RAID Configuration Guide



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## About this guide

This guide contains information that you need to create RAID configurations. You can create different RAID configurations based on your motherboard chipset and software.



The screenshots in this guide are for reference only. The screenshots may vary with models, but the configurations steps are similar.

## How this guide is organized

This guide contains the following parts:

Chapter 1: Intel® RAID Configuration

This chapter describes the Intel® RAID configurations and lists the setup procedures to create Intel® RAID configurations.

Chapter 2: AMD RAID Configuration

This chapter describes the AMD RAID configurations and lists the setup procedures to create AMD RAID configurations.

#### Where to find more information

The ASUS website (<u>www.asus.com</u>) provides updated information on ASUS hardware and software products.

# Intel® RAID Configuration

## 1.1 Intel® RAID configurations

If your motherboard supports Intel® Rapid Storage Technology, you can create RAID 0, RAID 1, RAID 5 or RAID 10 configurations.



Please refer to your motherboard's user manual for details on the actual supported RAID configurations.



If you want to install a Windows® operating system to a hard disk drive included in a RAID set, you have to create a RAID driver disk and load the RAID driver during OS installation. Refer to section 1.2 Creating a RAID driver disk for details.

#### 1.1.1 RAID definitions

**RAID 0 (Data striping)** optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. Two hard disks perform the same work as a single drive but at a sustained data transfer rate, double that of a single disk alone, thus improving data access and storage. Use of two new identical hard disk drives is required for this setup.

**RAID 1 (Data mirroring)** copies and maintains an identical image of data from one drive to a second drive. If one drive fails, the disk array management software directs all applications to the surviving drive as it contains a complete copy of the data in the other drive. This RAID configuration provides data protection and increases fault tolerance to the entire system. Use two new drives or use an existing drive and a new drive for this setup. The new drive must be of the same size or larger than the existing drive.

RAID 5 stripes both data and parity information across three or more hard disk drives. Among the advantages of RAID 5 configuration include better HDD performance, fault tolerance, and higher storage capacity. The RAID 5 configuration is best suited for transaction processing, relational database applications, enterprise resource planning, and other business systems. Use a minimum of three identical hard disk drives for this setup.

**RAID 10** is data striping and data mirroring combined without parity (redundancy data) having to be calculated and written. With the RAID 10 configuration you get all the benefits of both RAID 0 and RAID 1 configurations. Use four new hard disk drives or use an existing drive and three new drives for this setup.

## 1.1.2 Installing storage devices

The motherboard supports Serial ATA hard disk drives and PCIE SSD storage devices. For optimal performance, install identical drives of the same model and capacity when creating a disk array.



Refer to Chapter 2 in your motherboard's user manual for details on installing storage devices to your motherboard.

## 1.1.3 Intel® Rapid Storage Technology in UEFI BIOS

To enter the Intel® Rapid Storage Technology in UEFI BIOS:

Enter the BIOS Setup during POST.



Refer to Chapter 3 in your motherboard's user manual for details on entering and navigating through the BIOS Setup.

 Go to Advanced > PCH Storage Configuration, then set SATA Mode Selection to [Intel RST Premium With Intel Optane System Acceleration (RAID)].



Due to chipset limitation, when SATA ports are set to RAID mode, all SATA ports run at RAID mode together.

- 3. Configure additional settings for your storage device and RAID configuration:
  - If you are using SATA storage devices, no additional settings are required.
     Please proceed to next step.
  - If you are using onboard M.2 cards, go to Advanced > PCH Storage Configuration, then set all the corresponding M.2 PCIE Storage RAID Support to [Enabled].
  - If you are using Hyper M.2 cards or PCIE SSDs, go to Advanced > CPU
     Storage Configuration, then set all the corresponding PCIE slots to [Hyper M.2 X16] or [PCIE X4 SSD Card] accordingly.



The Hyper M.2 card is purchased separately.

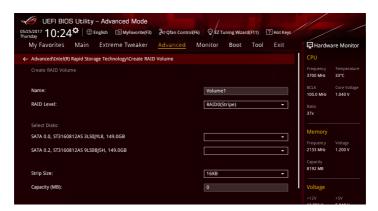
- Go to Boot > CSM (Compatibility Support Module), then set Launch CSM to [Disabled].
- 5. Save your changes and exit the BIOS Setup, then enter the BIOS Setup again.
- Go to the Advanced > Intel(R) Rapid Storage Technology to display the Intel<sup>®</sup> Rapid Storage Technology menu.



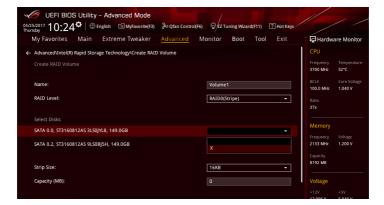
## Creating a RAID set

To create a BAID set:

 From the Intel® Rapid Storage Technology menu, select Create RAID Volume and press <Enter>. The following screen appears:



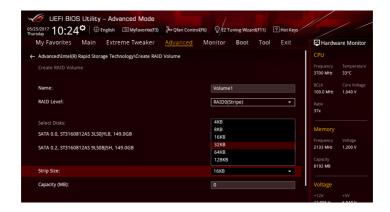
- 2. When the **Name** item is selected, enter a name for the RAID set and press <Enter>.
- When the RAID Level item is selected, press <Enter> to select the RAID level to create, and then press <Enter>.
- Under Select Disks, press <Enter> and select X for the disks you want to include in the BAID set.



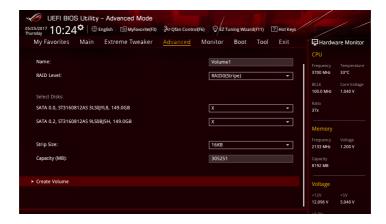
- 5. When the Strip Size item is selected, press <Enter> to select strip size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available strip size values range from 4 KB to 128 KB. The following are typical values:
  - RAID 0: 128 KB
  - BAID 10: 64 KB
  - BAID 5: 64 KB



We recommend a lower strip size for server systems, and a higher strip size for multimedia computer systems used mainly for audio and video editing.



- When the Capacity (MB) item is selected, enter the RAID volume capacity that you
  want and press <Enter>. The default value indicates the maximum allowed capacity.
- When the Create Volume item is selected, press <Enter> to create the RAID volume and return to the Intel® Rapid Storage Technology menu.



## Deleting a RAID set



Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

#### To delete a RAID set:

 From the Intel® Rapid Storage Technology menu, select the RAID volume you want to delete and press <Enter>. The following screen appears:



When the **Delete** item is selected, press <Enter>, then select **Yes** to delete the RAID volume and return to the Intel® Rapid Storage Technology menu, or select **No** to cancel.



## 1.1.4 Intel® Virtual Raid on CPU in UEFI BIOS

Some motherboards support Intel® Virtual Raid on CPU with RAID 0, RAID 1, RAID 5, and RAID 10 solution. RAID 0 can be created without a KEY module, while RAID 1, RAID 5, and RAID 10 requires a KEY module.



- The KEY module is purchased separately.
- The Hyper M.2 x16 card is purchased separately.
- Due to CPU behavior, CPU RAID functions with Intel® CPU RSTe only supports Intel® Core™ X-series Processors (6-core or above) and Intel® SSD modules.
- Refer to section Internal connectors in your motherboard's user manual for the location of the VROC\_HW\_KEY connector.



If you plan on using the CPU RAID configuration spanned across different PCIE slots as OS drives, please install the Hyper M.2 x16 cards into supported PCIE slots. Refer to section **Expansion slots** in your motherboard's user manual for more information on the PCIE slots.

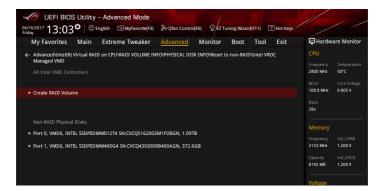
To enter the Intel® Virtual Raid on CPU in UEFI BIOS:

Enter the BIOS Setup during POST.



Refer to Chapter 3 in your motherboard's user manual for details on entering and navigating through the BIOS Setup.

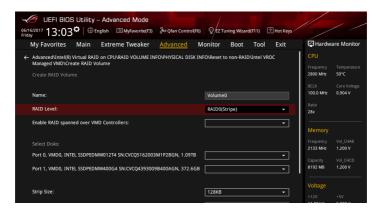
- Go to Boot > CSM (Compatibility Support Module), then set Launch CSM to [Disabled].
- Go to the Advanced > CPU Storage Configuration, then set the PCIE slot(s) that you have installed the Hyper M.2 x16 card(s) or PCIE X4 SSD card(s) to [Hyper M.2 X16] or [PCIE X4 SSD Card] accordingly.
- 4. Save your changes and exit the BIOS Setup, then enter the BIOS Setup again.
- Go to the Advanced > Intel(R) Virtual Raid on CPU to display the Intel<sup>®</sup> Virtual Raid on CPU menu.



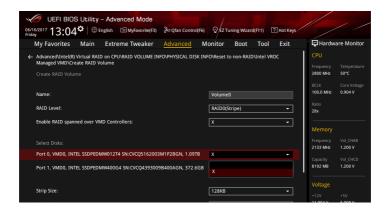
## Creating a RAID set

To create a BAID set:

 From the Intel® Virtual Raid on CPU menu, select Create RAID Volume and press <Enter>. The following screen appears:



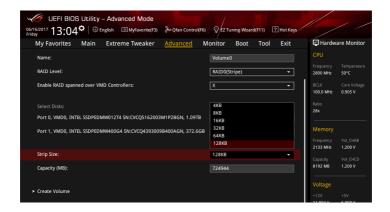
- 2. When the Name item is selected, enter a name for the RAID set and press <Enter>.
- When the RAID Level item is selected, press <Enter> to select the RAID level to create, and then press <Enter>.
- When the Enable RAID spanned over VMD Controllers item is selected, press <Enter> and select X to enable this function.
- Under Select Disks, press <Enter> and select X for the disks you want to include in the RAID set.



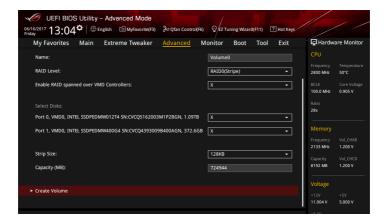
- 6. When the Strip Size item is selected, press <Enter> to select strip size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available strip size values range from 4 KB to 128 KB. The following are typical values:
  - RAID 0: 128 KB
  - RAID 10: 64 KB
  - BAID 5: 64 KB



We recommend a lower strip size for server systems, and a higher strip size for multimedia computer systems used mainly for audio and video editing.



- When the Capacity (MB) item is selected, enter the RAID volume capacity that you
  want and press <Enter>. The default value indicates the maximum allowed capacity.
- 8. When the **Create Volume** item is selected, press <Enter> to create the RAID volume and return to the Intel® Rapid Storage Technology menu.



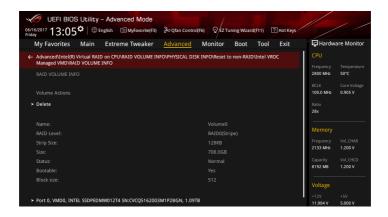
## Deleting a RAID set



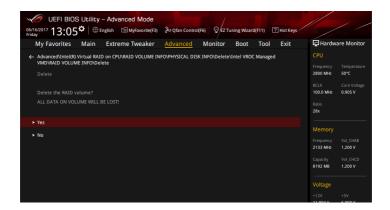
Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

#### To delete a RAID set:

1. From the Intel® Virtual Raid on CPU menu, select the RAID volume you want to delete and press <Enter>. The following screen appears:



When the **Delete** item is selected, press <Enter>, then select **Yes** to delete the RAID volume and return to the Intel® Virtual Raid on CPU menu, or select **No** to cancel.



#### Installing the RAID controller driver during Windows® 10 OS installation

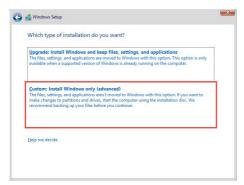
After creating the RAID sets, you are now ready to install an operating system to the independent drives or bootable array. This part provides the instructions on how to install the RAID controller drivers during OS installation.



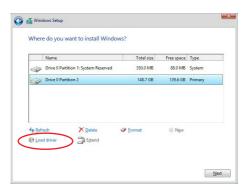
If you plan on using the CPU RAID configuration spanned across different PCIE slots as OS drives, please install the Hyper M.2 x16 cards to the supported PCIE slots. Refer to section **Expansion slots** in your motherboard's user manual for more information on the PCIE slots.

To install the RAID controller driver when installing Windows® 10 OS:

- Boot the computer using the Windows® 10 OS installation disc. Follow the screen instructions to start installing Windows® 10.
- When prompted to choose a type of installation, click Custom: Install Windows only (advanced).



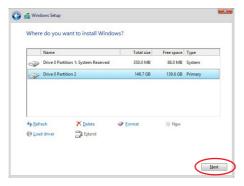
3. Click Load Driver.



4. A message appears, reminding you to insert the installation media containing the driver of the RAID controller driver. If you have only one optical drive installed in your system, eject the Windows OS installation disc and replace it with the motherboard Support DVD. Click **Browse** to continue.



- Locate the driver in the corresponding folder of the Support DVD then click OK to continue.
- 6. Select the RAID controller driver you need from the list and click Next.
- When the system finishes loading the RAID driver, replace the motherboard Support DVD with the Windows Server installation disc. Select the drive to install Windows and click Next.

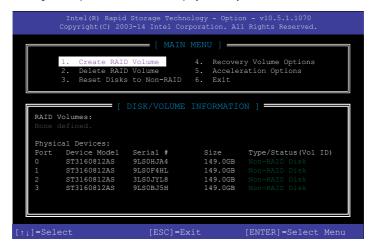


8. Setup then proceeds with the OS installation. Follow screen instructions to continue.

## 1.1.5 Intel® Rapid Storage Technology Option ROM utility

To enter the Intel® Rapid Storage Technology Option ROM utility:

- 1. Turn on the system.
- 2. During POST, press <Ctrl> + <l> to display the utility main menu.



The navigation keys at the bottom of the screen allow you to move through the menus and select the menu options.



The RAID BIOS setup screens shown in this section are for reference only and may not exactly match the items on your screen.

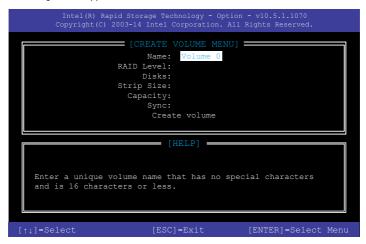


The utility supports maximum four hard disk drives for RAID configuration.

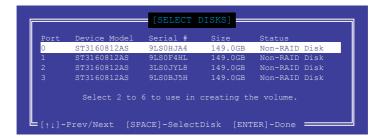
## Creating a RAID set

To create a BAID set:

From the utility main menu, select 1. Create RAID Volume and press <Enter>. The following screen appears:



- 2. Enter a name for the RAID set and press <Enter>.
- When the RAID Level item is selected, press the up/down arrow key to select a RAID level to create, and then press <Enter>.
- 4. When the Disks item is selected, press <Enter> to select the hard disk drives you want to include in the RAID set. The SELECT DISKS screen appears:



- Use the up/down arrow key to select a drive, and then press <Space> to select. A small triangle marks the selected drive. Press <Enter> after completing your selection.
- 6. Use the up/down arrow key to select the strip size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available strip size values range from 4 KB to 128 KB. The following are typical values:

RAID 0: 128 KBRAID 10: 64 KB

- RAID 5: 64 KB



We recommend a lower strip size for server systems, and a higher strip size for multimedia computer systems used mainly for audio and video editing.

- 7. When the **Capacity** item is selected, enter the RAID volume capacity that you want and press <Enter>. The default value indicates the maximum allowed capacity.
- When the Create Volume item is selected, press <Enter>. The following warning message appears:

WARNING: ALL DATA ON SELECTED DISKS WILL BE LOST.

Are you sure you want to create this volume? (Y/N)

 Press <Y> to create the RAID volume and return to the main menu, or <N> to go back to the CREATE VOLUME menu.

## Deleting a RAID set



Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

#### To delete a RAID set:

 From the utility main menu, select 2. Delete RAID Volume and press <Enter>. The following screen appears:



2. Use the up/down arrow key to select the RAID set you want to delete, and then press <Delete>. The following warning message appears:

```
[DELETE VOLUME VERIFICATION]

ALL DATA IN THE VOLUME WILL BE LOST!

(This does not apply to Recovery volumes)

Are you sure you want to delete "Volume0"? (Y/N):
```

 Press <Y> to delete the RAID set and return to the utility main menu, or press <N> to return to the DELETE VOLUME menu.

## Exiting the Intel® Rapid Storage Technology Option ROM utility

To exit the utility:

 From the utility main menu, select 6. Exit, then press <Enter>. The following warning message appears:



2. Press <Y> to exit or press <N> to return to the utility main menu.

# 1.2 Creating a RAID driver disk

## 1.2.1 Creating a RAID driver disk in Windows®

To install the RAID driver for Windows® OS:

- During the OS installation, click Load Driver to allow you to select the installation media containing the RAID driver.
- Insert the USB flash drive with RAID driver into the USB port or the support DVD into the optical drive, and then click **Browse**.



If you do not have an optical drive, you can use another computer with an optical drive to copy the RAID driver from the support DVD to a USB flash drive.

- Click the name of the device you've inserted, go to **Drivers** > **RAID**, and then select the RAID driver for the corresponding OS version. Click **OK**.
- 4. Follow the succeeding screen instructions to complete the installation.



To set up a Windows® UEFI operating system under RAID mode, ensure to load the UEFI driver for your optical drive.

# **AMD RAID Configuration**



# 2.1 RAID configurations

If your motherboard supports RaidXpert2 Configuration Utility, you can create Volume, RAIDABLE, RAID 0, RAID 1, or RAID 10 (depends on system licensing) configurations.



Please refer to your motherboard's user manual for details on the actual supported RAID configurations.



If you want to install a Windows® operating system to a hard disk drive included in a RAID set, you have to create a RAID driver disk and load the RAID driver during OS installation. Refer to section 1.2 Creating a RAID driver disk for details.

#### 2.1.1 RAID definitions

**Volume** provides the ability to link-together storage from one or several disks, regardless of the size of the space on those disks. This configuration is useful in scavenging space on disks unused by other disks in the array. This configuration does not provide performance benefits or data redundancy, disk failure will result in data loss.

**RAIDABLE** arrays (also known as RAID Ready) are a special type of Volume (JBOD) that allows the user to add more storage space or create a redundant array after a system is installed. RAIDABLE arrays are created using Option ROM, UEFI, or readm.



The ability to create RAIDABLE arrays may vary per system.

**RAID 0 (Data striping)** optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. Two hard disks perform the same work as a single drive but at a sustained data transfer rate, double that of a single disk alone, thus improving data access and storage. Use of two new identical hard disk drives is required for this setup.

**RAID 1 (Data mirroring)** copies and maintains an identical image of data from one drive to a second drive. If one drive fails, the disk array management software directs all applications to the surviving drive as it contains a complete copy of the data in the other drive. This RAID configuration provides data protection and increases fault tolerance to the entire system. Use two new drives or use an existing drive and a new drive for this setup. The new drive must be of the same size or larger than the existing drive.

**RAID 10** is data striping and data mirroring combined without parity (redundancy data) having to be calculated and written. With the RAID 10 configuration you get all the benefits of both RAID 0 and RAID 1 configurations. Use four new hard disk drives or use an existing drive and three new drives for this setup.

## 2.1.2 Installing storage devices

The motherboard supports Serial ATA hard disk drives and PCIE SSD storage devices. For optimal performance, install identical drives of the same model and capacity when creating a disk array.



Refer to Chapter 2 in your motherboard's user manual for details on installing storage devices to your motherboard.

## 2.1.3 RaidXpert2 Configuration Utility in UEFI BIOS

To enter the RaidXpert2 Configuration Utility in UEFI BIOS:

1. Enter the BIOS Setup during POST.



Refer to Chapter 3 in your motherboard's user manual for details on entering and navigating through the BIOS Setup.

2. Go to Advanced > SATA Configuration, then set SATA Mode to [RAID].



Due to chipset limitation, when SATA ports are set to RAID mode, all SATA ports run at RAID mode together.

- 3. Configure additional settings for your storage device and RAID configuration:
  - If you are using SATA storage devices, no additional settings are required.
     Please proceed to next step.
  - If you are setting up an NVMe RAID set, go to Advanced > SATA Configuration (or Advanced > AMD PBS), then set NVMe RAID mode to [Enabled].
  - If you are using Hyper M.2 x16 cards, go to Advanced > Onboard Devices
     Configuration, then set all the corresponding PCIE slots to [PCIe RAID Mode].



The Hyper M.2 x16 card is purchased separately.

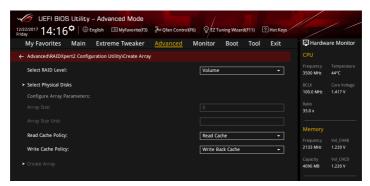
- Go to Boot > CSM (Compatibility Support Module), then set Launch CSM to [Disabled].
- 5. Save your changes and exit the BIOS Setup, then enter the BIOS Setup again.
- Go to Advanced > RaidXpert2 Configuration Utility to display the RaidXpert2 Configuration Utility menu.



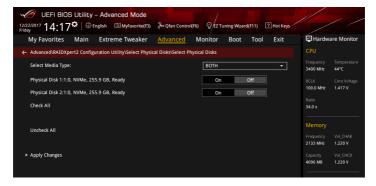
#### Creating a RAID set

To create a RAID set:

 From the RaidXpert2 Configuration Utility menu, go to Array Management > Create Array to enter the Create Array menu. The following screen appears:

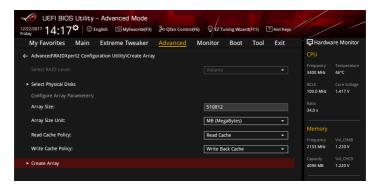


- When the Select RAID Level item is selected, press <Enter> to select the RAID level to create, and then press <Enter>.
- 3. When the **Select Physical Disks** item is selected, press <Enter> to enter the Select Physical Disks menu. The following screen appears:



 Toggle the physical disks that you want to include in the RAID set to On, then select Apply Changes and press <Enter> to complete selection.

- 5. When the **Array Size:** item is selected, enter the RAID volume capacity that you want and press <Enter>. The default value indicates the maximum allowed capacity.
- When the Array Size Unit: item is selected, press <Enter> to select the size unit for the RAID array, and then press <Enter>.
- 7. When the **Read Cache Policy:** item is selected, press <Enter> to select the read policy for the RAID array, and then press <Enter>.
- When the Write Cache Policy: item is selected, press <Enter> to select the write policy for the RAID array, and then press <Enter>.
- When the Create Array item is selected, press <Enter> to create the RAID volume and return to the Array Management menu.



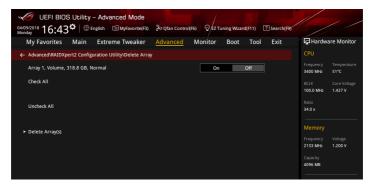
## Deleting a RAID set



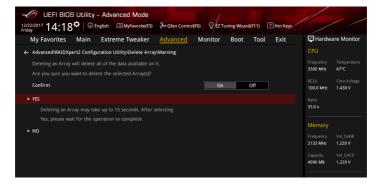
Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

#### To delete a RAID set:

 From the RaidXpert2 Configuration Utility menu, go to Array Management > Delete Array to enter the Delete Array menu. The following screen appears:



- 2. Toggle the array(s) that you want to delete to **On**.
- When the Delete Array(s) item is selected, press <Enter>, toggle the Confirm item to On, then select YES to delete the RAID volume, or select NO to cancel.



# 2.2 Creating a RAID driver disk

## 2.2.1 Creating a RAID driver disk in Windows®

#### To install the RAID driver for Windows® OS:

- During the OS installation, click Load Driver to allow you to select the installation media containing the RAID driver.
- Insert the USB flash drive with RAID driver into the USB port or the support DVD into the optical drive, and then click **Browse**.



If you do not have an optical drive, you can use another computer with an optical drive to copy the RAID driver from the support DVD to a USB flash drive.

- Click the name of the device you've inserted, go to Drivers > RAID, and then select the RAID driver for the corresponding OS version. Click OK.
- 4. Follow the succeeding screen instructions to complete the installation.



To set up a Windows® UEFI operating system under RAID mode, ensure to load the UEFI driver for your optical drive.