# **AMD RAID Installation Guide**

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#### **AMD BIOS RAID Installation Guide** 1.

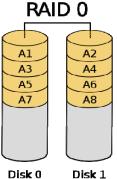
AMD BIOS RAID Installation Guide is an instruction for you to configure RAID functions by using the onboard FastBuild BIOS utility under BIOS environment. After you make a SATA driver diskette, press <F2> or <Del> to enter BIOS setup to set the option to RAID mode by following the detailed instruction of the "User Manual" in our support CD, then you can start to use the onboard RAID Option ROM Utility to configure RAID.

### 1.1 Introduction to RAID

The term "RAID" stands for "Redundant Array of Independent Disks", which is a method combining two or more hard disk drives into one logical unit. For optimal performance, please install identical drives of the same model and capacity when creating a RAID set.

#### RAID 0 (Data Striping)

RAID 0 is called data striping that optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. It will improve data access and storage since it will double the data transfer rate of a single disk alone while the two hard disks perform the same work as a single drive but at a sustained data transfer rate.



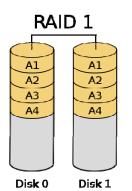
Disk 0

#### WARNING!!

Although RAID 0 function can improve the access performance, it does not provide any fault tolerance. Hot-Plug any HDDs of the RAID 0 Disk will cause data damage or data loss.

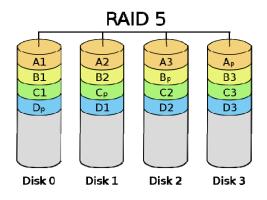
#### **RAID 1 (Data Mirroring)**

RAID 1 is called data mirroring that copies and maintains an identical image of data from one drive to a second drive. It provides data protection and increases fault tolerance to the entire system since the disk array management software will direct all applications to the surviving drive as it contains a complete copy of the data in the other drive if one drive fails.



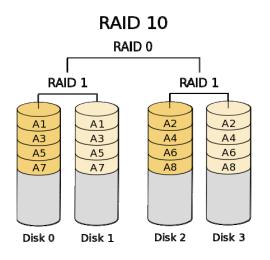
#### RAID 5 (Block Striping with Distributed Parity)

RAID 5 stripes data and distributes parity information across the physical drives along with the data blocks. This organization increases performance by accessing multiple physical drives simultaneously for each operation, as well as fault tolerance by providing parity data. In the event of a physical drive failure, data can be re-calculated by the RAID system based on the remaining data and the parity information. RAID 5 makes efficient use of hard drives and is the most versatile RAID Level. It works well for file, database, application and web servers.



#### **RAID 10 (Stripe Mirroring)**

RAID 0 drives can be mirrored using RAID 1 techniques, resulting in a RAID 10 solution for improved performance plus resiliency. The controller combines the performance of data striping (RAID 0) and the fault tolerance of disk mirroring (RAID 1). Data is striped across multiple drives and duplicated on another set of drives.



#### **1.2 RAID Configurations Precautions**

- Please use two new drives if you are creating a RAID 0 (striping) array for performance. It is recommended to use two SATA drives of the same size. If you use two drives of different sizes, the smaller capacity hard disk will be the base storage size for each drive. For example, if one hard disk has an 80GB storage capacity and the other hard disk has 60GB, the maximum storage capacity for the 80GB-drive becomes 60GB, and the total storage capacity for this RAID 0 set is 120GB.
- 2. You may use two new drives, or use an existing drive and a new drive to create a RAID 1 (mirroring) array for data protection (the new drive must be of the same size or larger than the existing drive). If you use two drives of different sizes, the smaller capacity hard disk will be the base storage size. For example, if one hard disk has an 80GB storage capacity and the other hard disk has 60GB, the maximum storage capacity for the RAID 1 set is 60GB.
- 3. Please verify the status of your hard disks before you set up your new RAID array.

#### WARNING!!

Please backup your data first before you create RAID functions. In the process you create RAID, the system will ask if you want to "Clear Disk Data" or not. It is recommended to select "Yes", and then your future data building will operate under a clean environment.

### 1.3 Legacy RAID ROM Configuration (for AMD X470, B450, X370, B350, and A320

### Chipsets)

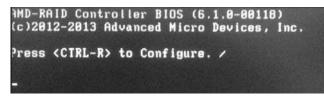
Use legacy RAID ROM to create and configure the RAID disk.

#### STEP 1: Set up UEFI

- A. During system boot, press <F2> or <Del> key to enter UEFI setup utility.
- B. Go to Advanced  $\rightarrow$  Storage Configuration.
- C. Set the "SATA Mode" option to <RAID>.
- D. Click <F10> to save to exit.

#### STEP 2: Create and configure the RAID disk

- A. During system boot, press <Ctrl+R> to enter legacy RAID ROM utility.
- B. When the appropriate prompt appears during POST, press <Ctrl+R> to enter the RAID BIOS setup utility.



To create a new array, press <Enter> on the "Create Array" option.

\*Be sure to delete the existing disk arrays before creating a new array.

AMD-RAID Array Configura Creates an array from the connected d Arrays	tion (Build: 6.1.0-00118)
	0-00,2.0TB,Ready 1-01,2.0TB,Ready
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License Level: 58	<pre><t><t><t><t><t><t><t><t><t><t><t><t><t></t></t></t></t></t></t></t></t></t></t></t></t></t></pre>

Use the arrow keys to select the hard drives to be included in the RAID array and press <Ins>. The selected hard drives will be shown in green. To use all of the hard drives, simply press <A> to select all. Then press <Enter>.

AMD-RAID Array Configu 6595FE235EEFBC7 SATA RW 1.9TB WD0 Arrays	uration (Build: 6.1.0-00118) C WD20EARX-22PASB WD-WCA2A6752732 Disks
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Use the arrow keys to select a RAID level you want. Press <Enter> to confirm your selection.

RAID1: Mirror set - puts identical d	ation (Build: 6.1.0-00118) lata on each of two disks for protection
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RAIDI Volume Raidie Raidable Raidse	Available Keys <t><t><t>&lt;+&gt;&lt;+&gt;Choose, <esc>=Back <enter>=Select Menu Item</enter></esc></t></t></t>

Use the up/down arrow key or <PAGEUP> /<PAGEDOWN> to adjust the size and press <Enter>.

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Size Chosen: 2TB Limit DOS Size: 1.9TB Exactly: 2,199,000,000,000	Available Keys <pageup><t><pagedown><t>=Change Size <enter>=Complete, <esc>=Go Back</esc></enter></t></pagedown></t></pageup>

Select a caching mode and press <Enter> to proceed.

Arrays	0-00,2.0TB,Ready 1-01,2.0TB,Ready
create Array isks: 0,1 Type: RAIDO Total Size: 3.9TB	
Caching Mode: Read/Write User Input Select Caching Mode	
<mark>Read-Write</mark> Read Only None	Available Keys <t><t><t><t><t>Choose, <esc>=Back <enter>=Select Menu Item</enter></esc></t></t></t></t></t>

Press <C> to confirm and then press <Esc> to return to the previous screen.

	guration (Build: 6.1.8-80118)
Arrays	Disks 0-00,2.0TB,Ready 1-01,2.0TB,Ready
Create Array Disks: 0,1 Type: RAID0 Total Size: 3.9TB Caching Mode: Read/Write User Input	
Confirm Creation of Array	

When completed, you will see the new array on the main screen. Press <Esc> to exit the RAID BIOS utility.

AMD-RAID Array Configur Continues booting process from where Arrays	ation (Build: 6.1.0-00118)
1RAIDO, 3.9TB, Normal(R/W)	0-00,2.0TB,0nline 1-01,2.0TB,0nline
Main Menu Initialize Disk(s) Create Array Delete Array(s) Swap Two Arrays Manage Hot Spare(s) View Disk Details View Array Details Rescan All Channels Controller Options Controller Options	
License Level: 58	<pre><t><t><t><t><t><t><t><t><t><t><t><t><t></t></t></t></t></t></t></t></t></t></t></t></t></t></pre>

#### STEP 3.1: Copy RAID driver to a USB flash drive

#### You can choose either STEP 3.1 or STEP 3.2 to finish the configuration.

- A. Please install the DVD-ROM.
- B. During system boot, press <F2> or <Del> key to enter UEFI setup utility.
- C. Plug a USB drive into one of the USB port.
- D. Insert the Support CD into the DVD-ROM drive.
- E. Go to Tools→ Easy RAID Installer
- F. Follow instructions to finish the driver copy process.

#### STEP 3.2: Download driver from ASRock's website

A. Please download the "SATA Floppy Imaged driver" from ASRock's website and unzip the file into your USB flash disk.

#### **STEP 4: Windows installation**

A. During Windows installation process, when Disk selection page show up, please click <Load Driver>.

Name		Total size	Free space Type	
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C Lord driver				

B. Click <Browse> to find the driver inside your USB flash drive.

Select	the driver to install
1	Load driver
	To install the device driver for your drive, insert the installation media containing the driver files, and then click OK. Note: The installation media can be a CD, DVD, or USB flash drive.
	Browse OK Cancel

C. For 32bit OS, the driver is under /I386 directory. For 64bit OS, the driver is under /AMD64 directly. Please select the correct driver for your Windows version (Windows 10).

Browse for Folder	
Browse to the driver, and then click OK.	
ECN Pact_CICPELASH(v1.0.17) Perf 3.1.3 win64 Link Link v0.7.3 MDA40_L0326308 MD3 OrCAO Allegro Viewer Photo Project RADD_Driver	

D. Select "AMD-RAID Bottom Device" and then click <Next>.

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- E. Click <Browse> again to find the driver inside your USB flash drive.
- F. Select "AMD-RAID Controller storport" and then click <Next>.

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G. Click <Browse> again to find the driver inside your USB flash drive.

H. Select "AMD-RAID Config Device" and then click <Next>.

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			Aller Martin
			Marillo

I. After RAID driver is loaded, the RAID disk will show up.

Name		Total size	Free space T	lype
Drive 2 Uni	illocated Space	222.5 GB	222.5 GB	
€± Befresh	Relete			

J. Please follow Windows installation instruction to finish the process.

### 1.4 UEFI RAID Configuration (for AMD X399, X470, B450, X370, B350, and A320

### Chipsets)

Set up a RAID array using UEFI Setup Utility.

### STEP 1: Set up UEFI and create a RAID array

- A. During system boot, press <F2> or <Del> key to enter UEFI setup utility.
- B. Go to Advanced  $\rightarrow$  Storage Configuration.
- C. Set the "SATA Mode" option to <RAID>.
- D. Click <F10> to save to exit.
- E. (This step is only for NVMe RAID on X399 chipset):

Go to Advanced→AMD PBS and set "NVMe RAID mode" to <Enabled >. Then click <F10> to save to exit.



F. Go to Boot→CSM and set "Launch Storage OpROM policy" to <UEFI only>.



G. Go to Advanced→RAIDXpert2 Configuration Utility→Array Management→Create Array →Select Physical

 $\mathsf{Disks}{\rightarrow}\mathsf{Check}\;\mathsf{All}{\rightarrow}\mathsf{Apply}\;\mathsf{Changes}{\rightarrow}\mathsf{Create}\;\mathsf{Array}.$ 

\*Be sure to delete the existing disk arrays before creating a new array.



H. Click <F10> to save to exit.

#### STEP 2.1: Copy RAID driver to a USB flash drive

#### You can choose either STEP2.1 or STEP2.2 to finish the configuration.

- A. Please install the DVD-ROM.
- B. During system boot, press <F2> or <Del> key to enter UEFI setup utility.
- C. Plug a USB drive into one of the USB port.
- D. Insert the Support CD into the DVD-ROM drive.
- E. Go to Tools→ Easy RAID Installer
- F. Follow instructions to finish the driver copy process.

#### STEP 2.2: Download driver from ASRock's website

A. Please download the "SATA Floppy Imaged driver" from ASRock's website and unzip the file into your USB flash disk.

#### **STEP 3: Windows installation**

A. During Windows installation process, when Disk selection page show up, please click <Load Driver>.

		Total size	Free space Type	
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B. Click <Browse> to find the driver inside your USB flash drive.

elect	the driver to install
	Load driver
	To install the device driver for your drive, insert the installation media containing the driver files, and then click OK. Note: The installation media can be a CD, DVD, or USB flash drive.
	Browse

C. For 32bit OS, the driver is under /I386 directory. For 64bit OS, the driver is under /AMD64 directly. Please select the correct driver for your Windows version (Windows 10).

Browse for Folder	
Browse to the driver, and then dick OK.	Mathania -
ECN Pac_JCPFLASH(v1.0.17) Perf 3.1.3 wn64 Link Link v0.7.3 MDA40_10326308 MP3 OrCAD Allegro Viewer Photo Project RAID_Driver	

D. Select "AMD-RAID Bottom Device" and then click <Next>.

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- E. Click <Browse> again to find the driver inside your USB flash drive.
- F. Select "AMD-RAID Controller storport" and then click <Next>.

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AMD-RAID Controller (storport) (D//RAID_Driver/vcraid.inf)	
U.S.	
Hide drivers that aren t compatible with this computer's hardware.	

- G. Click <Browse> again to find the driver inside your USB flash drive.
- H. Select "AMD-RAID Config Device" and then click <Next>.

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J. Please follow Windows installation instruction to finish the process.

## 2. AMD Windows RAID Installation Guide

### Using RAIDXpert2 to Create RAID Array in Windows

1. Execute RAIDXpert2 in the Windows Programs menu.



2. When the login screen appears, type "admin" in the Login ID field. Type "admin" again in the Password field.

AMD RAIDXpert2 - Windows Internet Explorer		
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🕐 Intranet settings are now turned off by default. Intranet settings are	eless secure than Internet settings. Click for options	×
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3. Create new username and password. Then log in to RAIDXpert with new username & password.

AMD RAIDXpert2 - Windows Internet Explorer		
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4. Be sure to delete the existing disk arrays before creating a new array.

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5. To create array, Click on Array  $\rightarrow$  Create.

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6. Select the disks to be included in the RAID array.

Select Array Type

Enter Array Name & Array Size. Then click Create to create a RAID array.

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7. Check if the array is created successfully.

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8. In Disk Management, create partition and initialize the disk as GPT.

