

How to create RAID volume on MSI Z590 motherboard



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Modify RAID configuration in BIOS setup.

### Step 1: Into BIOS Setup.





### Step 2: Modify 3 \* Items in BIOS Setup.



- BIOS / Settings / Advanced / Integrated Peripheries
- Modify "SATA mode" to "RAID/Optane Mode".
- Modify "M2\_2-RST PCIE Storage Remapping" to "Enabled".
- Modify "M2\_3-RST PCIE Storage Remapping" to "Enabled".

### Step 2: Modify 3 \* Items in BIOS Setup.





## Step 3: Press F10 Button for Saving Changes and Reboot

- BIOS / Settings / Save & Exit
- Or please press "Save Changes and Reboot".



### Step 4: Save Configuration and Exit.



Please press "YES" button.



### Step 5: Into BIOS setup again.





### Step 6: Press Intel(R) Rapid Storage Technology Item.



BIOS / Settings / Advanced /



### Step 7: Press Create RAID Volume item.



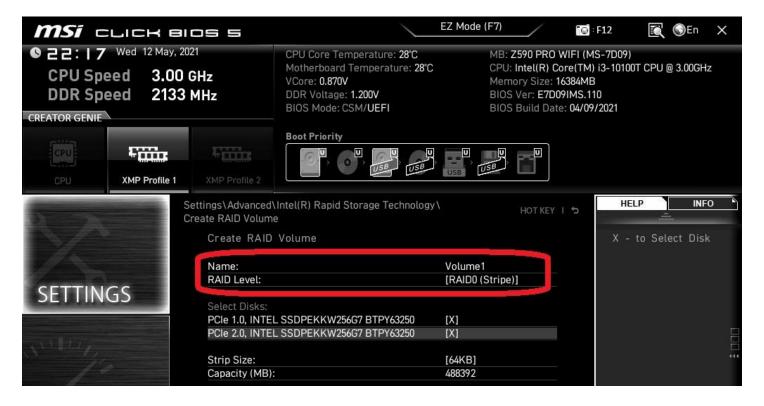
- It is showed storages.
- Then please press "Create RAID Volume" item.



### Step 8: Modify Name and RAID Level.



Please modify "Name" and "RAID Level" you wanted.



### Step 9: Select Disk.



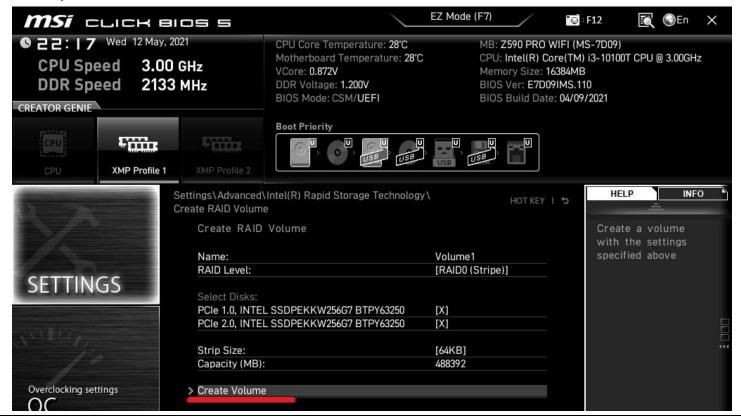
Please select disk you want to create RAID.



### Step 10: Press Create Volume Item.



Please press "Create Volume" item.



### Step 11: Showed RAID Volumes.

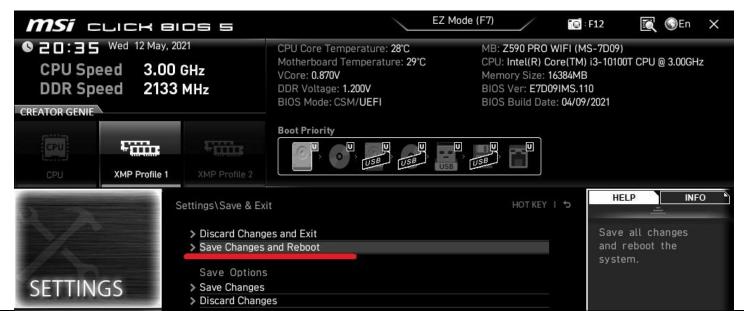


It will be showed RAID volume.



### Step 12: Press F10 button for Saving Changes and Rebo

- BIOS / Settings / Save & Exit
- Or please press "Save Changes and Reboot" and then press "OK button".





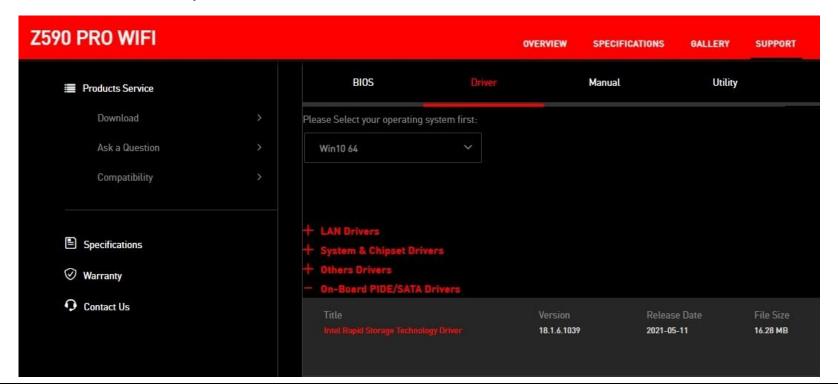


Load RST driver during installing Windows 10 process.

### Step 13: Download RST Driver on MSI Website.



 Please download "Intel Rapid Storage Technology Driver" on MSI website. Example:



### Step 14: Copy RST Driver to USB Storage.



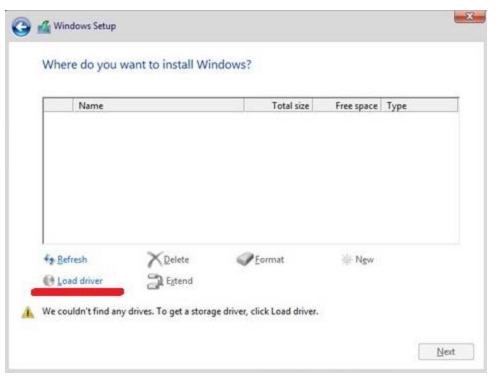
 Please copy this RST driver to USB storage and then plug this USB storage on this system.



### Step 15: Press Load Driver During Installation.



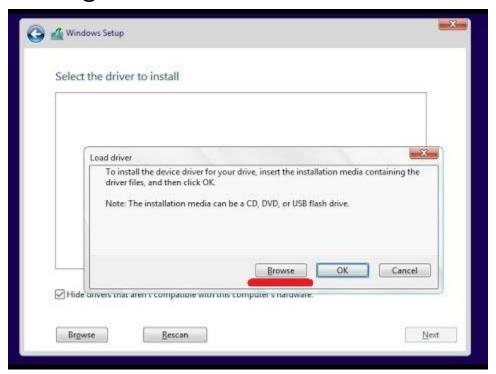
 It will be not showed any storage during installation and then press "Load driver" item.



#### Step 16: Press Browse Button.



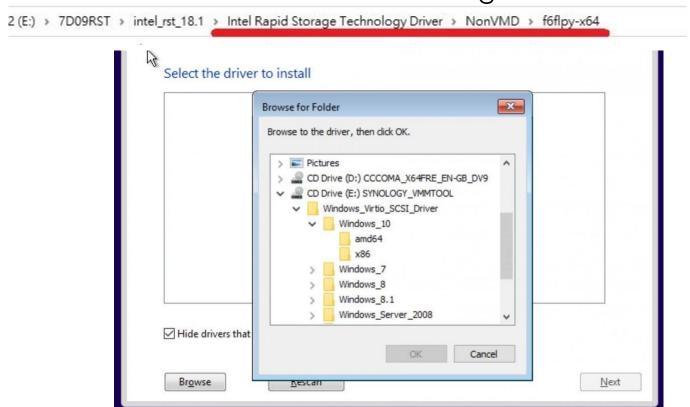
 Please press "Browse" button and then choose folder of RST driver on USB storage.



### Step 17: Choose Folder of RST Driver.



Choose folder of RST driver on USB storage as below.



### Step 18: Press Next Button for Loading Driver.



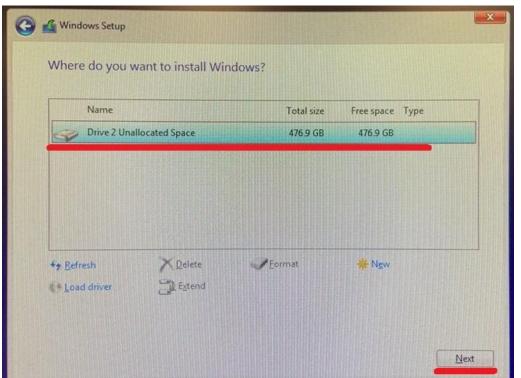
 It will be showed location of driver and then please press "Next" button for loading driver.

> Windows Setup Select the driver to install \7D09RST\intel\_rst\_18.1\Intel Rapid Storage Technology Driver\NonVMD\f6flpy-x64\iaStorAC.inf Hide drivers that aren't compatible with this computer's hardware. Browse Rescan

### Step 19: Showed RAID Volume.



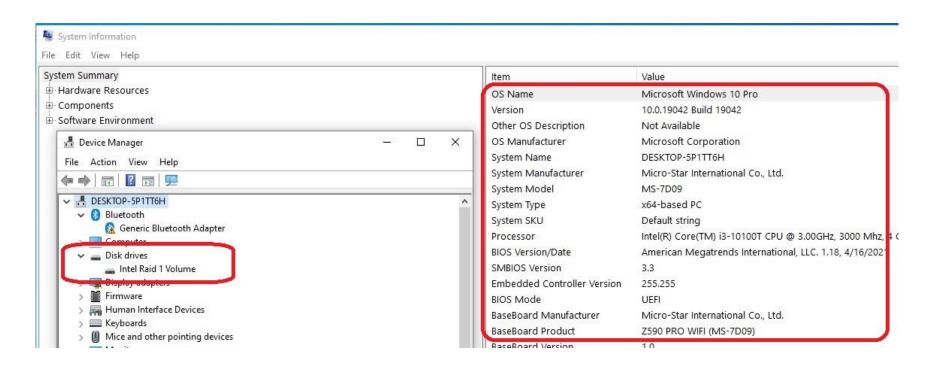
 It will be showed RAID volume and then press "Next" button for installing Windows OS on this RAID storage.



### Step 20: Check RAID Volume in Device Manager.



It has been installed Windows 10 OS on this RAID volume.



#### Note:



- M2\_1 slot is from CPU and it is available on 11<sup>th</sup> Gen Intel CPU.
- M2\_2 slot and M2\_2 slot are from Z590 chipset.
- For RAID, M2\_1 slots is just detected Intel SSD.
- So we are suggest installing M.2 SSD on M2\_2 slot and M2\_3 slot.
  - 3x M.2 slots [Key M]
    - M2 1 slot (from CPU)\*
      - Available only on 11th Gen Intel® CPU
      - Supports up to PCle 4.0x4
      - Supports 2242/ 2260/ 2280/ 22110 storage devices
    - M2\_2\*, M2\_3\*\* slots (from Z590 chipset)
      - Support up to PCle 3.0x4
      - Support up to SATA 6Gb/s
      - Support 2242/ 2260/ 2280 storage devices



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