

ASRock X399 Ultra QUAD M.2 RAID Configuration

[BIOS setting]

Please follow the steps to configure NVME RAID for X399 platform.

Step 1 – Refer the following path to set the SATA mode to [RAID mode].

Path: BIOS → Advanced → Storage Configuration → RAID mode



Step 2 – Set NVMe RAID mode to [enabled]. *(For M.2 NVME drive only)*

PCIe 1*16 / 4*4 switch to 4*4.

Path: BIOS → Advanced → AMD PBS → NVMe RAID mode → [Enable]

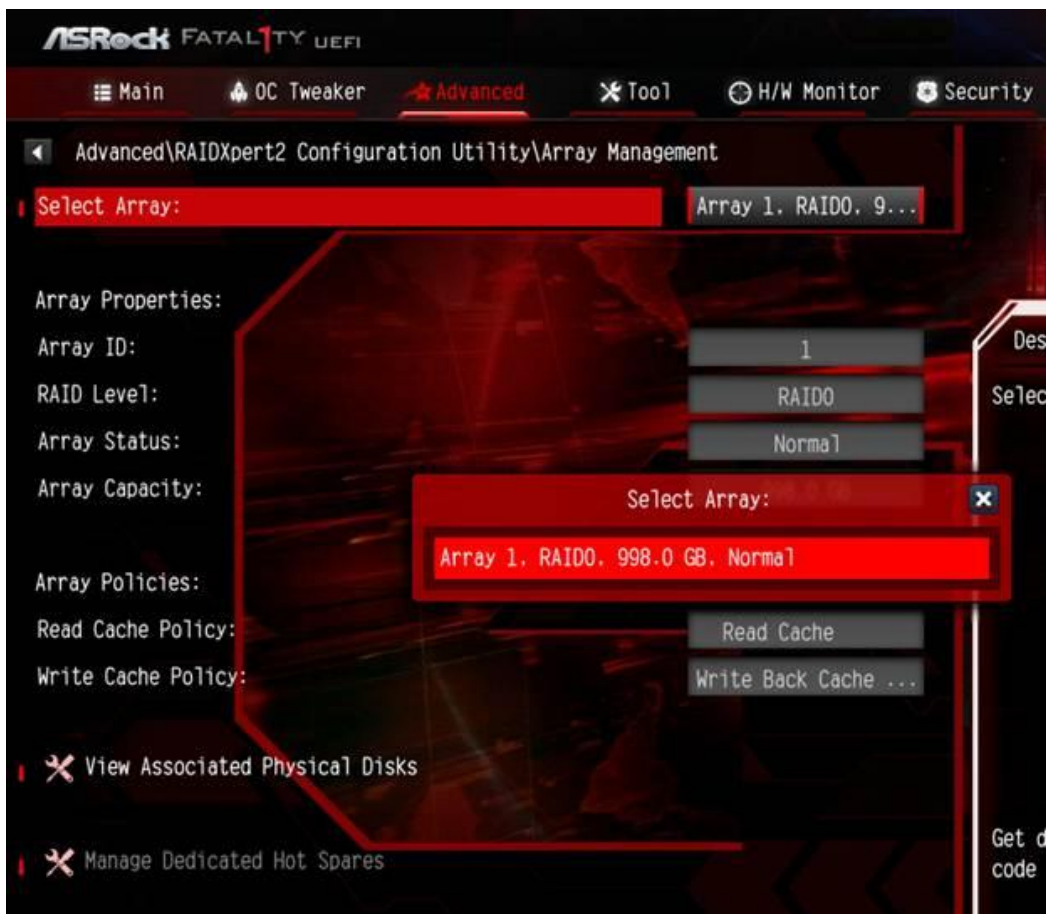


Step 3 – After finishing above BIOS option adjustment, please save the setting and exit the BIOS to reboot the system.

Step 4 – Enter the BIOS to select RAID volume.

Path: BIOS → Advanced → RAIDxpert2 Configuration Utility → Array Management

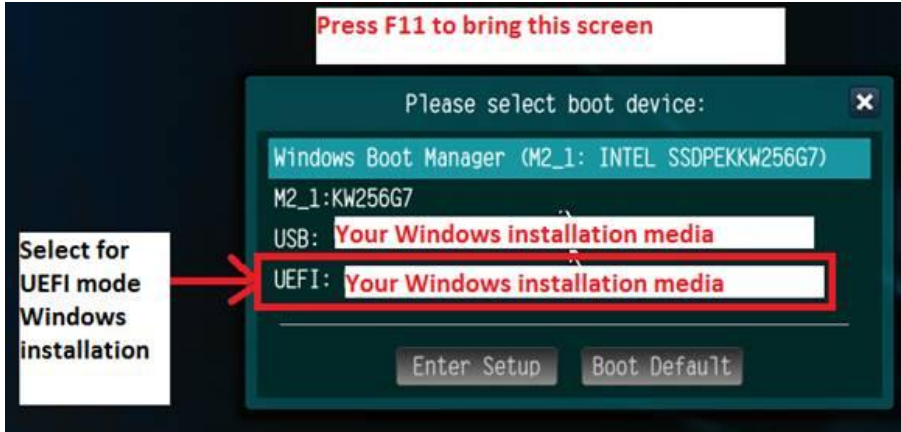
→ Select Create Array to create the desired RAID 0, 1 or 10 for drives on RAID configuration (Select RAID level and select Physical Disk for drives that in RAID array).



Note 1: Delete Array first before create new if Delete array is not grey out)

[OS installation]

Step 1 – After saving the array setting, reboot the system and press hotkey “F11” to boot menu to install the OS. Select the UEFI: Windows installation media disk.



Note 1: To install Windows 10 OS, we recommend to use the RS2 or later version.

Note 2: If you are going to install Windows 10 RS1, please disable the IOMMU during installation.

Step 2 – Install the SATA Floppy Image driver when Windows 10 installation is prompt.

Note 1: Two drives of M.2 RAID will show on the list, please ignore them.

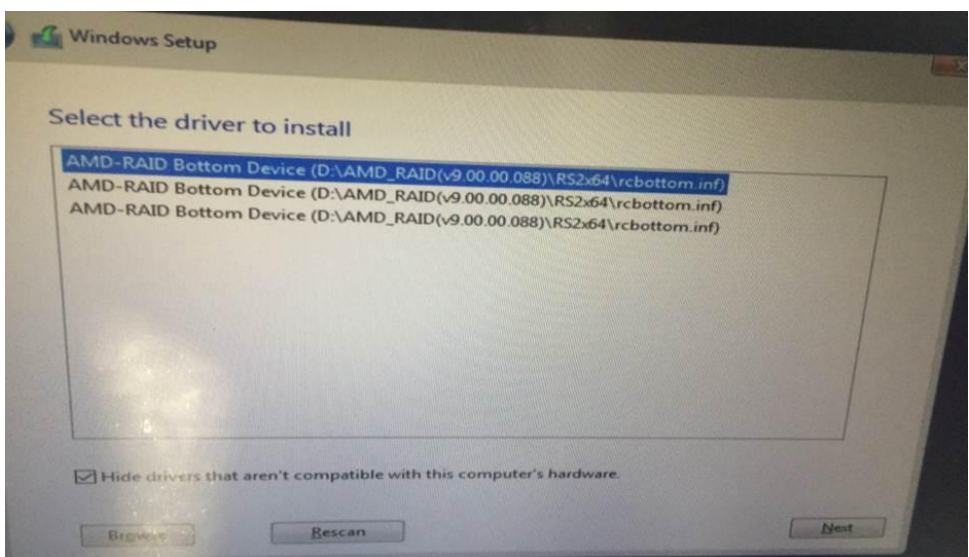
Note 2: AMD RAID driver v9.00.00.088 can be downloading from below link.

Link: <http://www.asrock.com/mb/AMD/Fatal1ty%20X399%20Professional%20Gaming/index.us.asp#Download>

After extracting the zip file, please save the driver into a USB flash drive.

Note 3: The driver requires to P1.70 or later version BIOS

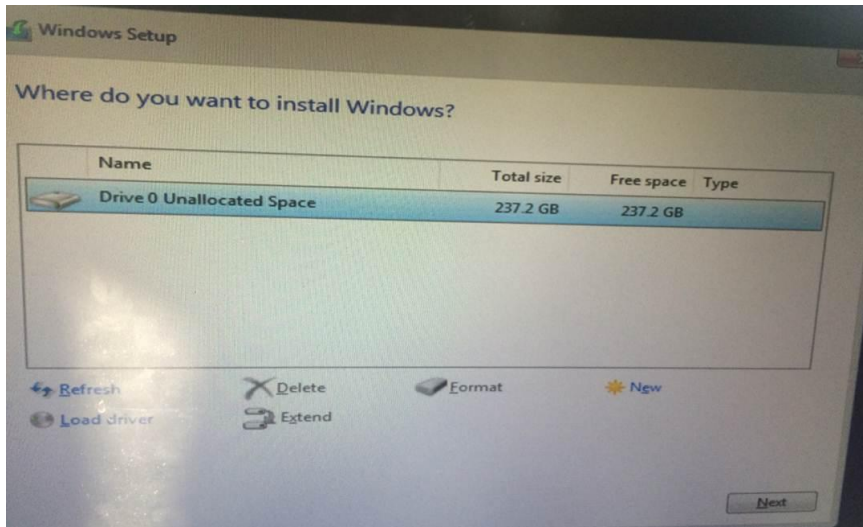
Step 3 – Browse the drivers and select “AMD RAID Bottom Device” to install.



Note1: However, the RAID drives still not shown on the list. That's normal.

Step 4 – Browse the drivers again and select “AMD-RAID Controller” to install.
After installing, RAID drive will show on the list.

Step 5 – Follow the Windows installation procedures.



[Appendix]

AMD RAIDXpert2 utility is optional.

RAIDXPert login user name: admin

password: admin

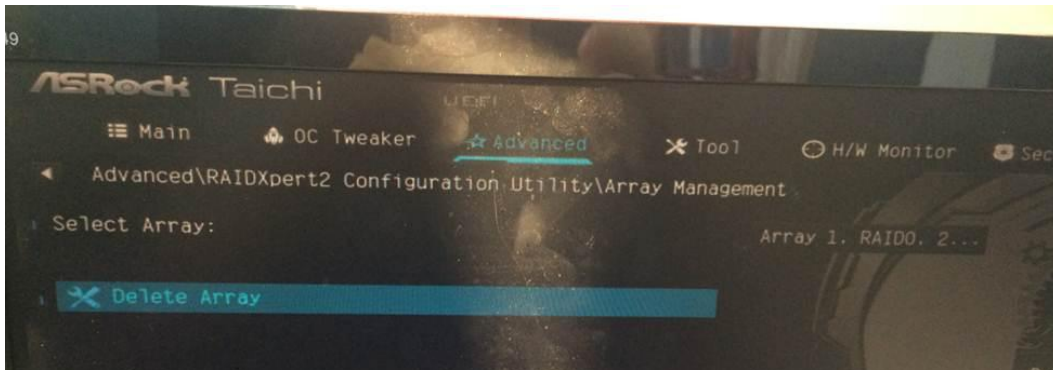
[How to delete RIAD volume]

Step 1 – Enter the BIOS to select RAID volume.

Path: BIOS → Advanced → RAIDXpert2 → Array Management → Delete Array



Step 2 – Select the array and choose “delete array”



Step 3 – Select confirm to [Enabled] and press “yes” to delete
After that, RAID volume will be deleted successfully.

