



# ASROCK Configuring RAID Array Using UEFI Setup Utility User Guide

[Home](#) » [ASRock](#) » ASROCK Configuring RAID Array Using UEFI Setup Utility User Guide 

## Contents

- [1 ASROCK Configuring RAID Array Using UEFI Setup Utility](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Installing Windows® on a RAID volume](#)
- [5 Documents / Resources](#)
  - [5.1 References](#)
- [6 Related Posts](#)



## ASROCK Configuring RAID Array Using UEFI Setup Utility



## Product Information

This product is a RAID controller that allows you to configure a RAID array using the UEFI Setup Utility. It supports various RAID levels and provides fast and reliable data storage and protection.

## Specifications

- Brand: ASRock
- Model: [Model Name]
- UEFI Setup Utility: Yes
- RAID Levels Supported: Multiple
- Compatibility: Check ASRock's website for details about each model motherboard

## **Product Usage Instructions**

### **Configuring RAID Array Using UEFI Setup Utility**

#### **Step 1: Enable VMD Global Mapping**

1. Enter the UEFI Setup Utility.
2. Navigate to the Advanced page.
3. Set "Enable VMD Global Mapping" to [Enabled].
4. Press the Enter key to save the configuration changes and exit setup.

#### **Step 2: Enter Intel(R) Rapid Storage Technology**

1. After exiting the UEFI Setup Utility, enter Intel(R) Rapid Storage Technology.
2. Navigate to the Advanced page.

#### **Step 3: Create RAID Volume**

1. Select the option "Create RAID Volume".
2. Press the Enter key.

#### **Step 4: Configure RAID Volume**

1. Key in a volume name.
2. Press the Enter key, or simply press the Enter key to accept the default name.

#### **Step 5: Select RAID Level**

1. Select your desired RAID Level.
2. Press the Enter key.

#### **Step 6: Select Hard Drives**

1. Select the hard drives to be included in the RAID array.
2. Press the Enter key.

#### **Step 7: Set Stripe Size**

1. Select a stripe size for the RAID array or use the default setting.
2. Press the Enter key.

## Step 8: Create RAID Volume

Select "Create Volume" and press the Enter key to start creating the RAID array.

## Deleting a RAID Volume

If you want to delete a RAID volume:

1. Select the option "Delete" on the RAID volume info page.
2. Press the Enter key.

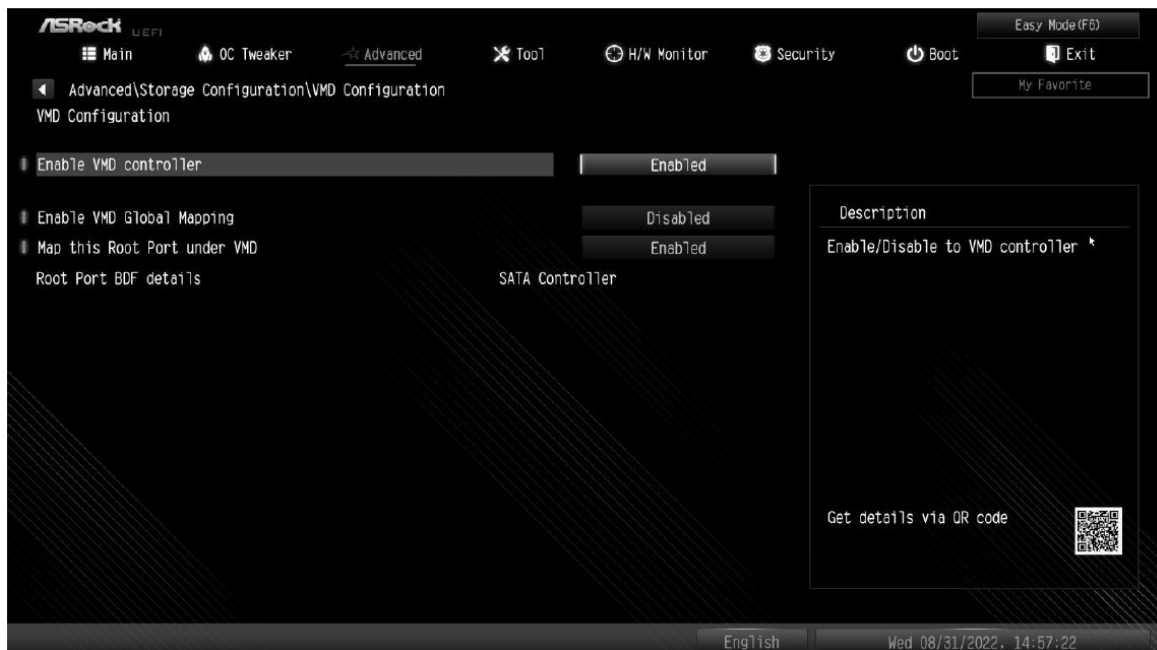
## Frequently Asked Questions (FAQ)

- **Q: Are the UEFI screenshots shown in this installation guide applicable to all ASRock motherboard models?**
  - A: No, the UEFI screenshots are for reference only. Please refer to ASRock's website for details about each model motherboard.
- **Q: How do I download the drivers needed for this product?**
  - A: Please visit ASRock's website at <https://www.asrock.com/index.asp> to download the drivers. Unzip the files and save them to a USB flash drive.
- **Q: What should I do if the target drive is not available during the Windows installation process?**
  - A: Click the button labeled "Refresh" to check if the drive becomes available. If it does not, please make sure the necessary drivers are installed.
- **Q: How do I install the Rapid Storage Technology driver and utility after finishing the Windows installation?**
  - A: After the Windows installation is finished, please visit ASRock's website at <https://www.asrock.com/index.asp> to download and install the Rapid Storage Technology driver and utility.

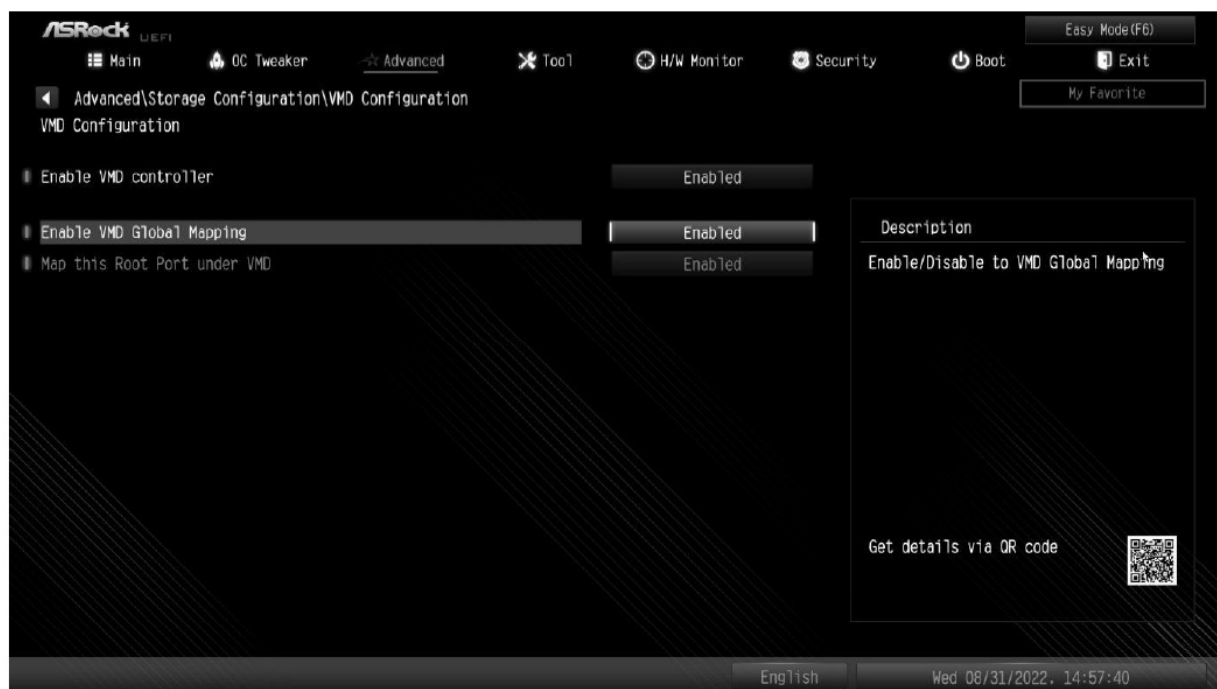
## Configuring a RAID array Using UEFI Setup Utility

The BIOS screenshots in this guide are for reference only and may differ from the exact settings for your motherboard. The actual setup options you will see shall depend on the motherboard you purchase. Please refer to the product specification page of the model you are using for information on RAID support. Because the motherboard specifications and the BIOS software might be updated, the content of this documentation will be subject to change without notice.

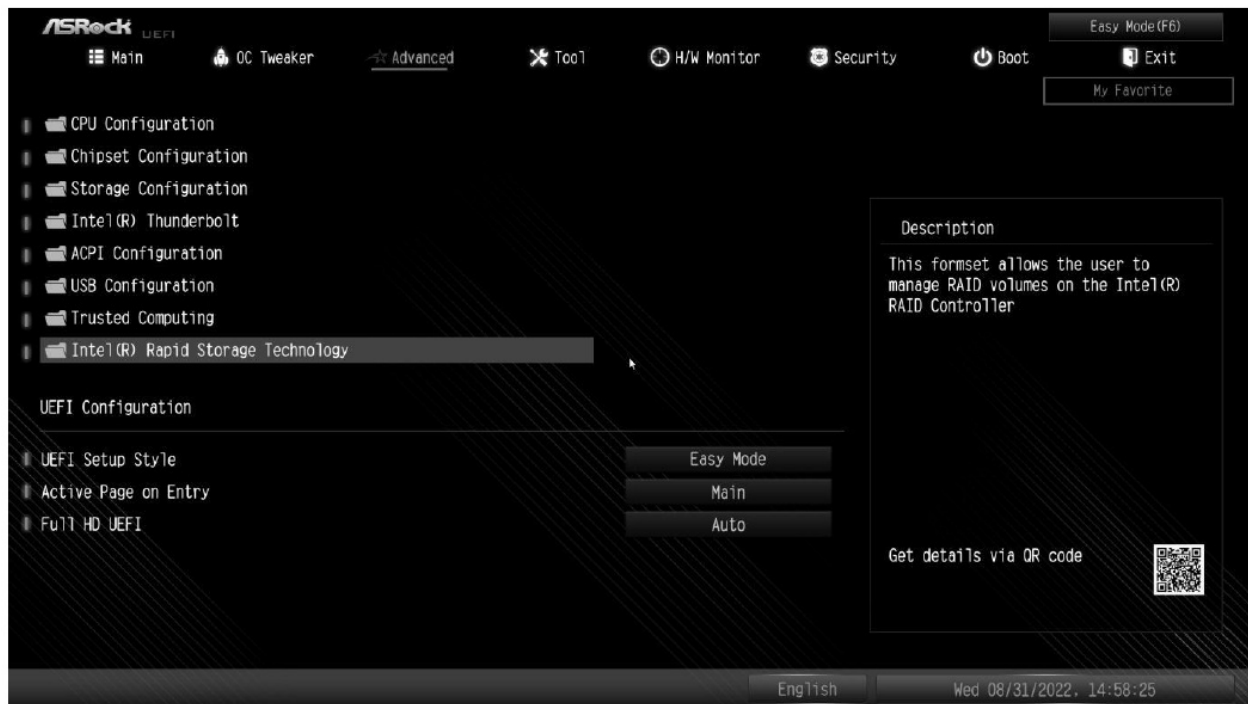
- **STEP 1:** Enter the UEFI Setup Utility by pressing <F2> or <Del> right after you power on the computer.
- **STEP 2:** Go to Advanced\Storage Configuration\VMD Configuration and set Enable VMD controller to [Enabled].



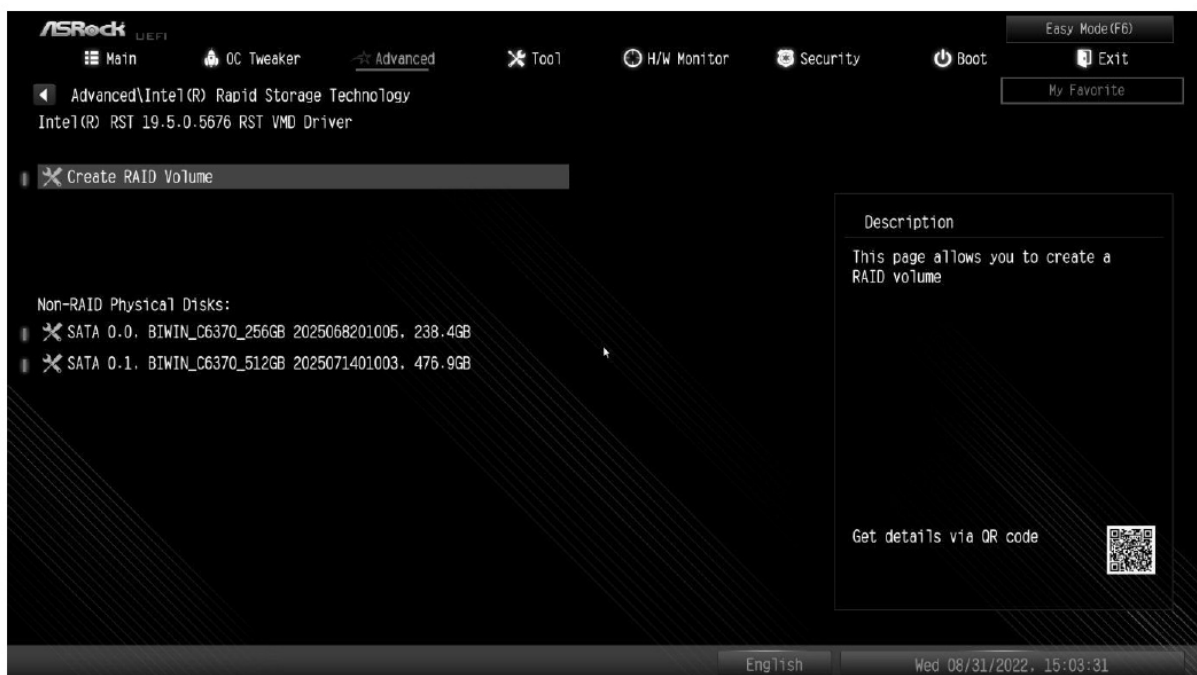
Then set Enable VMD Global Mapping to [Enabled]. Next, press <F10> to save the configuration changes and exit the setup.



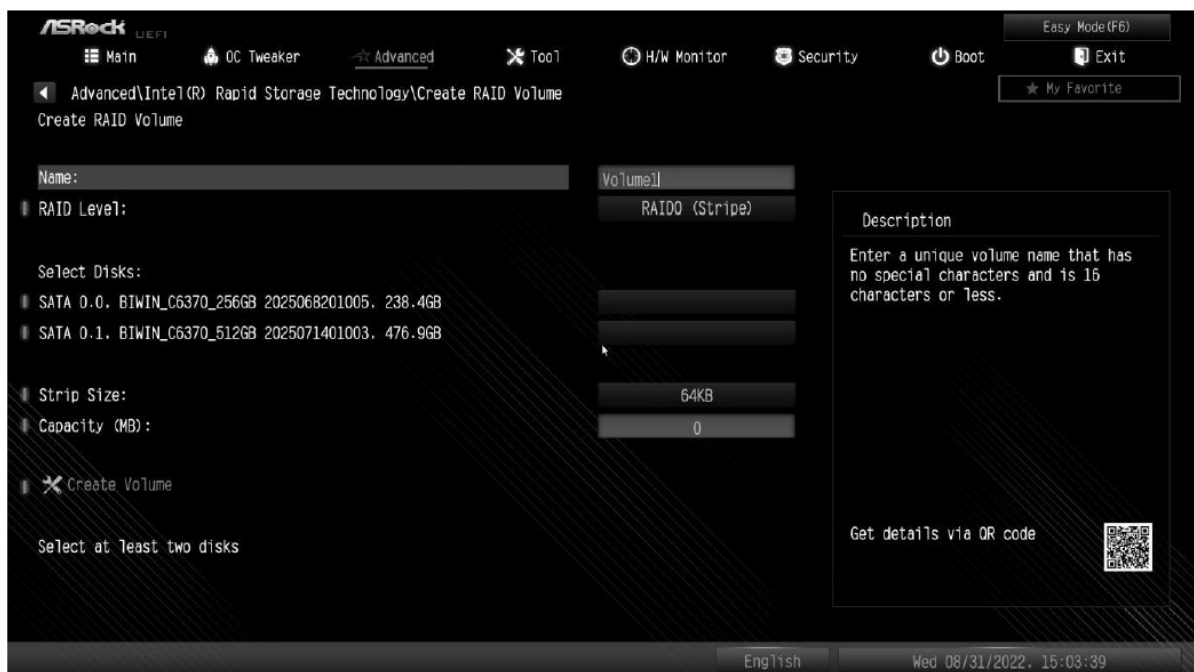
- **STEP 3.** Enter Intel(R) Rapid Storage Technology in the Advanced page.



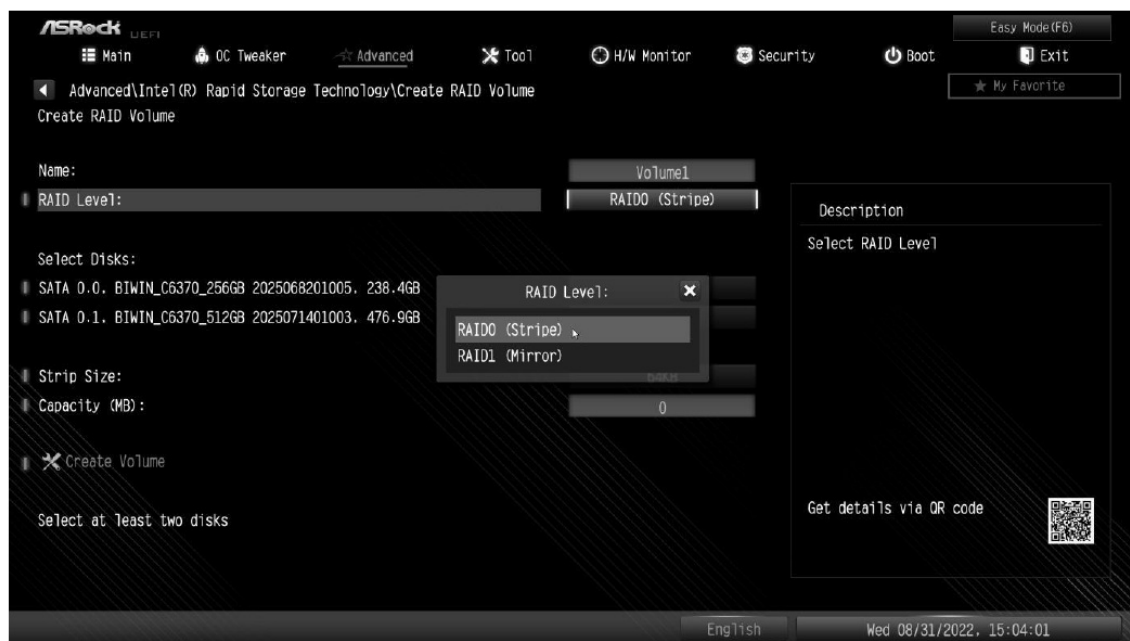
- **STEP 4:** Select the option Create RAID Volume and press <Enter>.



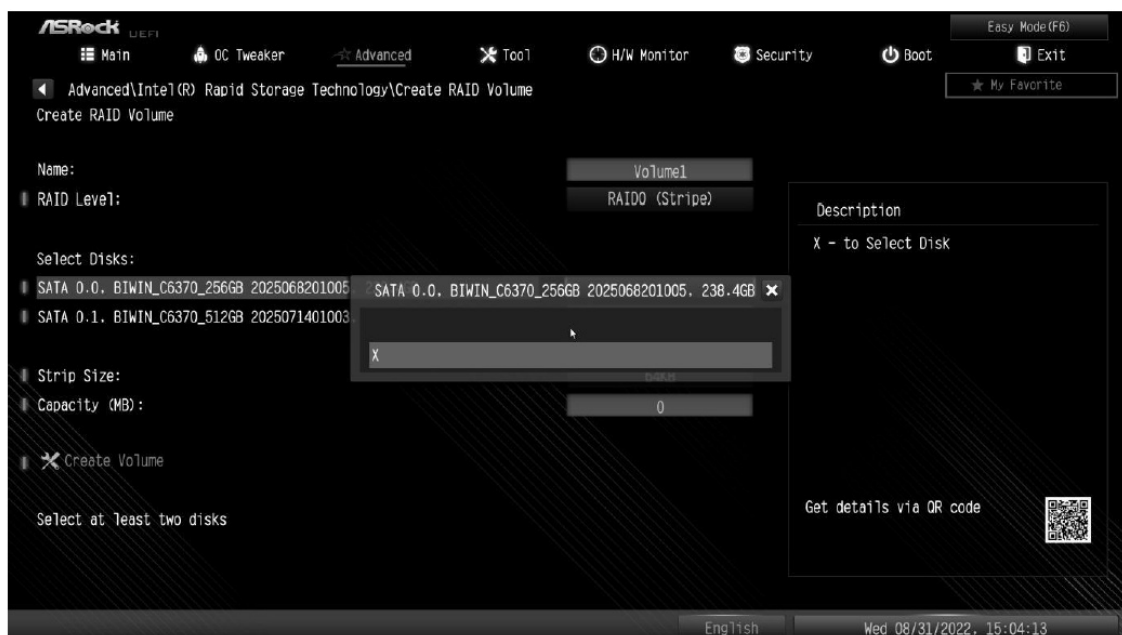
- **STEP 5:** Key in a volume name and press <Enter>, or simply press <Enter> to accept the default name.



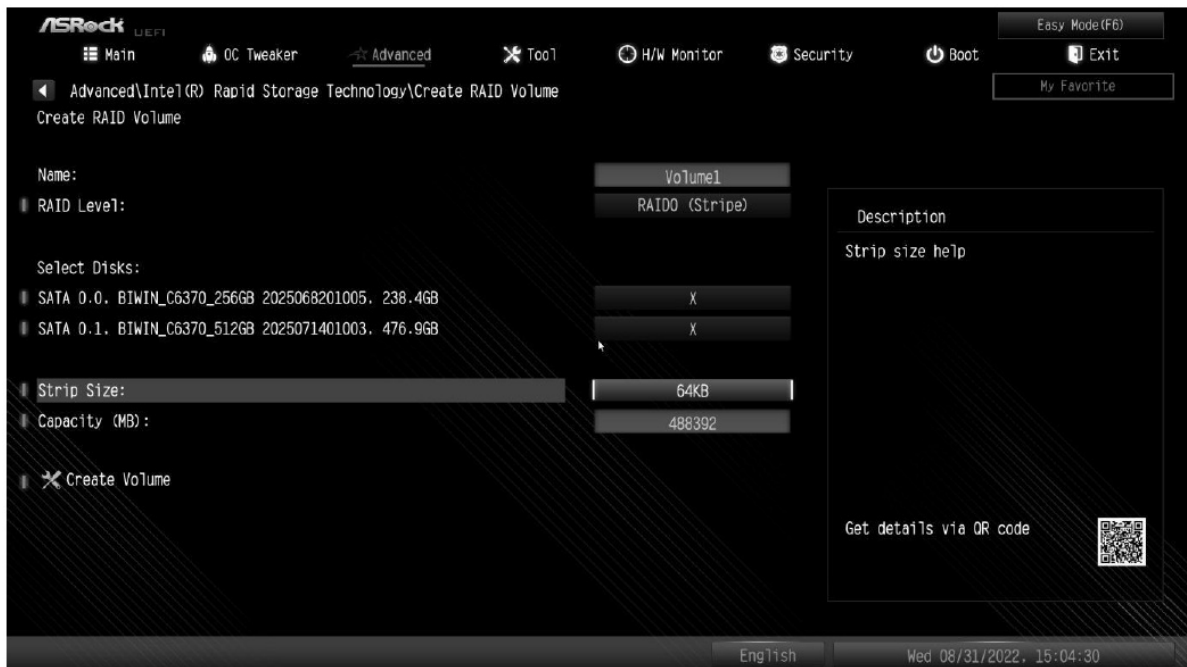
- **STEP 6:** Select your desired RAID Level and press <Enter>.



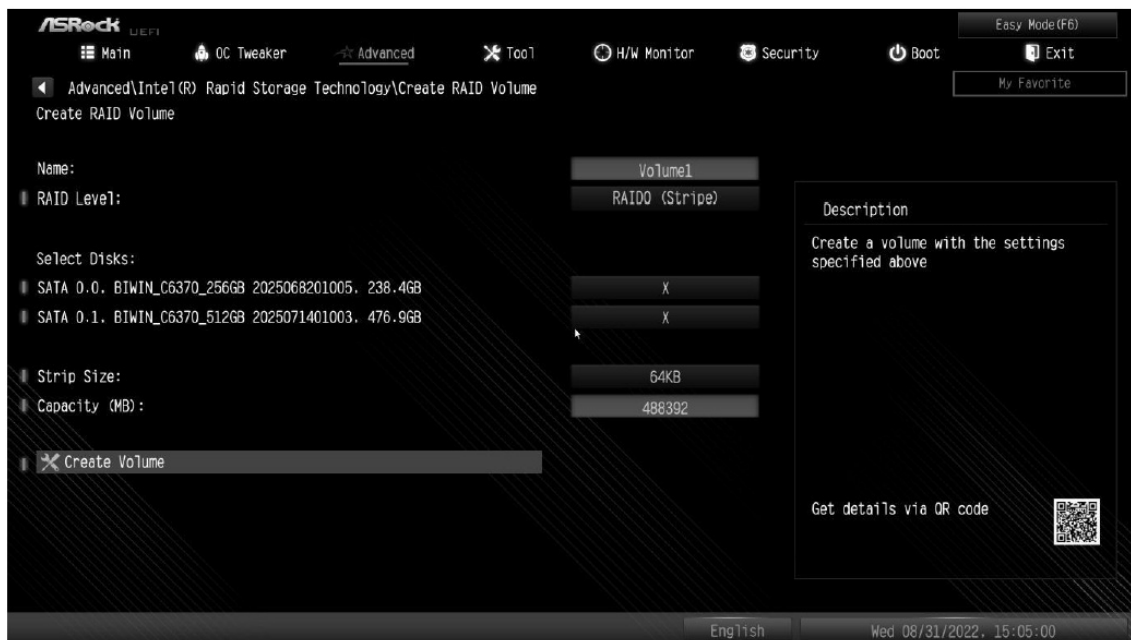
- **STEP 7:** Select the hard drives to be included in the RAID array and press <Enter>.



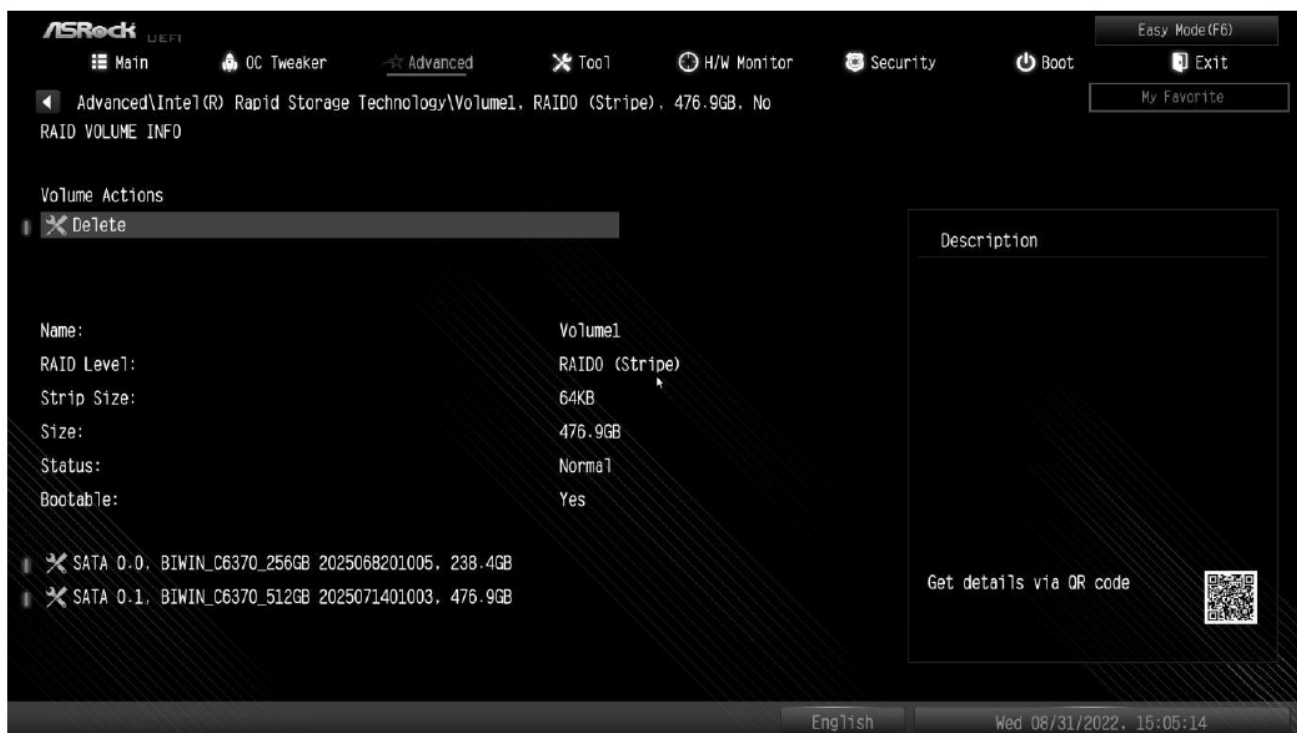
- **STEP 8:** Select a stripe size for the RAID array or use the default setting and press <Enter>.



- **STEP 9:** Select Create Volume and press <Enter> to start creating the RAID array.



- If you want to delete a RAID volume, select the option Delete on the RAID volume info page and press <Enter>.



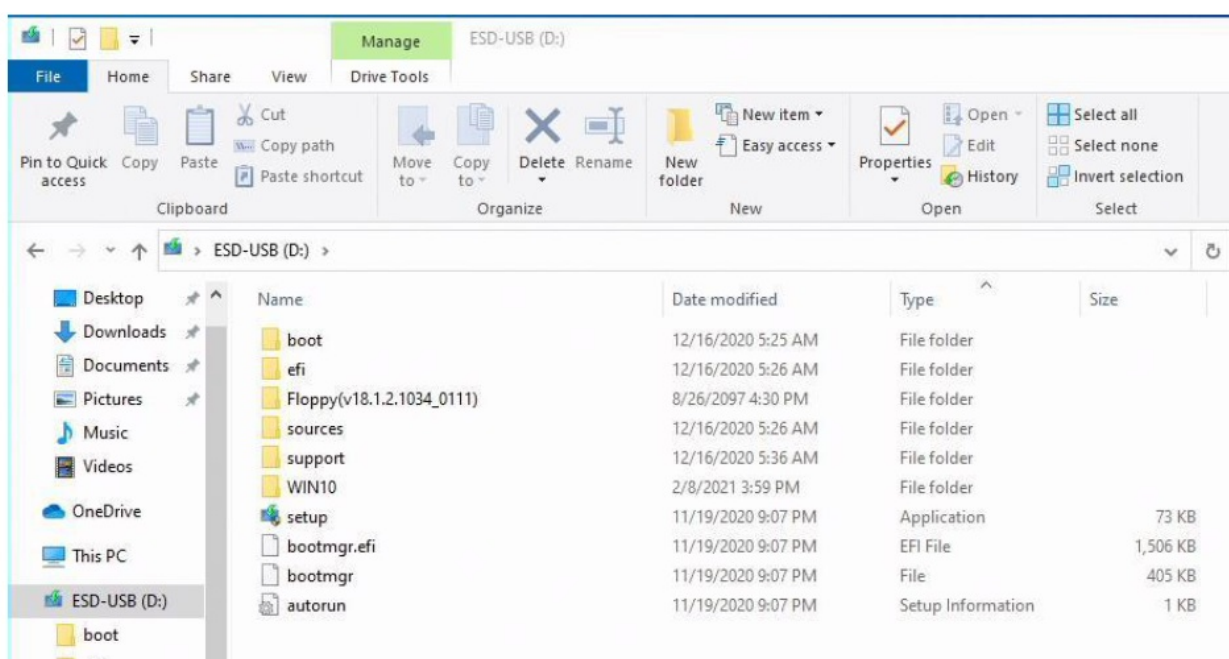
- Please note that the UEFI screenshots shown in this installation guide are for reference only. Please refer to ASRock's website for details about each model motherboard.

<https://www.asrock.com/index.asp>

## Installing Windows® on a RAID volume

After the UEFI and RAID BIOS setup, please follow the steps below.

- **STEP 1** Please download the drivers from ASRock's website ( <https://www.asrock.com/index.asp>) and unzip the files to a USB flash drive.

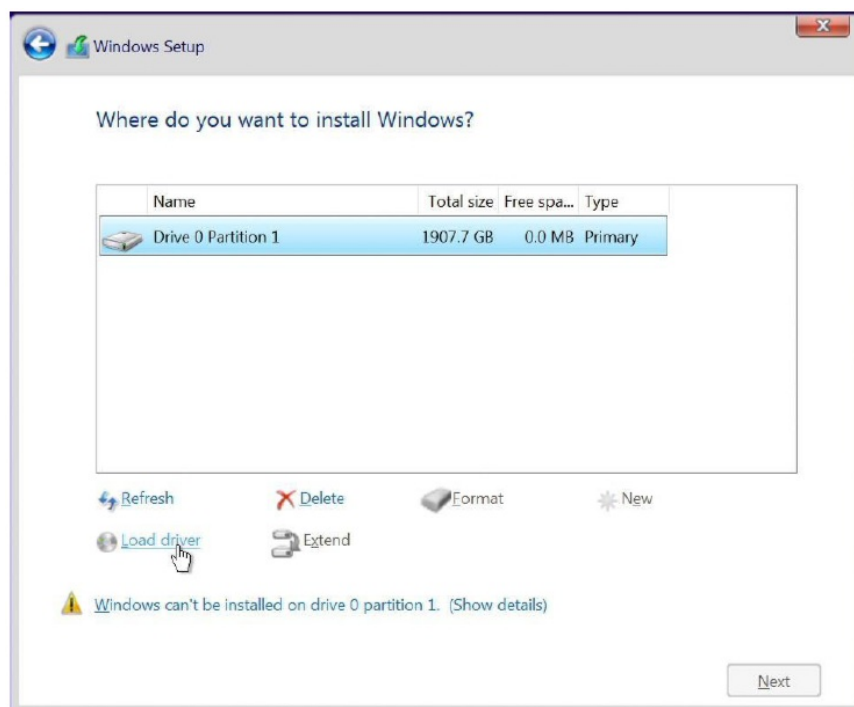


- **STEP 2** Press <F11> at system POST to launch the boot menu and choose the item "UEFI: <Windows installation media>" to install Windows® 10 64-bit OS.

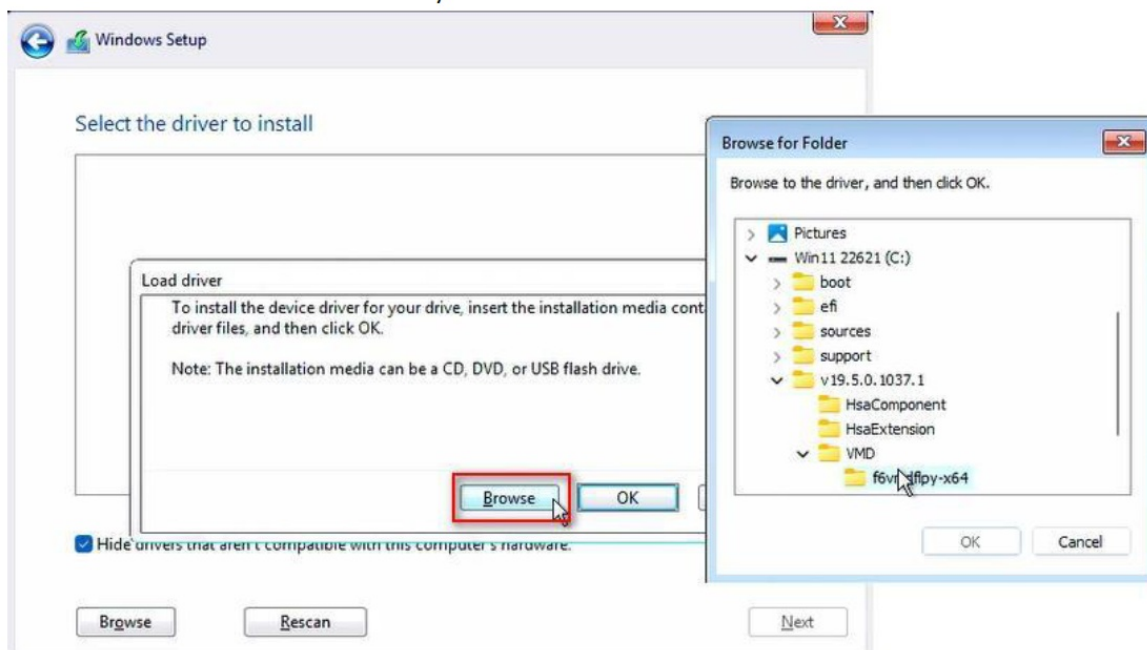




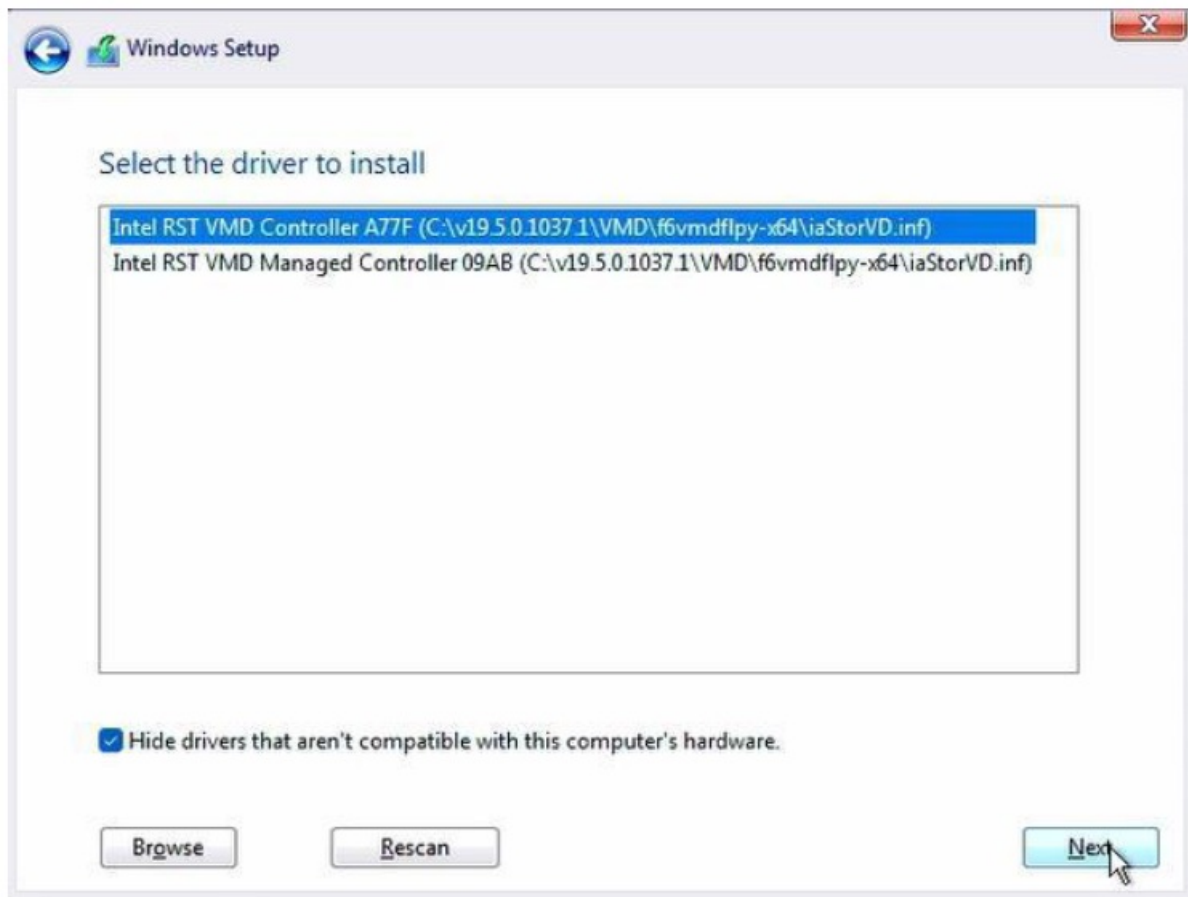
- **STEP 3** (If the drive that you plan to install Windows is available, please go to STEP 6) If during the Windows installation process, the target drive is not available, please click <Load Driver>.



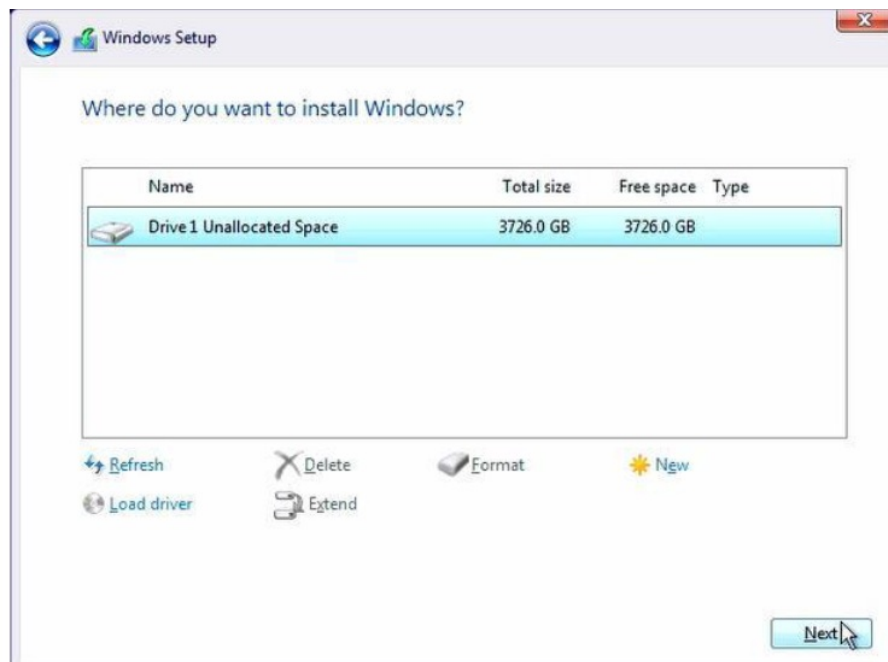
- **STEP 4** Click <Browse> to find the driver on your USB flash drive.



- **STEP 5** Select "Intel RST VMD Controller" and then click <Next>.



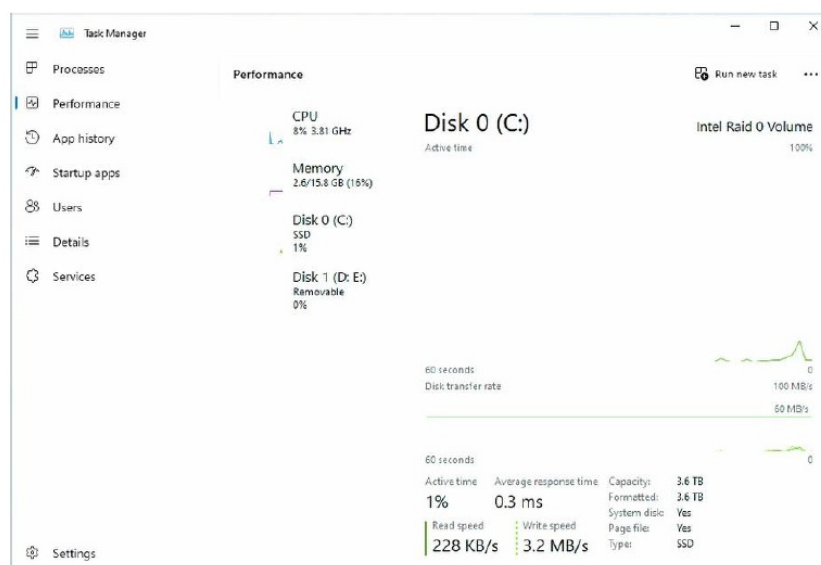
- **STEP 6** Select unallocated space and then click <Next>.




- **STEP 7** Please follow Windows' installation instructions to finish the process.



- **STEP 8** After the Windows installation is finished, please install the Rapid Storage Technology driver and utility from ASRock's website. <https://www.asrock.com/index.asp>



## Documents / Resources

	<p><b><a href="#">ASROCK Configuring RAID Array Using UEFI Setup Utility</a></b> [pdf] User Guide          Configuring RAID Array Using UEFI Setup Utility, RAID Array Using UEFI Setup Utility, Array U          sing UEFI Setup Utility, Using UEFI Setup Utility, UEFI Setup Utility, Setup Utility, Utility</p>
---	---

## References

- [ASRock](#)
- [User Manual](#)

