# 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, A320 and A300

# 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 "PT 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.

Creates an array from the connec	iguration (Build: 6.1.0-00118)
Arrays ———	0-00,2.0TB,Ready 1-01,2.0TB,Ready
Main Menu	
Delete Array(s) Swap Two Arrays Manage Hot Spare(s) View Disk Details	
View Array Details Rescan All Channels Controller Options Continue to Boot	Available Keys
License Level: 50	<pre>(1)&lt;4)&lt;+&gt;&lt;+&gt;=Choose, <esc>=Back <enter>=Select Menu Item</enter></esc></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 Configuration (Build: 6.1.0-00118) 6595FE235EEFBC7 SATA RW 1.9TB WDC WD20EARX-22PASB WD-WCA2A6752732 Arrays Disks			
ni 1 úgo	0-00,2.0TB,Ready 1-01,2.0TB,Ready		
Create Array			
Disks: 0,1			
User Input			
Select Disks to Use			
	Available Keys <t><t><t><t>Choose, <esc>=Back <ins>=Select, <a>=All, <enter>=Done</enter></a></ins></esc></t></t></t></t>		

Use the arrow keys to select a RAID level you want. Press <Enter> to confirm your selection.

AMD-RAID Array Configuration (Build: 6.1.0-00118) RAID1: Mirror set - puts identical data on each of two disks for protection Arrays				
in rwys	0-00,2.0TB,Ready 1-01,2.0TB,Ready			
Disks: 0,1 Type: RAID1				
User Input Select Array Type to Create RAIDS RAIDION <u>RAIDE</u> RAIDIN				
RAIDI Volume RAIDIO RAIDABLE RAIDSO	Available Keys <t><t>&lt;+&gt;=Choose, <esc>=Back <enter>=Select Menu Item</enter></esc></t></t>			

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

AMD-RAID Array Configura	
Arrays	Disks 0-00,2.0TB,Ready 1-01,2.0TB,Ready
Create Array Disks: 0,1 Type: RAID0 Total Size: 2.1TB	
Choose Size to Make Array	
Size Chosen: 2TB Limit DOS Size: 1.9TB Exactly: 2,199,000,000,000	Available Keys <paceup><t><pacedowh><i>=Change Size <enter>=Complete, <esc>=Co Back</esc></enter></i></pacedowh></t></paceup>

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

Arrays	Disks
Create Array Disks: 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>&lt;+&gt;=Choose, <esc>=Back <enter>=Select Menu Item</enter></esc></t>

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

AMD-RAID Array Configuration (Build: 6.1.0-00118)				
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 Configura	tion (Build: 6.1.0-00118)				
Continues booting process from where BIOS entered					
Arrays —	Disks				
1RAIDO, 3.9TB, Normal(R/W)	0-00,2.0TB,Online				
	1-01,2.0TB,Online				
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					
Continue to Boot	Available Keys				
	<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>				
License Level: 50	<enter>=Select Menu Item</enter>				

#### 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 Rack's website

Please download the "SATA Floppy Imaged driver" from ASRock Rack'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	
47 Refresh	Delete	<u>Eormat</u>	New	
	Extend			

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

Select the driver to in:	stall
Load driver	<u> </u>
driver files, and	evice driver for your drive, insert the installation media containing the then click OK. Illation media can be a CD, DVD, or USB flash drive.
	Browse OK Cancel
Hide anvers that aren t co	impaciole with this computer's naroware.

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			6-94h A
Browse to the driver,	and then dick OK.		15722
iPerf 3. Link Link MDA40 MP3	_10326308 Allegro Viewer	Î.	

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

🕒 🗳 Windows Setup	X
Select the driver to install	
AMD-RAID Bottom Device (D\RAID_Driver\rcbottom.inf)	the states
AMD-RAID Bottom Device (D:\RAID_Driver\rcbottom.inf())	Garry Carry
	Marte Conta
	GIAN COLOR
	111111 1973
	111111/1885
Hide drivers that aren't compatible with this computer's hardware.	
Brgwse Rescan	Next

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

Device (D:\RAID_Driver\rcbottom.inf)	
Device (D:\RAID_Driver\rcbottom.inf) ler [storport] (D:\RAID_Driver\rcraid.inf)	
0	

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

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

🖉 🔏 Windows Setup	L <u>Z</u>
Select the driver to install	
AMD-RAID Bottom Device (D:\RAID_Driver\rcbottom.inf) AMD-RAID Bottom Device (D:\RAID_Driver\rcbottom.inf)	
AMD-RAID Bottom Device (D:\RAID_Driver\rccbottom.inf)	
AMD-RAID Controller [storport] (D:\RAID_Driver\rcraid.inf)	
	19 11 5 16 1 H . A.
Hide drivers that aren't compatible with this computer's hardware.	
	E
Browse Bescan	Next
DITARSE	Tievr

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

Name		Total size	Free space Type
Drive 2 Una	Illocated Space	222.5 GB	222.5 GB
eresh	Delete	Format	* Ngw

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

# 1.4 UEFI RAID Configuration (for AMD X399, X470, B450, X370, B350, A320 and A300

## 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 "PT SATA Mode" option to <RAID>
- D. (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.



E. Go to Boot → CSM(Compatibility Support Module) → Set the CSM option to <Enable> → Set "Launch Storage OpROM Policy" to <UEFI only>.



CSM	[Enabled]	Select UEFI only to run those
Launch PXE OpROM Policy Launch Storage OpROM Policy Launch Video OpROM Policy	[Legacy only] [UEFI only] [Legacy only]	that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.
UE	Launch Storage OpROM Po. not launch FI only gacy only	Select Screen Select Item
-		r: Select +/-: Change Option
		F1: General Help F7: Discard Changes F9: Load UEFI Defaults F10: Save and Exit
		ESC: Exit

- F. Click <F10> to save to exit.
- Go to Advanced → RAIDXpert2 Configuration Utility → Array Management → Create Array → Select Physical
   Disks → Check All → Apply Changes → Create Array.

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

Main Advanced Server Mgmt Security Boot Exit	American Megatrends, Inc.
CFU Configuration     Chipset Configuration     Storage Configuration     ACPT Configuration     ACPT Configuration     Super 10 Configuration     HVH Monitor     HVH CBS     AMD CBS     AMD CPS     KATOXpert2 Configuration Utility     UEFI Update Utility	Select to configure RAIDXpert2 controller
▶ Instant Flash	↔: Select Screen 14: Select Item Enter: Select +/-: Change Option F1: General Heip F7: Discard Changes F3: Load UEF1 Defaults F10: Save and Exit ESC: Exit

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 Rack's website

A. Please download the "SATA Floppy Imaged driver" from ASRock Rack'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>.

Name		Total size	Free space Type	
** Refresh	<u>N</u> elete	Eormat	New	

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

Select	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 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 F	older		HALL A
Browse to th	e driver, and then dick OK.		57427
> > > > >	ECN Fac_ICPFLASH(v1.0.17) Perf 3.1.3 win64 Link Link v0.7.3 MDA40_I0326308 MP3 OrCAD Allegro Viewer Photo Project RAID_Driver	Î.	

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

🕒 🔏 Windows Setup	X
Select the driver to install	
AMD-RAID Bottom Device (DNRAID_Driver) robottom infi	
AMD-RAID Bottom Device (D:\RAID_Driver\rcbottom.inft	1201220
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Hide drivers that aren't compatible with this computer's hardware.	
Estime unversione une aren companie man uns compare sinatumare.	
Browse Rescan	Next

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

ice (D:\RAID_Driver\rcbottom.inf)	
ice (D:\RAID_Driver\rcbottom.inf) torport] (D:\RAID_Driver\rcraid.inf)	
C	

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

AMD-RAID Bot	tom Device (D:\RAID_Driver\rcbott	om.inf)	
AMD-RAID Bot	tom Device (D:\RAID_Driver\rcbott	om.inf)	
	nfig Device (D:\RAID_Driver\rccfg.in		
AMD-RAID Co	ntroller [storport] (D:\RAID_Driver\re	craid.inf)	

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

Name		Total size	Free space T	уре
Drive 2 Una	allocated Space	222.5 GB	222.5 GB	Contraction of
** Befresh	Delete	Eormat	* Ngw	

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 ar	e less secure than Internet settings. Click for options	×
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	😂 Internet   Protected Mode: On 🏻 🖓 💌 🎕 100%	•

3. Create new username and password. Then log in to RAIDXpert with new username & password.

AMD RAIDXpert2 - Windows Internet Explorer		_ 🗆 X
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4.	Be sure to delete the existing disk arrays before creating a new array.
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	02	2.0078	60 SATA NCQ			WD20EARX-22PA580	WD-WCAZ46752732	51.0A851	2.00TB	2.00TB	48bit NCQ FPDMA W				
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# 5. To create array, Click on Array $\rightarrow$ Create.

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Transform		Disk 🗢	Capacity	Port Type	GS	State	Model	Serial No.	Firmware	Space Available	Largest Available		Feature	s			
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ound Array Scan •		02	2.0078	6G SATA NCQ	No		IC WD20EARX-22PA580	WD-WCAZ46752732	51.04851	2.00TB	2.00TB		DMA WriteC Re				
Cache Settings +		03	2.00TB	6G SATA NCQ	No	Onane wi	C WD20EARX-008F80	WD-WCAZAH104306	51.04851	2.00TB	2.00TB	48bit NCQ FP	UMA WYIEEC He	NGC.			
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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.

AMD RAIDXpert2 - Windows Internet Explorer												
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Intranet settings are now turned off by default. Intranet set	ettings are less secure than 1	ternet settings.	Click for options									×
A RAIDO	AMD RAIDXper	12 Disk Devices										
DISK 0 2	8 Disk 🕏	Capacity	Port Type	GS	State	Jses Model	Serial No.	Firmware	Space Available	Largest Available	e Features	
L DISK 0 3	02	2.0078	6G SATA NCQ	No	Online	0 WDC WD20EARX-22PAS80	WD-WCA2A6752732	51.04851	2.0078	2.0078	48bit NCQ FPDMA WriteC ReadC	
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						Capacity: 4193977	MB					
						Additional Options:						
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						🗏 Background Array S	can					
						Skip Initialize (Not R	.ecommended)					
						Leave Existing Data I	Intact					
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7. Check if the array is created successfully.

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An			'iew	Optio			Help											
AMD-R	AID	AND RAIDS	pert2 Disk Dev	i at														
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Arra	ay 2 RAIDO	00	2.0078	6G SATA NCQ			WD20EARX-22PA6B0	WD-WCAZ46760867	51.04851 51.04851	0.00M8	0.00MB	48bit NCQ FPD						
# BR	AID0 Disk 0 2 (WDC WD20EARX-22PASB0)	02	2.00TB 2.00TB	6G SATA NCQ 6G SATA NCQ	No		WD20EARX-22PA580 WD20EARX-008F80	WD-WCAZA6752732 WD-WCAZAH104306	51.04851	8W00.0	0.00MB 0.00MB	48bit NCQ FPD 48bit NCQ FPD						
	Disk 0 2 (WDC WD20EARX-02FASB0)	0.3	2.0015	60 SALANCU	NO	Unone wu	WD20EAKX-008760	WD-WCALATIO4308	51.04051	000000	0.0045	400IE NUQ PPU	MA WITTEL HEB	ac				
		Device				Type	Total Capacity	State	Task	Task State	Progress	Pri	Scan	Cache				
		Davis	· Buttle	Arrand	huno	Tune	Total Capacity	State	Tark	Tark State	Browner	Rei	6430	Carbo				
		1	C:	NON	E	VOLUME	2.0078	NORMAL	NOT ACTIVE	NOT ACTIVE	0%	9	No	RW				
		2		RAID	0	RAIDO	4.0078	NORMAL	NOT ACTIVE	NOT ACTIVE	0%	10	No	RW				
oller Ever	ntLog																	-
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8. In Disk Management, create partition and initialize the disk as GPT.

E Computer Management							<u> </u>			
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🛃 Computer Management (Local				Status	Actions					
System Tools P Task Scheduler	(C:)		asic NTFS asic NTFS		t, Page File, Crash Dump, Primary Partiti nary Partition)	on) 75 17	Disk Management 🔺			
Event Viewer     Shared Folders     Solution     Second Users and Groups     Performance     Device Manager     Storage	System Reserved			Healthy (Syst	More Actions					
Disk Management							Initialize Disk			
Figure 2 Services and Applications.	1862.49 GB	System R. 100 MB N <sup>*</sup> Healthy (S	(Ca) 79-90 GB NTFS Healthy (Boot, Pa	ige File, Crast		You must initialize a disk before Logical Disk Manager can access it. Select disks: ☑ Disk 1 Use the following partition style for the selected disks: ◎ MBR (Master Bock Record) ◎ GPT (GUID Partition Table) Note: The GPT partition regonized by all previous ventions of Windows, it is incommended for disks languet than 2TE, or disks used on				
	Disk 1     Unknown     3724.98 GB     Not Initialized	3724.98 GB Unallocated	1			tanium-based computers.	OK Cancel			
< <u> </u>	Unallocated F	<sup>9</sup> rimary part	ition							