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Contents

List of T	ables	4
Revision	History	5
Chapter	1 General Information	6
1.1	Purpose	6
1.2	System Requirements	6
1.3	Generic System Setup	7
Chapter	2 BOOTABLE ARRAYS	8
2.1	Copy AMD-RAID Drivers to a Removable Storage Medium: Windows®	8
Chapter	3 Pre-Installation Steps	9
3.1	Enable RAID for the x570/590 AMD Socket AM4-Compatible Processors	9
3.2	Enable RAID for the 300/400/500 AMD Socket AM4-Compatible Processors	10
3.3	Enable RAID for the AMD SP3-Series Chipsets	11
3.4	Enable RAID for the AMD Socket AM4-Compatible Processors	12
Chapter	4 Create the Bootable Virtual Disk	14
4.1	RAIDXpert2 Configuration Utility (HII Mode) For the AMD Ryzen TM Desktop Processor	14
4.2	RAIDXpert2 Configuration Utility (HII Mode) For the AMD Ryzen TM SP3-Series Processor	15
4.3	UEFI Mode	16
Chapter	5 Install AMD-RAID Drivers	17
5.1	Windows®: Install AMD-RAID Drivers during Windows® OS Installation	17
Chapter	6 Install the AMD-RAIDXpert2 Management Suite and Web GUI	19
6.1	Windows® – AMD-RAIDXpert2 Management Suite	19
6.1.	Windows® – AMD-RAIDXpert2 Management Suite Installation (Using Installer)	19
6.1.3	2 Windows® – AMD RAIDXpert2 Management Suite Installation (Manually)	19

AMD NVMe/SATA RAID Quick Start Guide for Windows® Operating Systems

56268 Rev. 1.03 August 2019

List of Tables

Table 1. System Requirements	6
Table 2. Information about Supported Configuration by Installer	7

Revision History

Date	Revision	Description	
August 2019	1.03	Second public release. Updated steps in Chapter 3. Updated title in Chapters 4. Updated 6.1 and 6.1.1.	
April 2018	1.02	First public release.	
March 2018 1.01 2 nd NDA release. Updated Supported Configuration and minor edits.			
February 2018	1.00	Initial NDA release.	

Chapter 1 General Information

1.1 Purpose

This Quick Start Guide is designed to assist with system setup in **RAID Mode**, by performing these general procedures:

- Copy AMD RAID device drivers to removable storage media for the following operating systems:
 - o Microsoft® Windows 10 x64
- Load AMD RAID device drivers on a system at the time during Windows operating system installation.
- Install the AMD-RAIDXpert2 (Web GUI) for RAID array management

1.2 System Requirements

Table 1. System Requirements

Component	Requirements		
Memory (RAM)	Minimum: 2 at 8 GB, for a total of 16 GB		
	Recommended: 4 at 8 GB, for a total of 32 GB		
Hard Disk	One to Fourteen SATA HDD's, SATA SSD's or NVMe		
Max number of NVMe devices	10		
Max Controller Count	11 (Two controllers with Device ID 0x7917, one controller with device ID 0x43BD and NVMe (one controller per NVMe)		
	11 (One controller with Device ID 0x7916, one controller with device ID 0x43BD and NVMe (one controller per NVMe)		
Supported AMD Chipsets	3rd Gen AMD Ryzen™ Desktop Processor 2nd Gen AMD Ryzen™ Threadripper™ Processor 2nd Gen AMD Ryzen™ Desktop Processor AMD Ryzen™ Threadripper™ Processor AMD Ryzen™ Desktop Processor		
	AMD Ryzen™ Desktop Processor with Radeon™ Vega Graphics		
Supported AMD Processors	AMD X470 Chipset AMD X399 Chipset AMD B450 Chipset AMD X370 Chipset AMD B350 Chipset AMD A320 Chipset AMD X570 Chipset		

Table 2. Information about Supported Configuration by Installer

SoC SATA Mode	Promontory SATA Mode	NVMe RAID Mode	SATA RAID Support	NVMe RAID Support
AHCI / Auto	AHCI / Auto	Disabled	No	No
RAID	RAID	Enabled	Yes	Yes

Maximum Device Support:

Max support of 14 including both NVMe and SATA

1.3 Generic System Setup

A generic system setup process is described below.

- 1. Copy the **AMD-RAID** drivers to a removable storage medium. (*Refer to Section 2.1*)
- 2. Power-on the system.
- 3. Access the platform BIOS window for the system
 - a. RAID Mode shall be enabled on the system after Configuring BIOS settings as mentioned in Section 3.1.
 - b. This enables the loading of the **AMD-RAID** UEFI driver
- 4. Initialize the disks, using the RAIDXpert2 Configuration Utility (HII) or UEFI shell.
- 5. Create arrays, using the HII Configuration Utility or UEFI shell. (Refer to Section 4.1)
- 6. Load the **AMD-RAID** drivers during the operating system installation. (*Refer to Section* 5.1).
- 7. Complete the rest of the operating system installation.
- 8. Install the OS RAID Management Suite (AMD RAIDXpert2). (Refer to Section 6.1)

IMPORTANT: To protect your data; always perform a backup prior to installing any new, major hardware or software. If you are adding NVMe as RAID to your existing RAID arrays then update all existing RAID controller drivers to latest version and reboot the system. Later connect NVMe and install RAID driver on the NVMe devices or download driver software from vendor support page.

Chapter 2 BOOTABLE ARRAYS

Note: Before beginning, Have the Windows® operating system installation media available and ready to install.

Note: Windows: Removable storage (Flash Drive) required for Copying AMD-RAID drivers

2.1 Copy AMD-RAID Drivers to a Removable Storage Medium: Windows®

A removable storage medium is needed to copy **AMD RAID** drivers required for OS installation onto an **AMD-RAID** bootable array.

1. Power-on the system.

8

- 2. Locate and use a system that is running a Windows operating system and has a CD DVD drive or an I/O port for removable storage media (such as a USB flash drive).
- 3. Insert the storage medium into the system: Windows 10: Connect a USB flash drive to a USB I/O port, or insert a blank CD-DVD disk into the applicable drive.
- 4. Go to a browser and access the web site of your system supplier or motherboard vendor.
- 5. Download the AMD-RAID drivers from the web site to the appropriate removable storage medium.
- 6. Proceed to Windows Install and load AMD-RAID drivers during a Windows OS installation.

Chapter 3 Pre-Installation Steps

3.1 Enable RAID for the x570/590 AMD Socket AM4-Compatible Processors

Note: The steps to configure a system to RAID mentioned here are specific to AMD NDA BIOS based off the AMI BIOS.

- 1. Power-ON the system
- 2. Press **ESC** to enter the System BIOS setup page
- 3. In the BIOS setup:
 - a. Select the Advanced tab
 - b. Select CSM Configuration, then press Enter
 - c. Set CSM Support to Enabled, then press Enter
 - d. Set **Boot option filter** to **UEFI** only, then press **Enter**
 - e. Set Storage to UEFI, then press Enter
- 4. In the BIOS setup:
 - a. Select the **Advanced** tab
 - b. Select AMD CBS, then press Enter
 - c. Select FCH Common Options, then press Enter
 - d. Select SATA Configuration Options, then press Enter
 - e. Set SATA Enable to Enabled, then press Enter
 - f. Set SATA Mode to RAID, then press Enter
- 5. In the BIOS setup:
 - a. Select the **Advanced** tab
 - b. Select **AMD CBS**, then press **Enter**
 - c. Select **X570/590 Chipset Common Options**, then press **Enter**
 - d. Select X570/590 Chipset SATA Configuration Options, then press Enter
 - e. Set X570/590 Chipset SATA0 Enable to Enabled, then press Enter
 - f. Set X570/590 Chipset SATA1 Enable to Enabled, then press Enter
 - g. Set X570/590 Chipset SATA Mode to RAID, then press Enter
- 6. In the **BIOS** setup:
 - a. Select the **Advanced** tab
 - b. Select AMD PBS tab, then press Enter

- c. Set the NVMe RAID Mode to Enabled, then press Enter
- 7. Save (**F4**) the settings and restart the system.

3.2 Enable RAID for the 300/400/500 AMD Socket AM4-Compatible Processors

Note: The steps to configure a system to RAID mentioned here are specific to **AMD NDA BIOS** based off the **AMI BIOS**.

- 1. Power-ON the system
- 2. Press **ESC** to enter the **System BIOS** setup page
- 3. In the BIOS setup:
 - a. Select the **Advanced** tab
 - b. Select CSM Configuration, then press Enter
 - c. Set CSM Support to Enabled, then press Enter
 - d. Set **Boot option filter** to **UEFI** only, then press **Enter**
 - e. Set Storage to UEFI, then press Enter
- 4. In the BIOS setup:
 - a. Select the **Advanced** tab
 - b. Select **AMD-CBS**, then press **Enter**
 - c. Select FCH Common Options, then press Enter
 - d. Select SATA Configuration Options, then press Enter
 - e. Set SATA Enable to Enabled, then press Enter
 - f. Set SATA Mode to RAID, then press Enter
- 5. In the BIOS setup:
 - a. Select the Advanced tab
 - b. Select **AMD-CBS**, then press **Enter**
 - c. Select 300/400/500 Chipset Common Options, then press Enter
 - d. Select 300/400/500 Chipset SATA Configuration Options, then press Enter
 - e. Set SATA Mode to RAID, then press Enter
- 6. In the BIOS setup:
 - a. Select the **Advanced** tab
 - b. Select **AMD-PBS**, then press **Enter**
 - c. Set NVMe RAID Mode to Enabled, then press Enter
- 7. Save (**F4**) the settings and restart the system.

3.3 Enable RAID for the AMD SP3-Series Chipsets

Note: The steps to configure a system to RAID mentioned here are specific to **AMD NDA BIOS** based off the **AMI BIOS**.

- 1. Power-ON the system.
- 2. Press **Delete** or **ESC** to enter the **System BIOS** setup page.
- 3. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select the **AMD PBS** tab, then press **Enter**.
 - c. Set NVMe RAID Mode to Enabled.
- 4. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select the AMD CBS tab, then press Enter.
 - c. Select FCH Common Options, then press Enter.
 - d. Select SATA Configuration Options, then press Enter.
 - e. Set SATA Controller to Enabled.
- 5. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select the **AMD CBS** tab, then press **Enter**.
 - c. Select FCH Common Options, then press Enter.
 - d. Select SATA Configuration Options, then press Enter.
 - e. Set SATA Mode to RAID.
- 6. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select **Promontory Common Options**, then press **Enter**.
 - c. Select **PT SATA Configuration Options**, then press **Enter**.
 - d. Set PT SATA Port Enable to Enabled.
- 7. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select **Promontory Common Options**, then press **Enter**.
 - c. Select PT SATA Configuration Options, then press Enter.
 - d. Set PT SATA Mode to RAID.
- 8. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.

- b. Select CSM Configuration, then press Enter.
- c. Set CSM Support to Enabled.
- 9. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select **CSM Configuration**, then press **Enter**.
 - c. Set **Boot Option Filter** to **UEFI Only**.
- 10. In the BIOS setup:
 - a. Select the **Advanced** tab, then press **Enter**.
 - b. Select **CSM Configuration**, then press **Enter**.
 - c. Set Storage > UEFI.
- 11. Save (**F4**) the setting and restart the system.

3.4 Enable RAID for the AMD Socket AM4-Compatible Processors

Note: The steps to configure a system to RAID mentioned here are specific to **AMD NDA BIOS** based off the **Insyde BIOS**.

- 1. Press **ESC** to enter the **System BIOS** setup page
- 2. Select **Setup Utility**, then press **Enter**
- 3. In the BIOS setup:
 - a. Select the Advanced tab
 - b. Select **IDE Configuration**, then press **Enter**
 - c. Set SATA Configure As to RAID, then press Enter
 - d. Set Force **RAID Mode** to **Enabled**, then press **Enter**
- 4. In the BIOS setup:
 - a. Select the **Boot** tab
 - b. Set **Boot Type** to **Dual** or **UEFI Boot Type**, then press **Enter**
 - c. Set EFI Device First to Enable, then press Enter
- 5. In the BIOS setup:
 - a. Select the **AMD-PBS** tab
 - b. Set NVMe RAID Mode to Enabled, then press Enter
- 6. In the BIOS setup:
 - a. Select the AMD-CBS tab
 - b. Select SATA Configuration Options, then press Enter
 - c. Set SATA Controller to Enabled, then press Enter

- d. Set SATA Mode to RAID, then press Enter
- 7. In the BIOS setup:
 - a. Select the AMD-CBS tab
 - b. Select Promontory Common Options, then press Enter
 - c. Select PT SATA Configuration Options, then press Enter
 - d. Set PT SATA Port Enable to Enabled, then press Enter
 - e. Set PT SATA Mode to RAID, then press Enter
- 8. Save (F10) the settings, then restart the system.

Chapter 4 Create the Bootable Virtual Disk

4.1 RAIDXpert2 Configuration Utility (HII Mode) For the AMD RyzenTM Desktop Processor

Note: The steps to configure arrays in RAID mode mentioned here are specific to AMD NDA BIOS based off Insyde BIOS.

- 1. Power-on the system.
 - a. Press ESC to get into the Platform BIOS
 - b. Select Device Management, then press Enter
 - c. Select RAIDXpert2 Configuration Utility, then press Enter
- 2. At the RAIDXpert2 Configuration Utility's Main Menu, use the **arrow keys** to select **Array Management**, then press **Enter**
- 3. Use the arrow keys to select Create Array, then press Enter
- 4. Select RAID Level, then press Enter

From the Select RAID Level drop down menu, use the **arrow keys** to select the desired **RAID** level, then press **Enter**

- 5. Select the disks with which to create the array:
 - a. Use the arrow keys to select **Select Physical Disks**, then press **Enter**
 - b. To select individual disks, highlight a disk with the arrow keys and press the **Space Bar** or **Enter**. Any number of disks may be selected using this method
 - c. To select all disks, use the **arrow keys** to select **Check All**, then press **Enter**
 - d. Use the arrow keys to select Apply Changes, then press Enter
- 6. Select an array size by doing the following:
 - a. Use the arrow keys to select Array Size, then press Enter
 - b. The Array size will default to the Maximum size allowed by the number of physical disks and RAID level selected. If you want a smaller size Array size, enter the desired value.
 - c. Press **Enter** when the desired size is reached.
- 7. Use the arrow keys to select **Cache Tag Size**
 - a. Any Array with only HDD/SSD will have default CTS of 64 k
 - b. Any Array with only NVMe or NVMe with HDD/SSD will have default CTS of 256 k
- 8. Using the arrow keys to select Read Cache Policy, then press Enter
 - a. Select the desired **Read Cache Policy**, then press **Enter**
- 9. Using the arrow keys to select Write Cache Policy, then press Enter

- a. Select the desired Write Cache Policy, then press Enter
- 10. Use the arrow keys to select Create Array, then press Enter
- 11. After completion of array creation save and reboot the BIOS

4.2 RAIDXpert2 Configuration Utility (HII Mode) For the AMD RyzenTM SP3-Series Processor

Note: The steps to configure arrays in RAID mode mentioned here are specific to AMD NDA BIOS and are based off AMI BIOS.

- 1. Power-on the system.
 - a. Press ESC or DEL to get into the Platform BIOS
 - b. Select the **Advanced** tab
 - c. Select RAIDXpert2 Configuration Utility, then press Enter
- 2. At the RAIDXpert2 Configuration Utility's Main Menu, use the arrow keys to select Array Management, then press Enter
- 3. Use the arrow keys to select Create Array, then press Enter
- 4. Select RAID Level, then press Enter
 - a. From the **Select RAID Level** drop down menu, use the **arrow keys** to select the desired RAID level, then press **Enter**
- 5. Select the disks with which to create the array:
 - a. Use the arrow keys to select Select Physical Disks, then press Enter
 - b. To select individual disks, highlight a disk with the **arrow keys** and press the **Space Bar** or **Enter**. Any number of disks may be selected using this method
 - c. To select all disks, use the **arrow keys** to select **Check All**, then press **Enter**
 - d. Use the arrow keys to select Apply Changes, then press Enter
- 6. Select an array size by doing the following:
 - a. Use the **arrow keys** to select **Array Size**, then press **Enter**
 - b. The Array size will default to the Maximum size allowed by the number of physical disks and RAID level selected. If you want a smaller size Array size, enter the desired value.
 - c. Press **Enter** when the desired size is reached.
- 7. Use the arrow keys to select **Cache Tag Size**
 - a. Any Array with only HDD/SSD will have default CTS of 64 k
 - b. Any Array with only NVMe or NVMe with HDD/SSD will have default CTS of 256 k
- 8. Using the arrow keys to select Read Cache Policy, then press Enter
 - a. Select the desired Read Cache Policy, then press **Enter**
- 9. Using the arrow keys to select Write Cache Policy, then press Enter

- a. Select the desired Write Cache Policy, then press Enter
- b. Use the arrow keys to select Create Array, then press Enter
- 10. After completion of array creation save and reboot the BIOS

4.3 UEFI Mode

- 1. At the system's Power-On Self-Test (POST) screen, press F7 / F12 / ESC (or similar) to access the UEFI Configuration Utility (aka UEFI Boot Manager).
- 2. Boot to the EFI Internal shell

Note: obtain the readm.efi file from your system supplier or motherboard vendor and copy it onto a UEFI flash drive, in the root directory.

- 3. Enter **fsx:** where x is the number of the UEFI Flash Drive.
- 4. Use readm to create the desired Boot Virtual Disk.

Examples:

Note: the user may have to press the page up key to see more of the information.

a. Query the devices connected in the system: (Output will display the UEFI Version, physical devices and arrays)

b. Create a RAID1 on disks 2, 3 with a max size available and enables Read/Write Cache – default cache setting.

```
rcadm.efi -C -r1 -d 2 3
```

c. Create a RAID0 on disks 1, 2 with a size of 100 Gbs and enables Read Cache:

d. Create a RAID10 on disks 1, 2, 3, 4 with a size of 125 Gbs and enables Write Cache:

Chapter 5 Install AMD-RAID Drivers

5.1 Windows®: Install AMD-RAID Drivers during Windows® OS Installation

Install the AMD-RAID drivers during Windows 10 OS Installation

Note: The windows described in this guide are typical. Path names and text can vary, depending on user-designated selections and other parameters.

Note: NVMe devices will be listed in the "Where do you want to install Windows?", do not delete any of the partitions or format the NVMe devices. Doing so will delete the AMD-RAID metadata and the desired RAID level will be deleted. Once the AMD-RAID drivers (rcbottom and rcraid) have been loaded, a valid AMD-RAID Virtual Disk will appear.

- 1. Power-on the system. Create a bootable array, see Chapter 4.
- 2. Insert the Microsoft Windows operating system CD-ROM or DVD into the system's CD or DVD drive.
- 3. Boot the system and allow it to access the Microsoft Windows operating system CD-ROM or DVD.
- 4. At the Windows setup window:
 - Select the language, time and keyboard options
 - Click Next
 - Click **Install Now** or similar
 - If prompted, select the desired Operating System
 - Click Next
 - Insert the storage medium with the **AMD-RAID** drivers into the USB port or applicable system drive.
 - Click Browse
 - Navigate to the directory containing the saved **AMD-RAID** drivers
 - Click **OK**

Note: If the installation has multiple controllers, there will be two or more rebottom.inf's listed.

- Select the first **AMD-RAID Bottom Device** (**rcbottom.inf**) driver in the list
- Click Next

- 5. At the Load Driver Warning message
 - Click **OK**
- 6. At the Select the Driver to install window
 - Click **Browse**
 - Navigate to the directory containing the saved **AMD-RAID** drivers
 - Click OK
 - Select the **AMD-RAID Controller (rcraid.inf)** driver in the list
 - Click Next
 - Select (Check Mark) I Accept the License Terms
 - Click Next
 - Select Custom: Install Windows Only (advanced) or similar
- 7. Once both drivers have been loaded, a valid Virtual Disk appears:
 - Click Load Drivers
 - Click Browse
 - Navigate to the directory containing the saved **AMD-RAID** drivers
 - Click OK
 - Select the **AMD-RAID Config Device** (**rccfg.inf**) driver from the list
 - Click Next
- 8. At the Where do you want to install Windows
 - Click Next
- 9. Follow the on-screen instructions to complete the installation of the applicable Windows operating system.
- 10. After the OS is installed, Open Device Manager and verify the following:
 - Expand Storage Controllers: there will be an entry(ies) listed as **AMD-RAID Bottom Device**
 - Expand Storage Controllers: there will be an entry(ies) listed as **AMD-RAID** Controller
 - Expand System Devices: there will be an entry listed as AMD-RAID Config Device
- 11. Remove the storage medium and Microsoft Windows OS CD-ROM or DVD from the applicable drive(s) or port.
- 12. Proceed Installing the **AMD RAIDXpert2 Management Suite for Windows**®, Refer to Chapter 6.

Chapter 6 Install the AMD-RAIDXpert2 Management Suite and Web GUI

6.1 Windows® – AMD-RAIDXpert2 Management Suite

Obtain the latest AMD RAID installer executable file from your system supplier or motherboard vendor. Download the file to the system's desktop, execute it and follow the onscreen prompts.

6.1.1 Windows® – AMD-RAIDXpert2 Management Suite Installation (Using Installer)

- 1. Obtain the latest AMD RAID installer executable file from your system supplier or motherboard vendor.
- 2. Download the file to the system's desktop, execute it and follow the on-screen prompts.
- 3. Click on the RAIDXpert2 Desktop Icon
- 4. Select the applicable **language** from the drop-down menu (defaults on English)
- 5. Default credentials are:
 - Username admin
 - Password **admin**
- 6. Change the credentials:
 - Create new username
 - Create new password
- 7. Re-log into the system with the new credentials.

6.1.2 Windows® – AMD RAIDXpert2 Management Suite Installation (Manually)

- 1. Obtain the AMD RAIDXpert2 Management Suite executable file (Setup.exe) from your system supplier or motherboard vendor. Download Setup.exe to the system's desktop.
- 2. Install AMD RAIDXpert2 (setup.exe) by:
 - Open a command prompt, must be run as Administrator
 - •cd C:\User\User Name\Desktop
 - For silent installation: setup.exe

56268 Rev. 1.03 August 2019

• For GUI installation: setup.exe -i qui

Note: For the Web GUI to function correctly, rc_cgi and apache must be running.

- 3. Turn off Windows Firewall (or unblock during step 2).
- 4. Click on the RAIDXpert2 Desktop Icon

Default credentials are:

- Username **admin**
- Password **admin**

Change the credentials:

- Create new username
- Create new password
- 5. Re-log into the **AMD RAIDXpert2 Management Suite** or **Web GUI** with the new credentials.