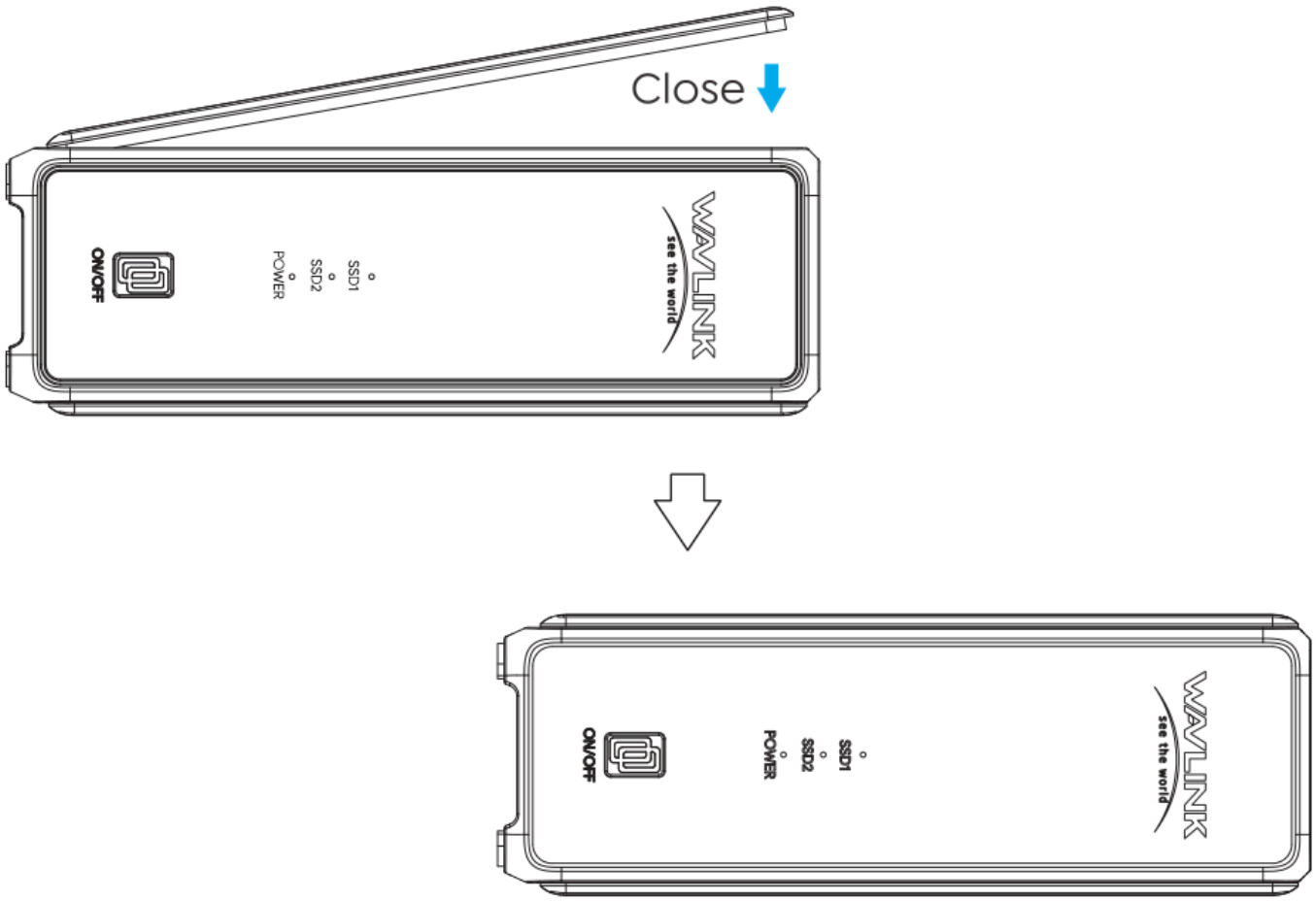
1. Open the device’s left and right covers from the top’s depression.



2. Insert your SSD into the slot.



3. The device’s left and right covers can be magnetized back into place.



4. Connect the adapter to the enclosure "PD IN" port using a USB-C to USB-C PD charge cable. Then connect your laptop to the enclosure's "USB-C" port using a USB-C to USB-C with USB-A cable.

Chapter 3 Partition and Format and Raid Setting

It contains the following sections :

•Partition and Format

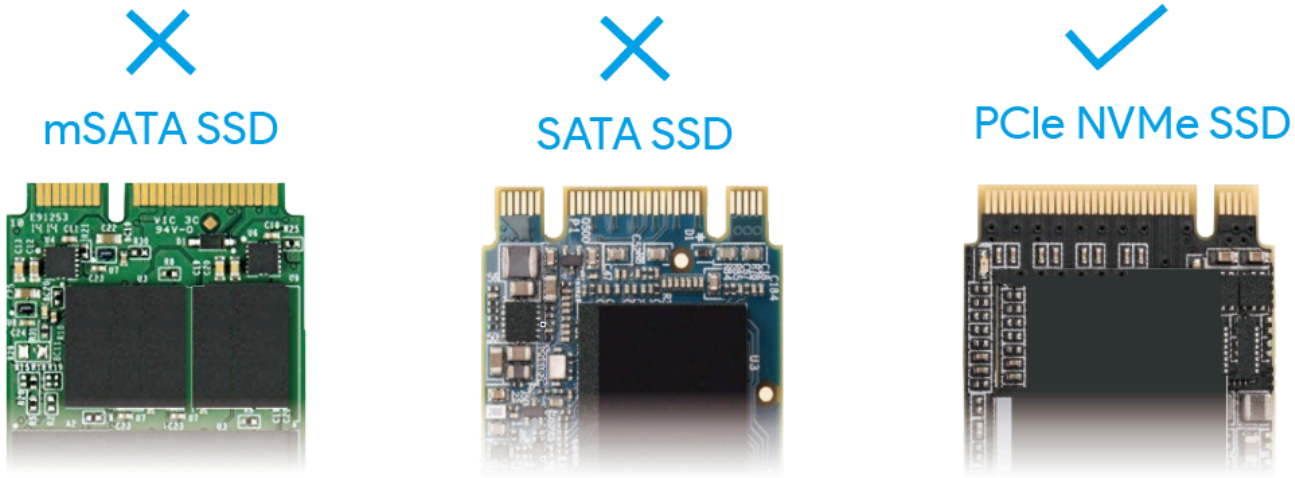
•Raid Setting

Partition and Format

Note: If the SSD is brand-new and unformatted, please perform partition installation so that the computer can read the data normally; If the SSD is formatted and has stored data, you have no need to perform partition installation because the computer can read the data normally.

Choose the right SSD

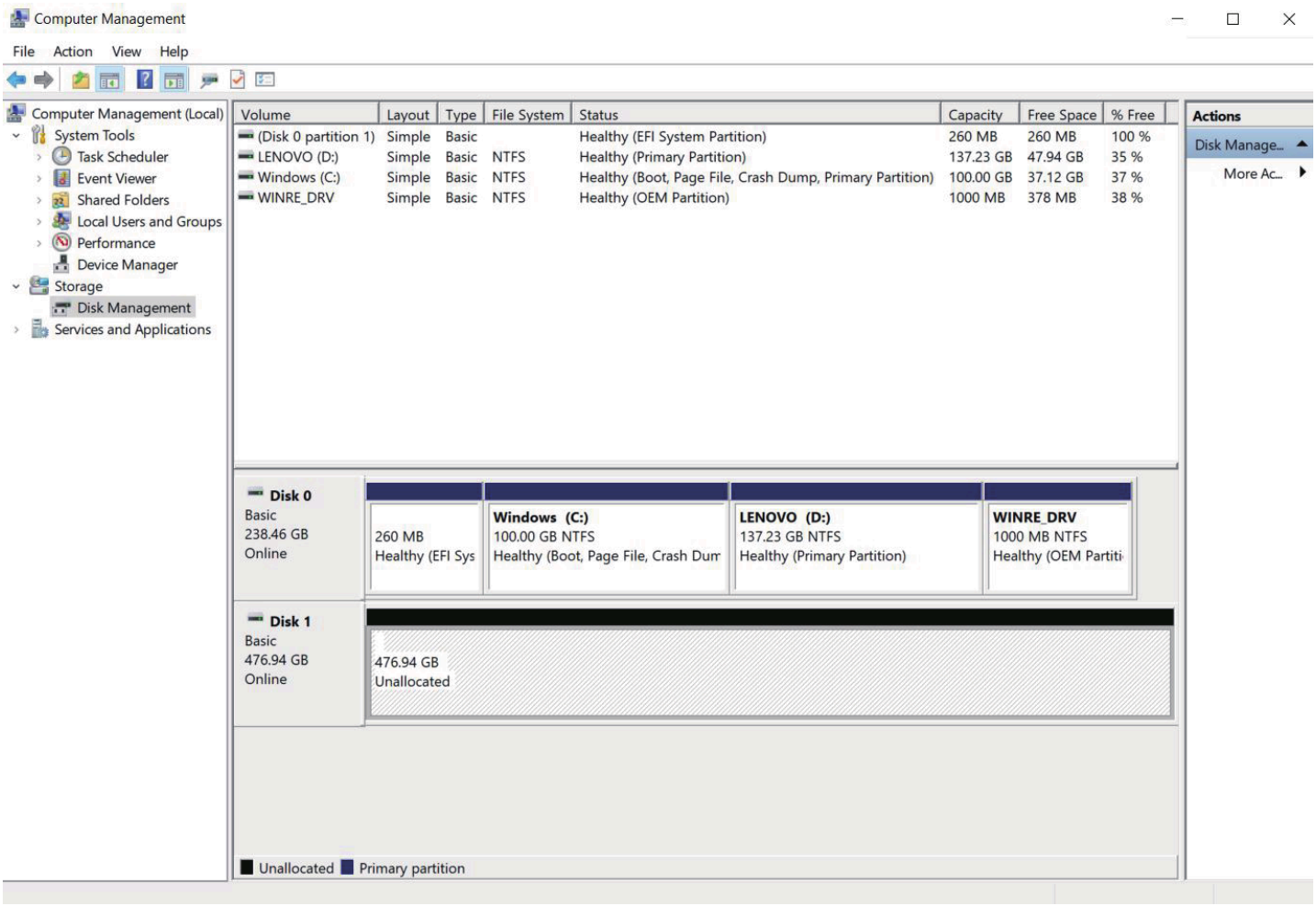
To make the enclosure operate smoothly and successfully, you need to select the correct type of SSD first, Thunderdrive is compatible with PCIe NVMe SSD, to have a close look at the edges of different SSD, please refer to the pictures as follows:



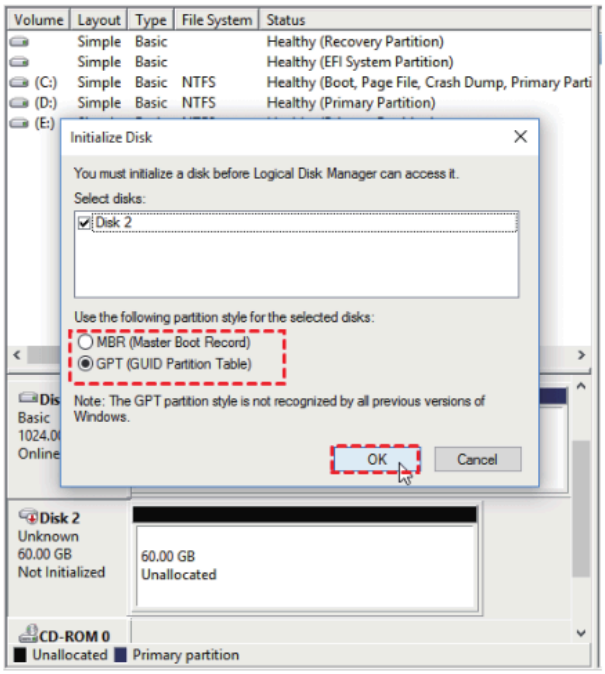
NVMe SSD on Windows and Mac System Installation New SSD creates partition and format installation on Windows and Mac OS.

For Windows

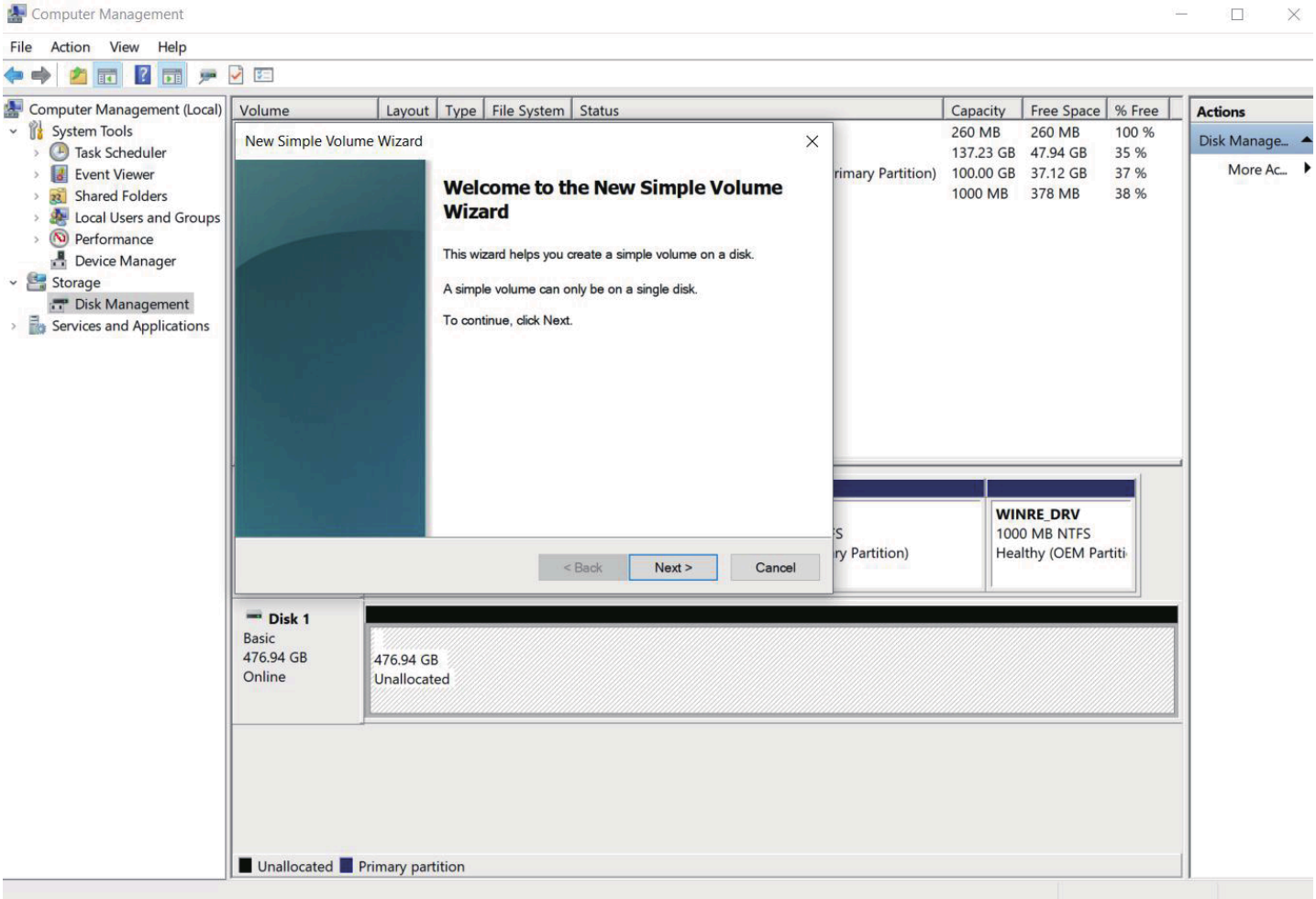
1. Right click your PC icon and select "**Manage**".



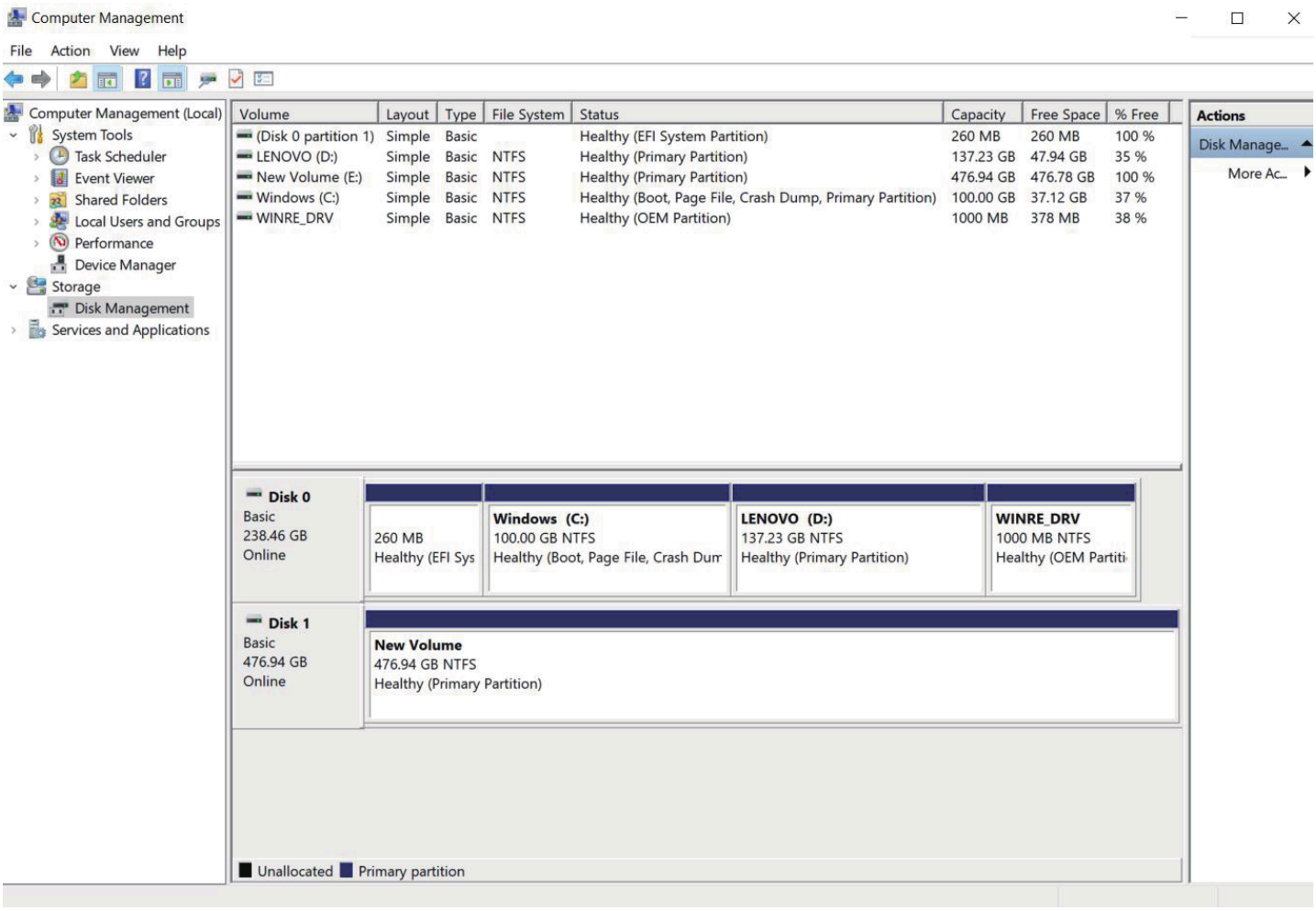
2. Choose "**Storage**" then go to "**Disk Management**", select the Partition Style for the disk, generally choose "**GPT**", and click "**OK**".



3. Right click your SSD, choose "**New Simple Volume**" and select "**Next**" to proceed.

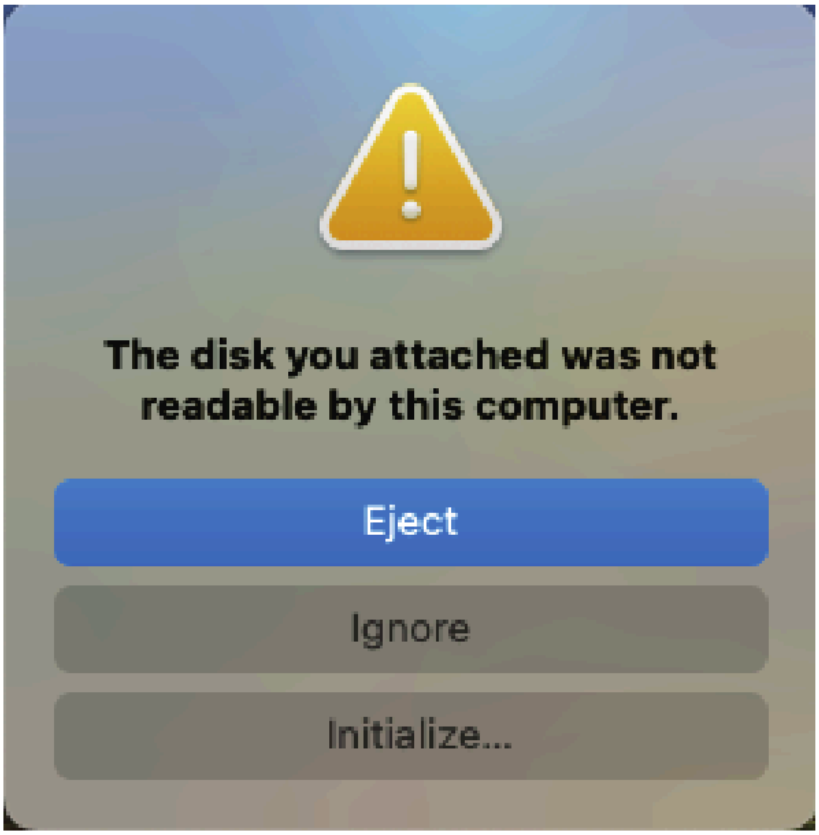


4. Follow the instruction step by step to complete format installation.

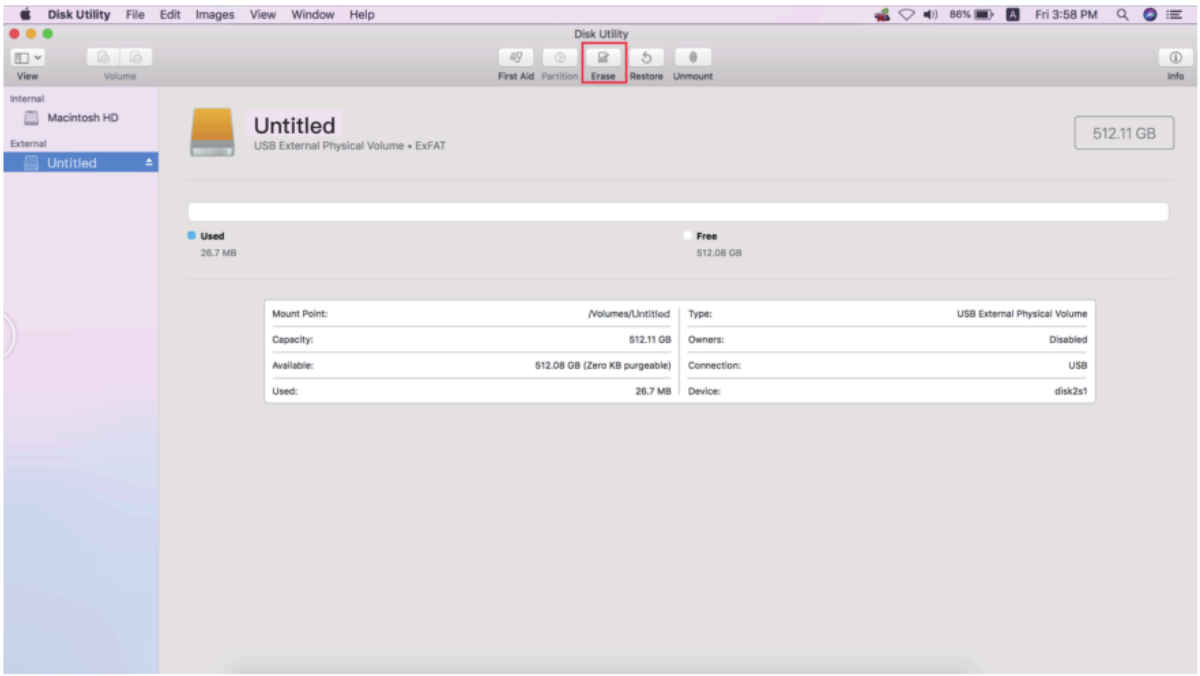


For Mac

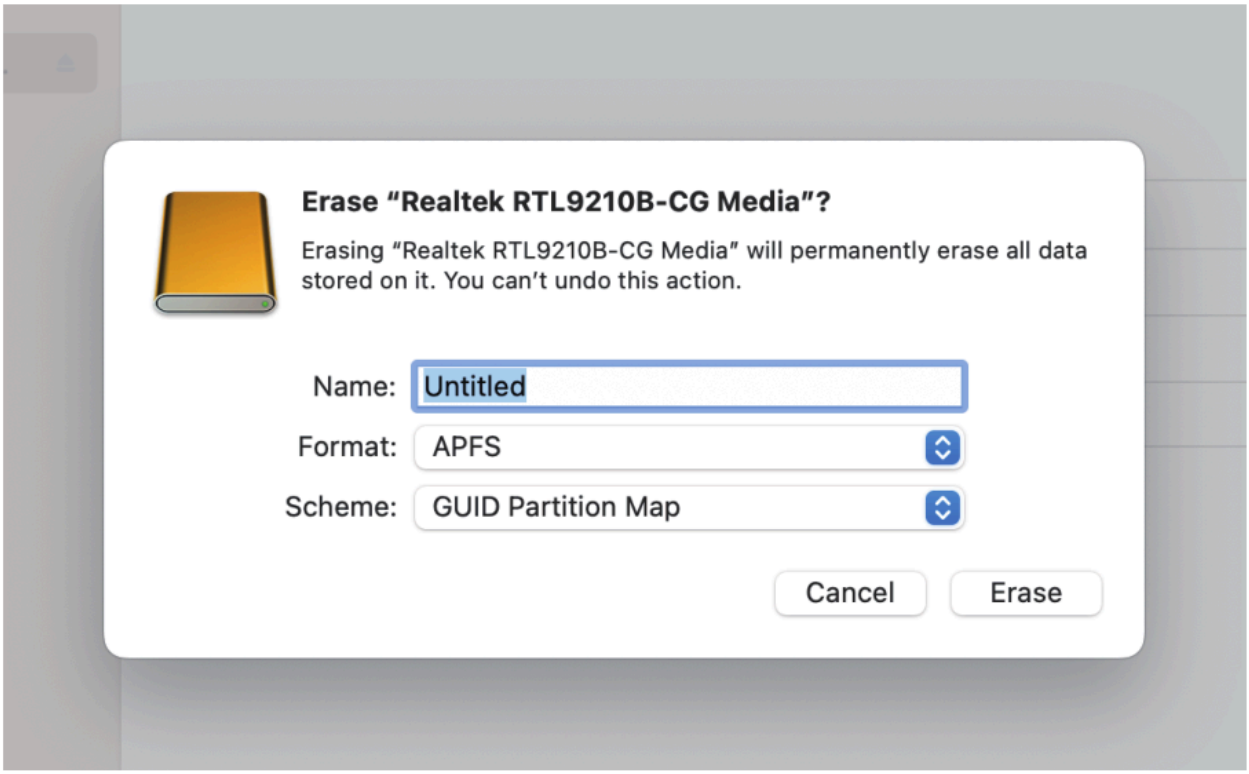
1. Connect the Portable SSD to your computer, and select "**Initialize**" from the pop-up window.



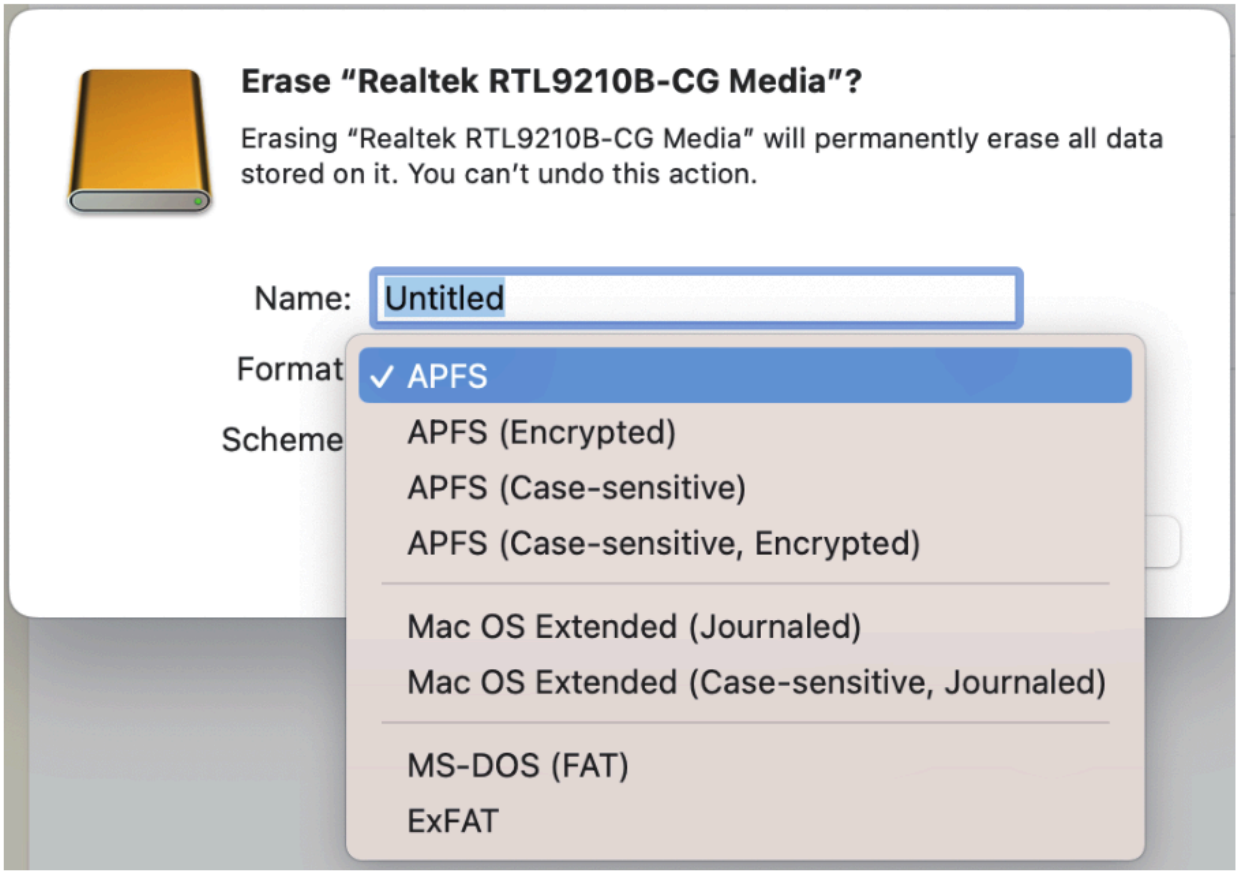
2. Select external disk from the left navigation bar, then select "**Erase**".



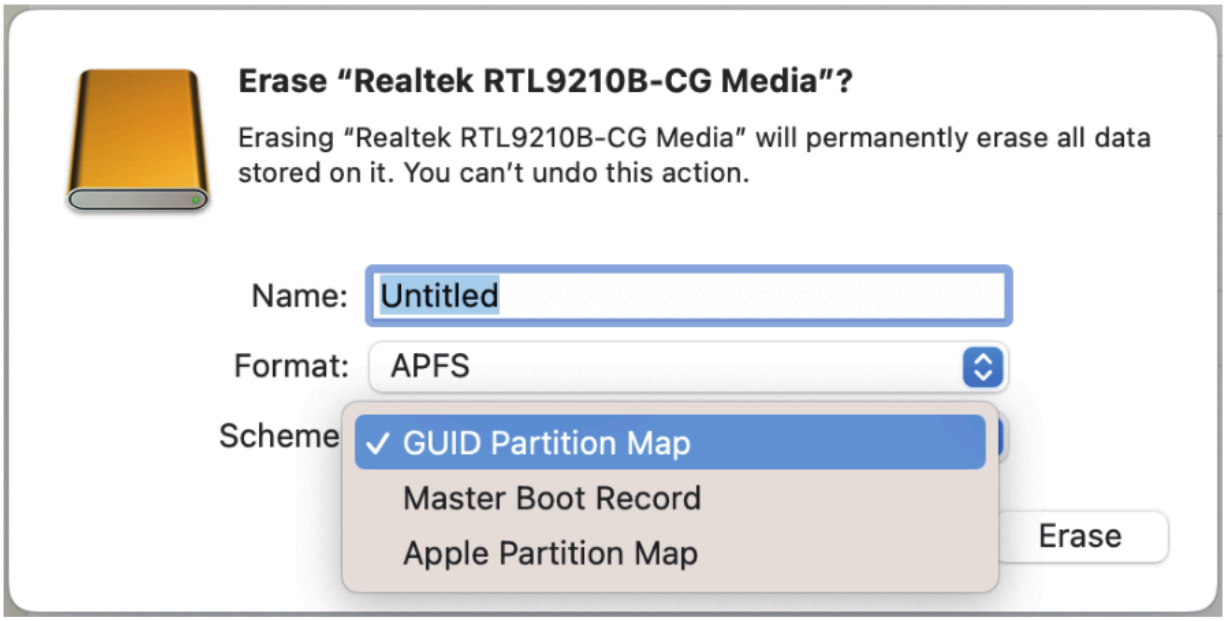
3. Set the disk **Name** to your preference or just leave it at the default.



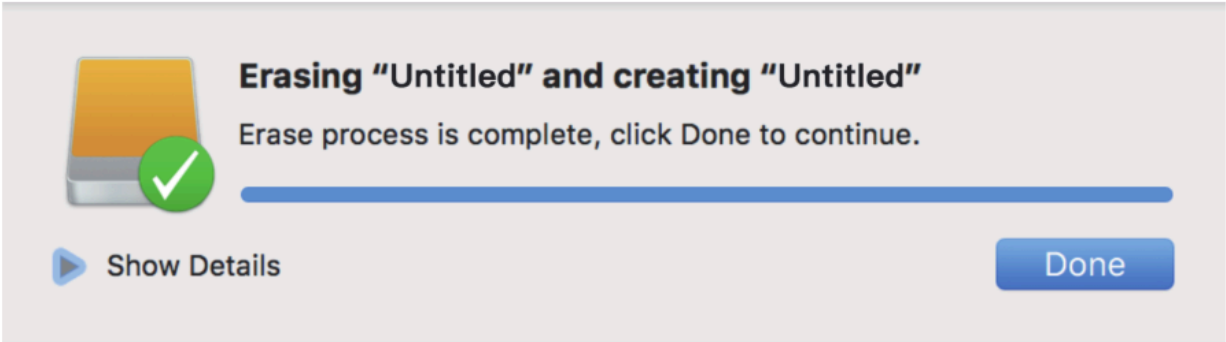
4. Define the Format or leave it as default.



5. Select the "**Scheme**" or leave it as default.



6. Click "**Erase**", then wait patiently for the precess to complete.



Raid Setting

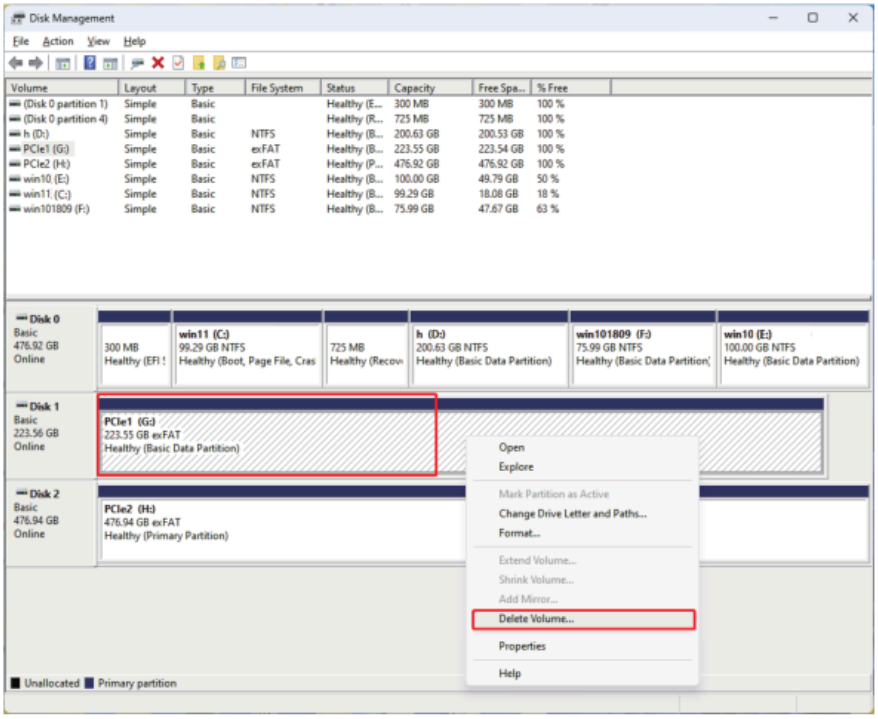
For Windows

1. Right Click the Windows icon

   at the buttom of the computer desktop, then choose "**Disk Management**".
2. Check for partions on the external expanded disk and delete them if found. Right-click on each partition volume and choose "**Delete Volume**". Repeat this process for all partitions on the external expansion hard drive.

ⓘ NOTE:

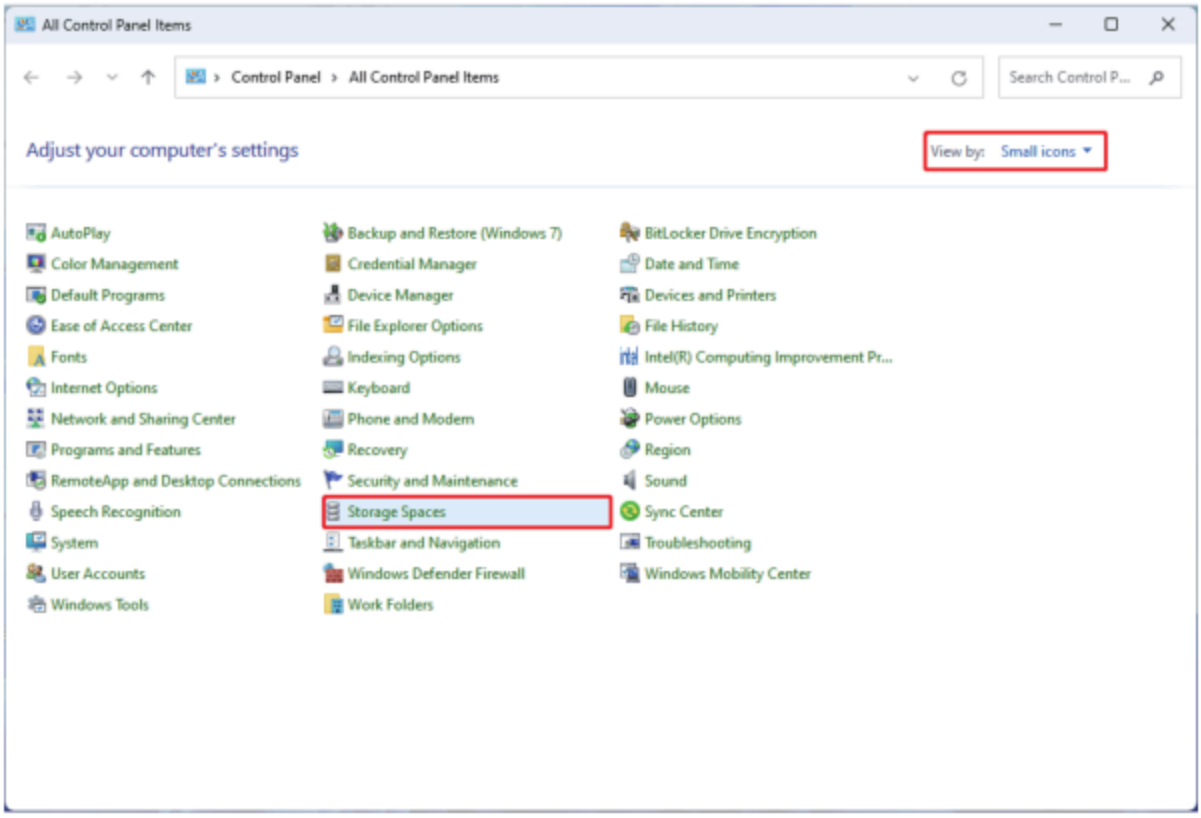
To prevent the loss of important data due to disk formatting, please backup before proceeding with deletion.



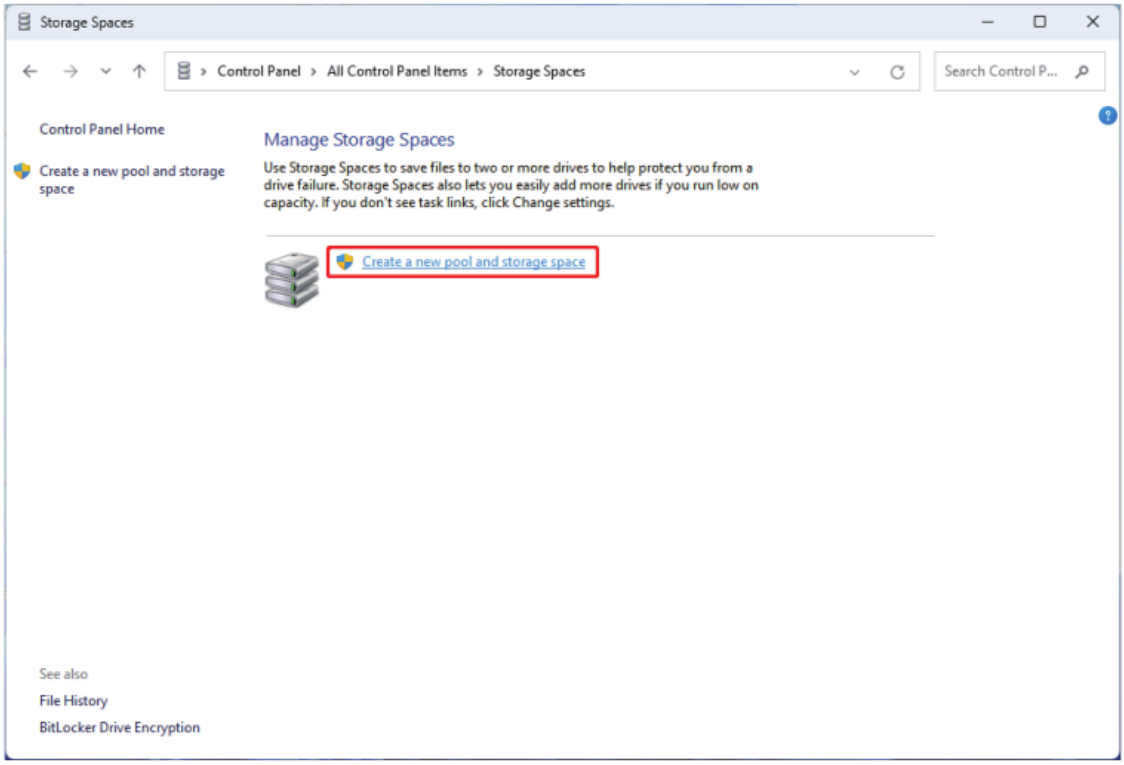
3. Click **Control Panel** shortcut "



", change the view mode to "**Small icons**" in the upper right corner of the window, choose "**Storage Spaces**" in the computer's **Setting** menu.



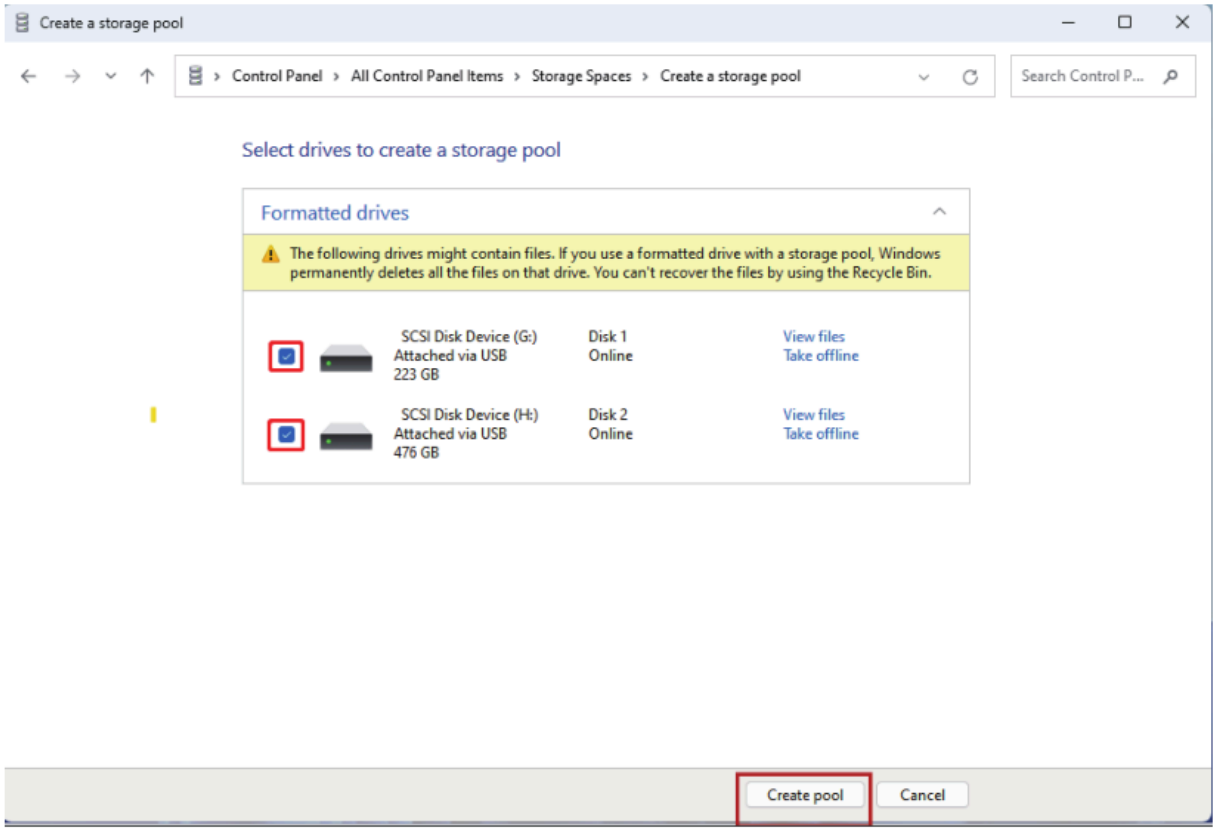
4. Choose "**Create a new pool and storage space**" in "**Storage Spaces**".



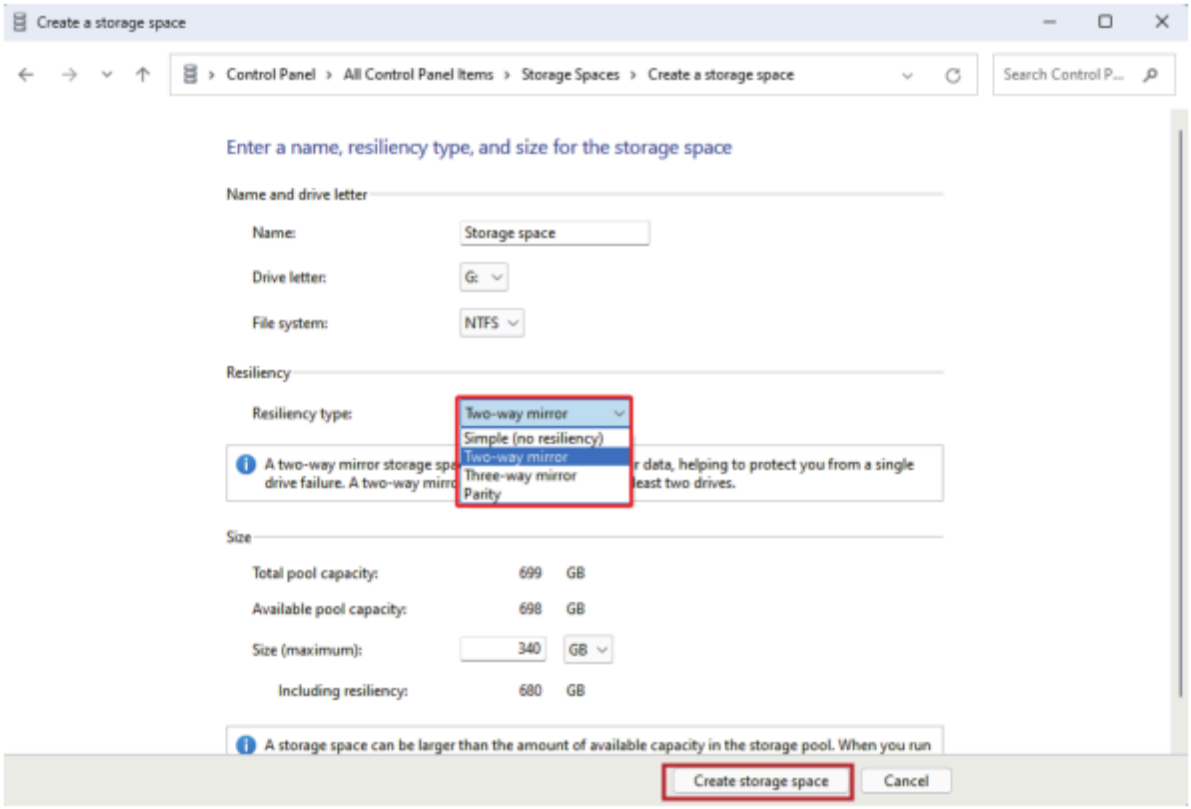
5. Tick the disk to create a storage pool. then click "**Create pool**".

NOTE:

Prepare at lease two storage disks. If you encounter issues, try disconnecting and reconnecting the external expansion drive, then repeat the previous step to create a new pool and storage space.



6. Enter a "**Name**", select "**Two-way mirror**" in **Resiliency** type(choose other resiliency types according to your needs),then enter the **Size** for the newly created storage space, finally click "**Create storage space**" to proceed.

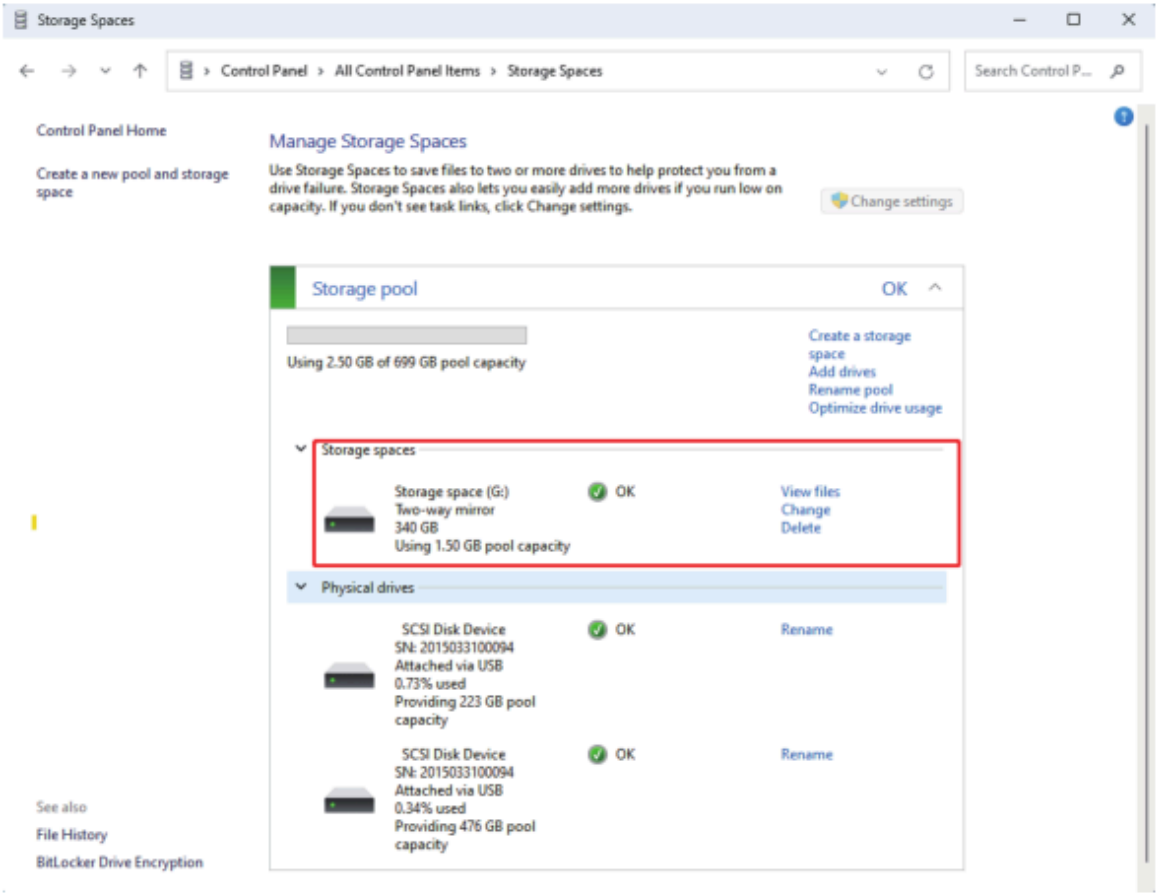


Simple Spaces: High performance and large storage space, but do not protect your files in case of drive failure. Requires at least two drives.

Mirror Spaces: Windows automatically maintains the integrity of your data, making it easier to recover files in the event of a drive failure.Two-way mirror requires at least two drives, and three-way mirror requires at least five drives.

Parity Spaces: Improve storage efficiency. Protect your files in case of drive failure by maintaining multiple copies, ideal for archival data and streaming media. Single drive failure protection requires at least three drives, while dual drive failure protection requires at least seven drives.

7. The storage pool is created with two-way mirrored partitions in the storage space. RAID 1 is set up, providing data redundancy in case of hard drive failure.

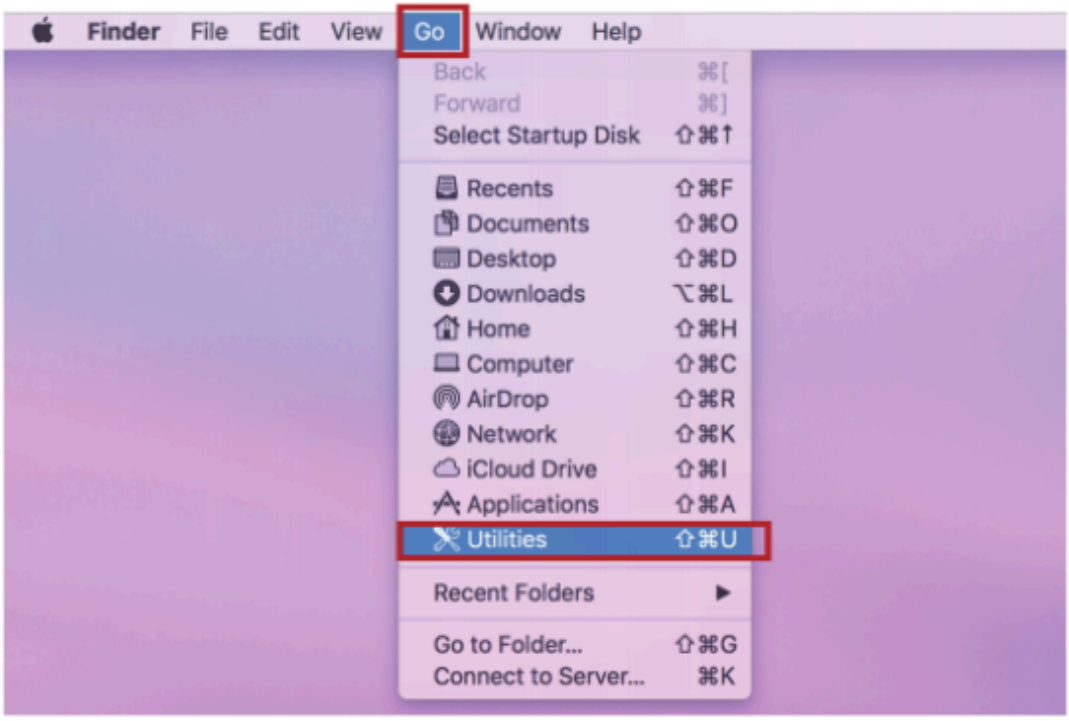


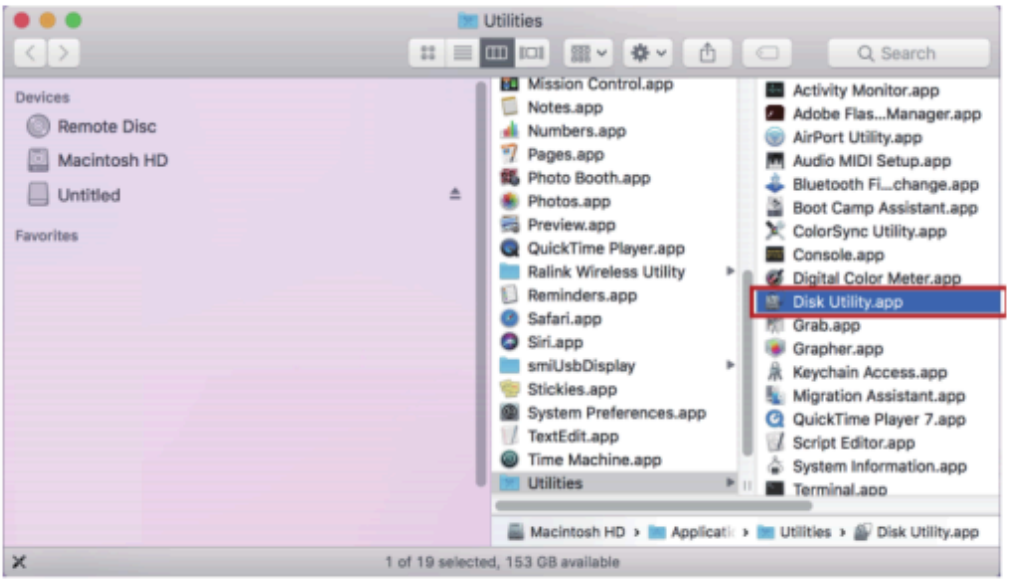
For macOS

1. Prepare at least two hard drives for storage expansion.
2. Click "**Go**", select "**Utilities**", choose "**Disk Utility**



".

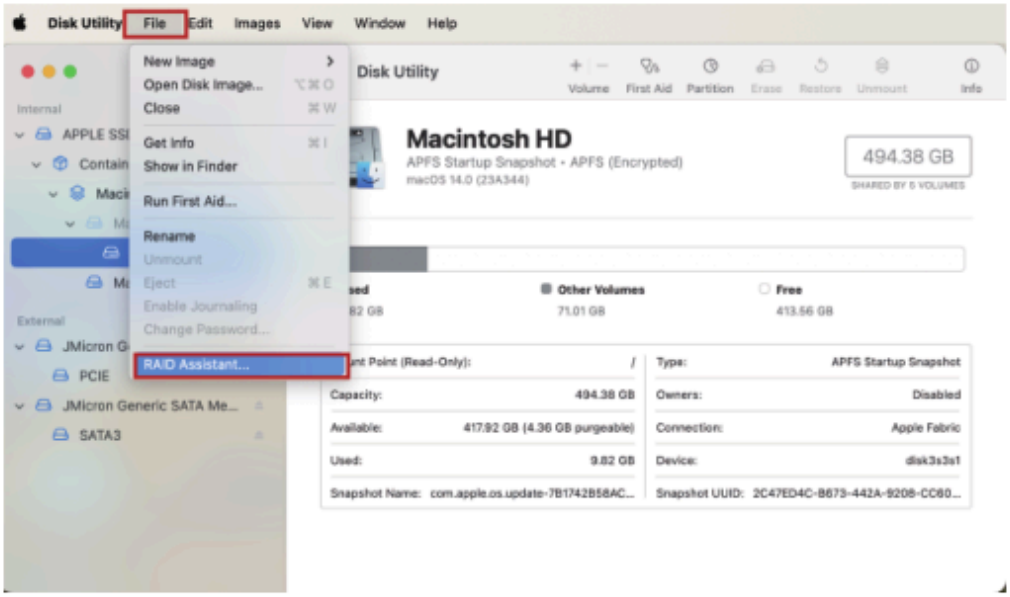




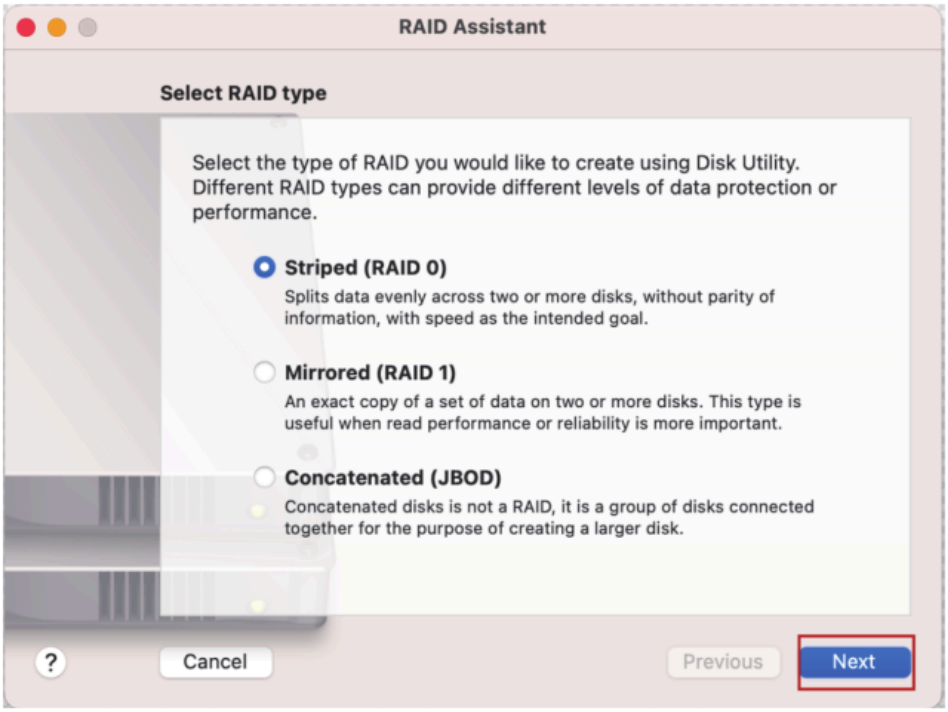
3. In "**Disk Utility**



", click on "**File**"->"**RAID Assistant...**".



4. Read the instruction carefully and select **RAID type** according to your needs, then click "**Next**".

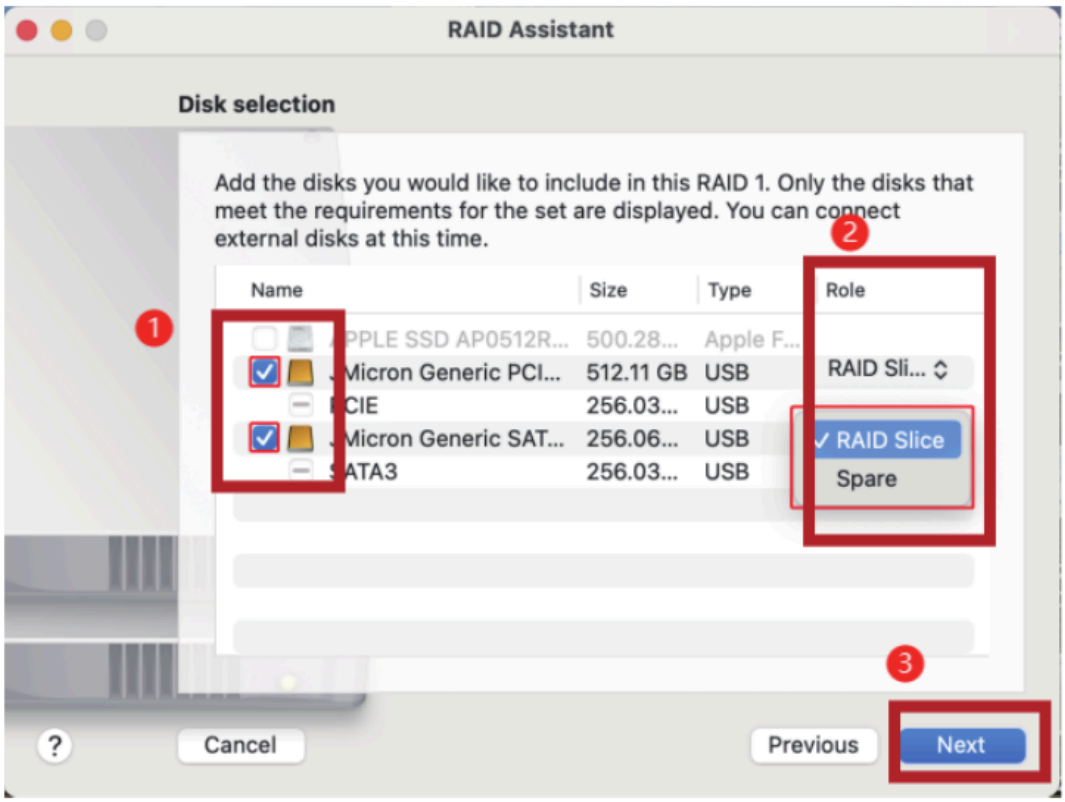


Striped (RAID 0): Speed up data access with a striped RAID set. Requires starting up from another disk to create the set.

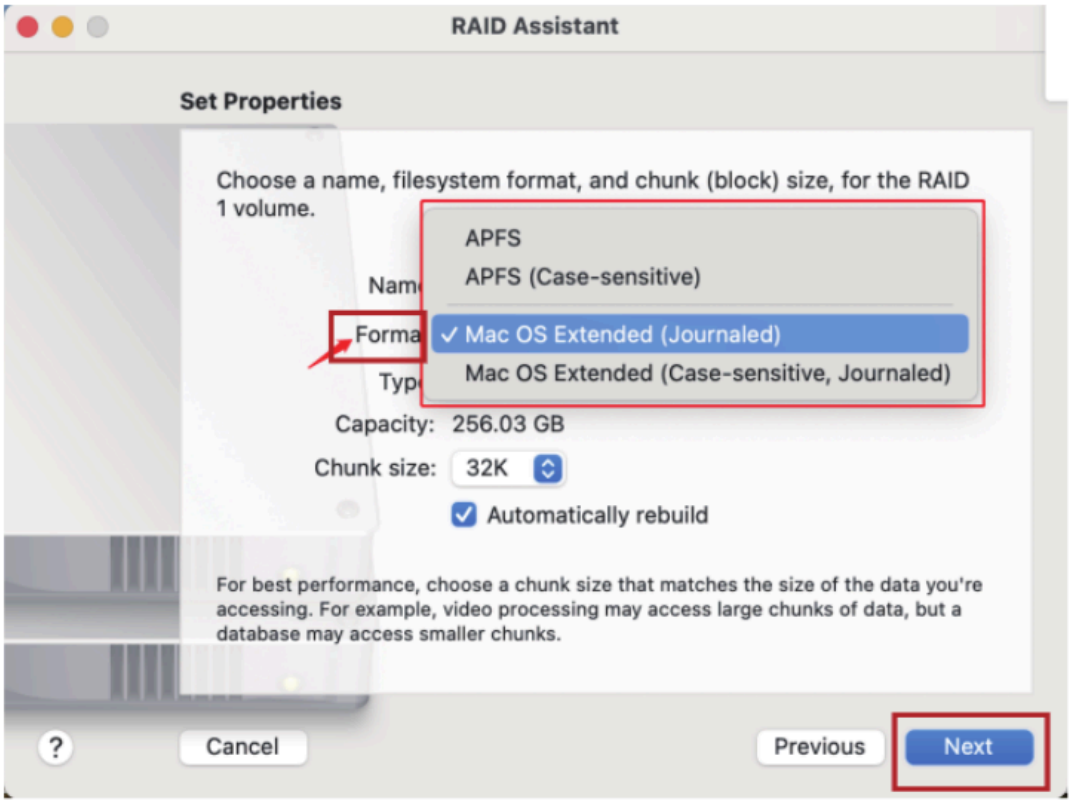
Mirrored (RAID 1): Protect data against hardware failure with a mirrored RAID set. Create it by starting up from another disk.

Concatenated(JBOD): Combine smaller disks into one large disk for increased storage space.

5. Select the check boxes of the disks you want to include in the set. Click the pop-up menu in the **Role** column, choose "**RAID slice**" or "**Spare**" to designate the disk as a standard member or "**Spare**" in the set. Click "**Next**".



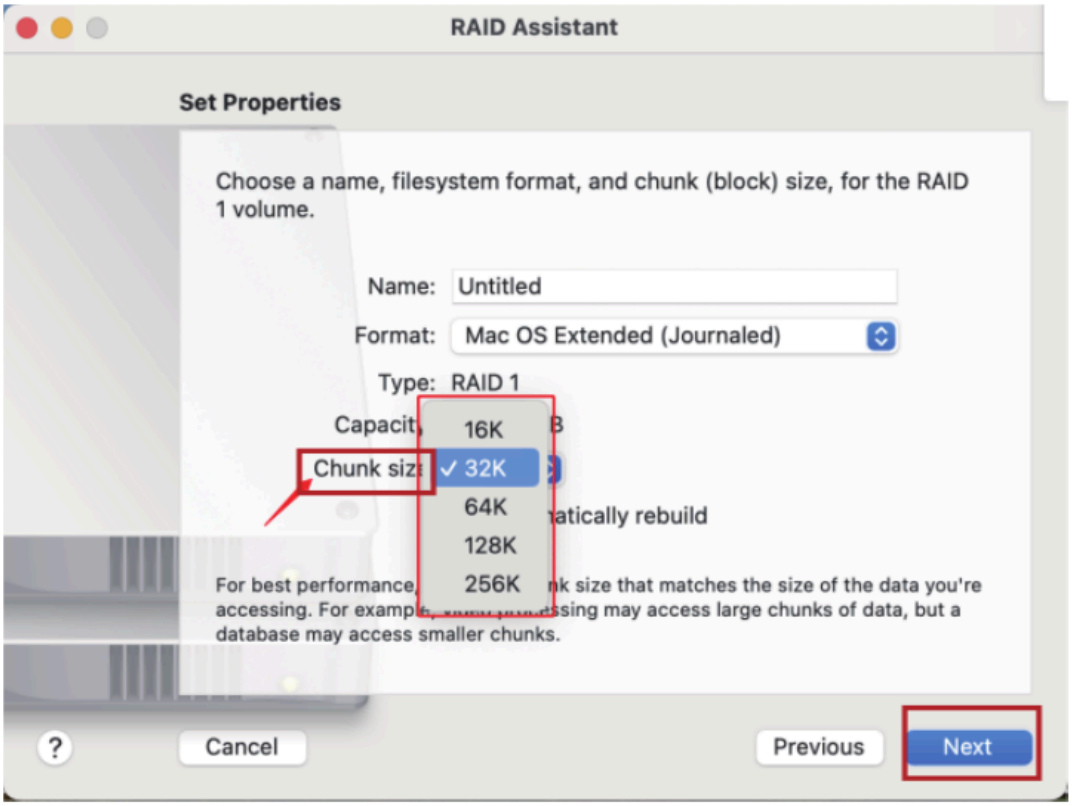
6. Enter a **Name** in the **RAID Name** field. Click the **Format** pop-up menu, then choose a volume format that you want for all the disks in the set.



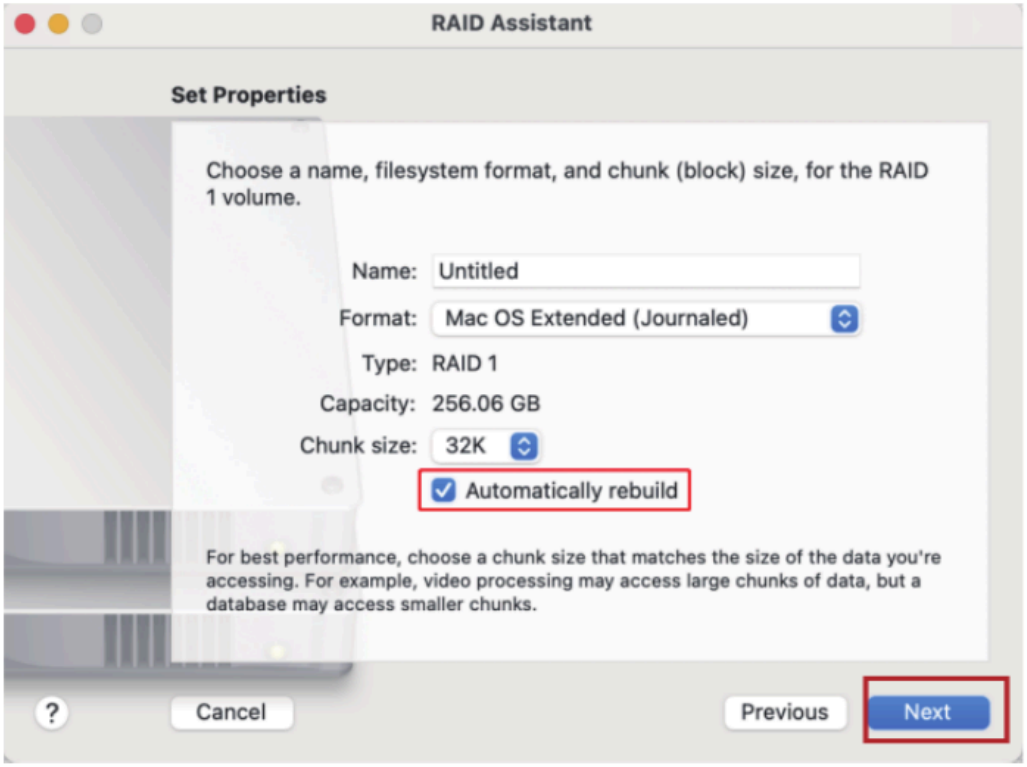
7. Click the "**Chunk Size**", choose a disk chunk size that you want used for all the disks.

NOTE

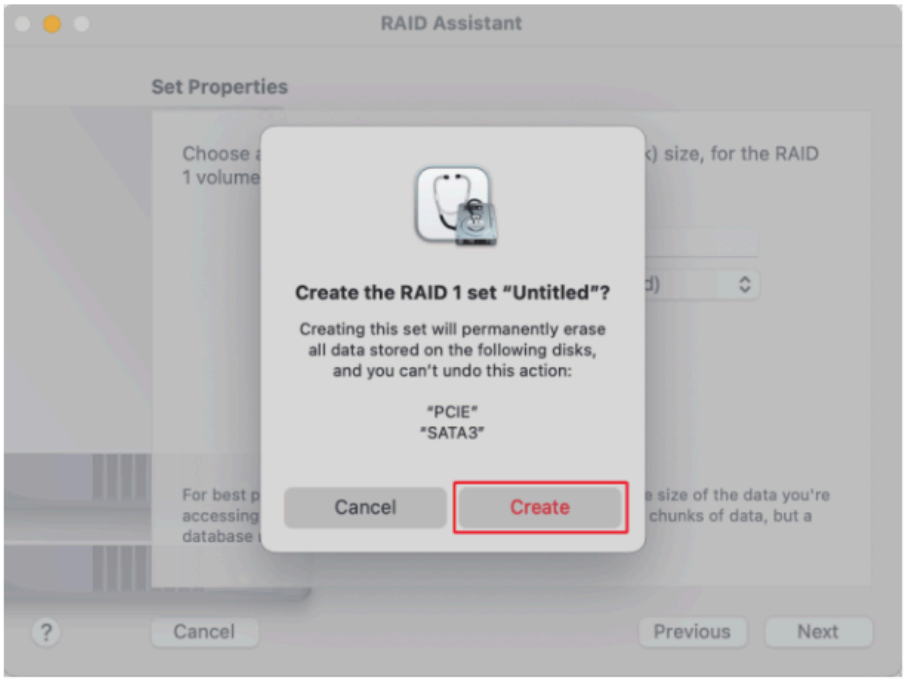
When creating a **striped set**, evenly distribute data chunks across drives for efficient access. Optimize performance by choosing a smaller chunk size to spread data and allow simultaneous access. For **mirrored disk** sets, match the chunk size to the accessed data type (e.g., large for videos, small for databases)



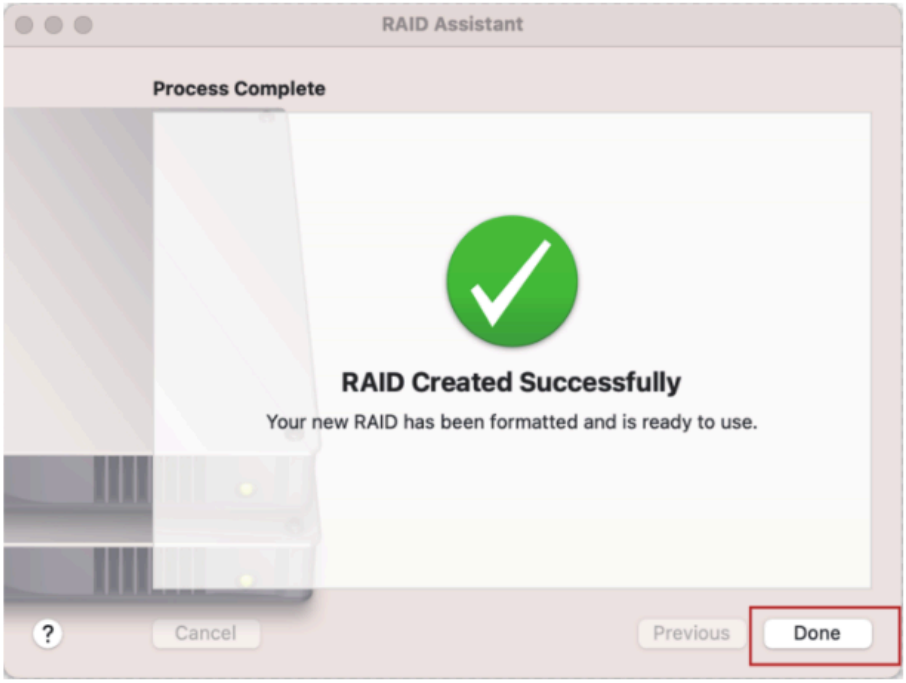
8. For **mirrored RAID set**, select the "**Automatically rebuild**" check box to allow the set to be automatically rebuilt when member disks are reconnected, click "**Next**".



9. Click "**Create**".



10. Click "**Done**".



Chapter 4 FAQ and Aftersale Service

It contains the following sections :

•FAQ

•Aftersale Service

FAQ

Q1: Why I could only get about 1000Mbps via WAVLINK device?

A1: This issue occurs because the USB-C port of your personal computer does not support the USB3.2 Gen2x2 protocol. Please ensure that the USB-C port of your personal computer support the USB3.2 Gen2x2 protocol so that the WAVLINK device can reach its optimal performance.

Aftersale Service

Need help?

We're here for you!

Online support: wavlink.com
Available Mon-Fri 8:30 am-5:30pm (UTC+8)

support@wavlink.com
Available Mon-Fri 8:30 am-5:30pm (UTC+8)

+1 8889730883 (US Local)
Mon-Fri 9:00 am - 10:00 pm (UTC-5)

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