



**OpenVox Communication Co Ltd**



# **RAID Installation and Configuration Manual**

Version 1.0



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**Revise History**

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| 1.0     | 30/10/2020   | First Version |

## Contents

|  |    |
|--|----|
| 1. CSM compatible module Configuration ..... | 6  |
| 2. Configure RAID mode .....                 | 7  |
| 2.1 Delete New_VD .....                      | 7  |
| 2.2 Configuration Wizard .....               | 8  |
| 2.3 Set up RAID 1 .....                      | 10 |
| 2.4 BIOS Settings .....                      | 11 |
| 3. Install System .....                      | 11 |
| 4. View Info .....                           | 11 |
| Appendix 1: Troubleshooting method .....     | 12 |
| Appendix 2: Notes for troubleshooting .....  | 13 |

First, with the power supply disconnected, correctly install the RAID card and two hard drives.

## 1. CSM compatible module Configuration

Repeatedly press the BIOS shortcut key (Esc or Delete) during the startup process to interrupt the device's startup and enter the BIOS setup interface.

Enter the BIOS settings, select Advanced→CSM configuration.

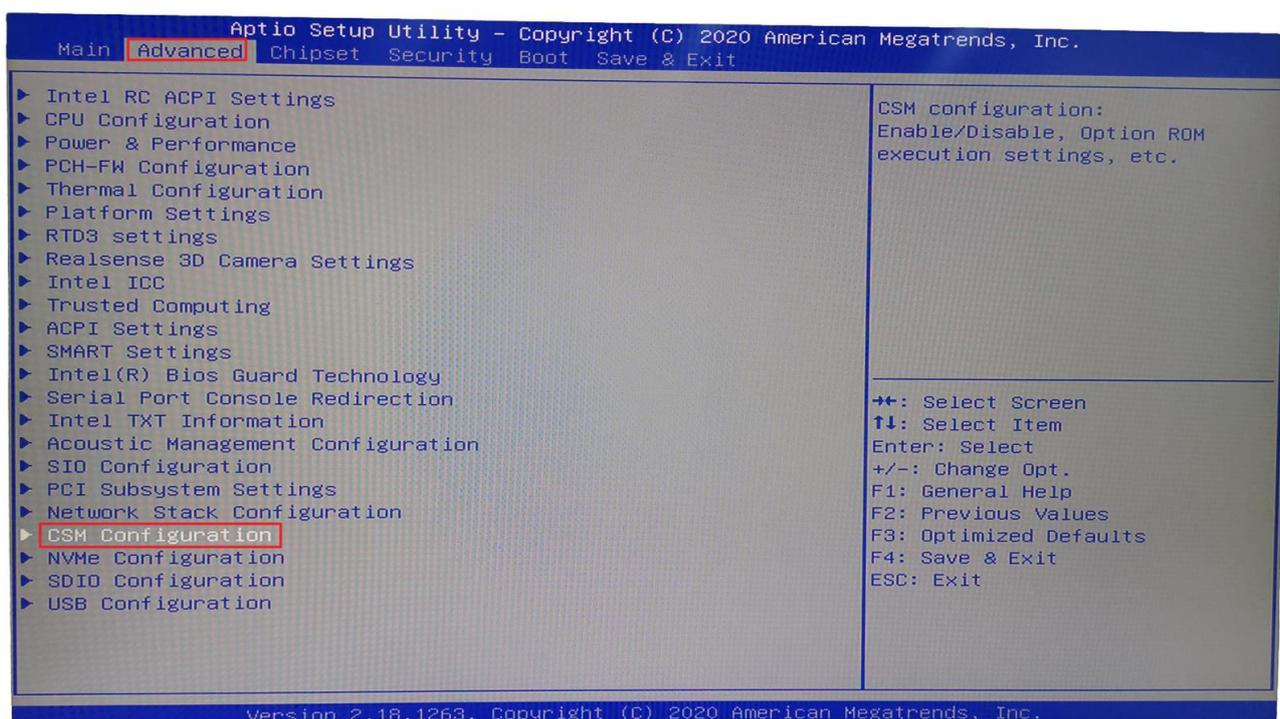


Figure 1-1 Advanced

Set Storage parameter as *legacy*, save the settings and restart.

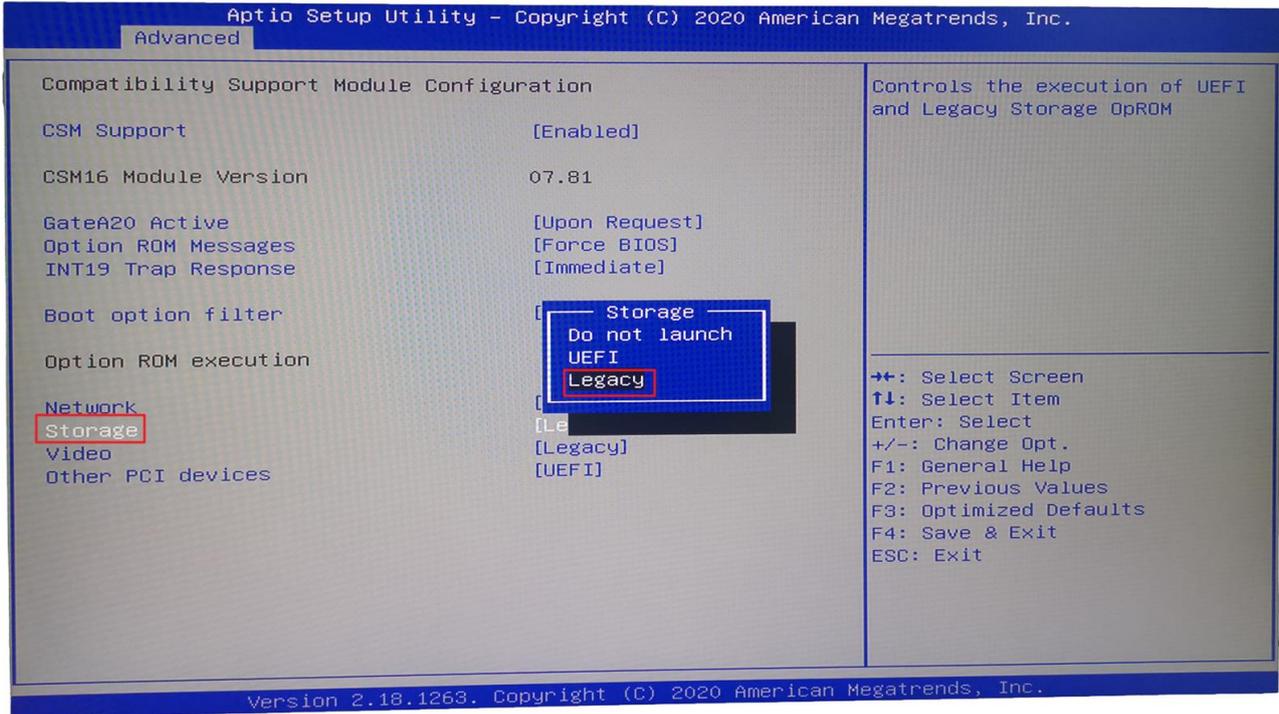


Figure 1-2 CSM configuration

## 2. Configure RAID mode

After powering on, keep pressing Ctrl + M to enter the Raid card and start configuring Raid mode.

### 2.1 Delete New\_VD

Enter the configuration interface, select HBA 0: Marvell 0 and press Enter. If the Configuration Wizard cannot be selected, you should see two hard drives under the New\_VD directory.



Figure 2-1 New\_VD

Choose New\_VD to enter, choose delete, and press Y to confirm.

At this time, the two hard disks are transferred to Free Physical Disks.

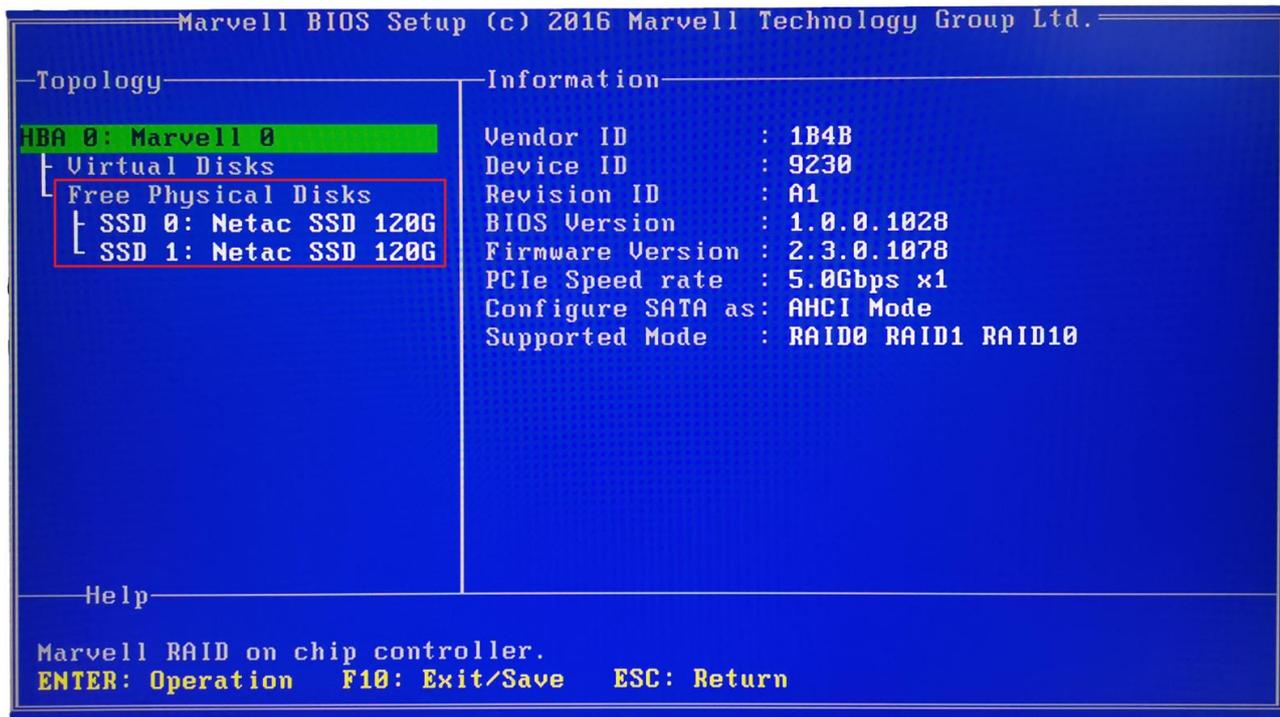


Figure 2-2 Hard Drive transfer

## 2.2 Configuration Wizard

Choose HBA 0: Marvell 0, enter. Select Configuration Wizard and enter.

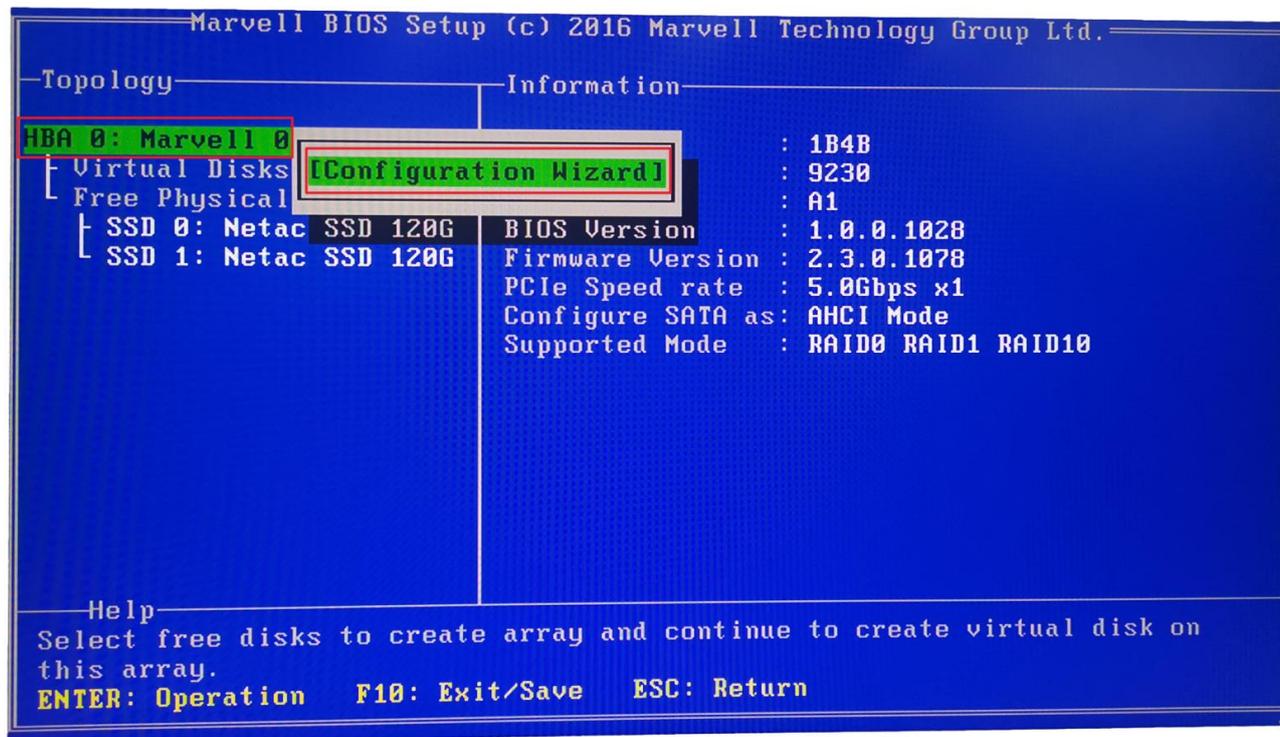


Figure 2-3 Configuration Wizard

Press the space to select two hard disks.

After selecting, there will be an \* mark in front of the corresponding hard disk.

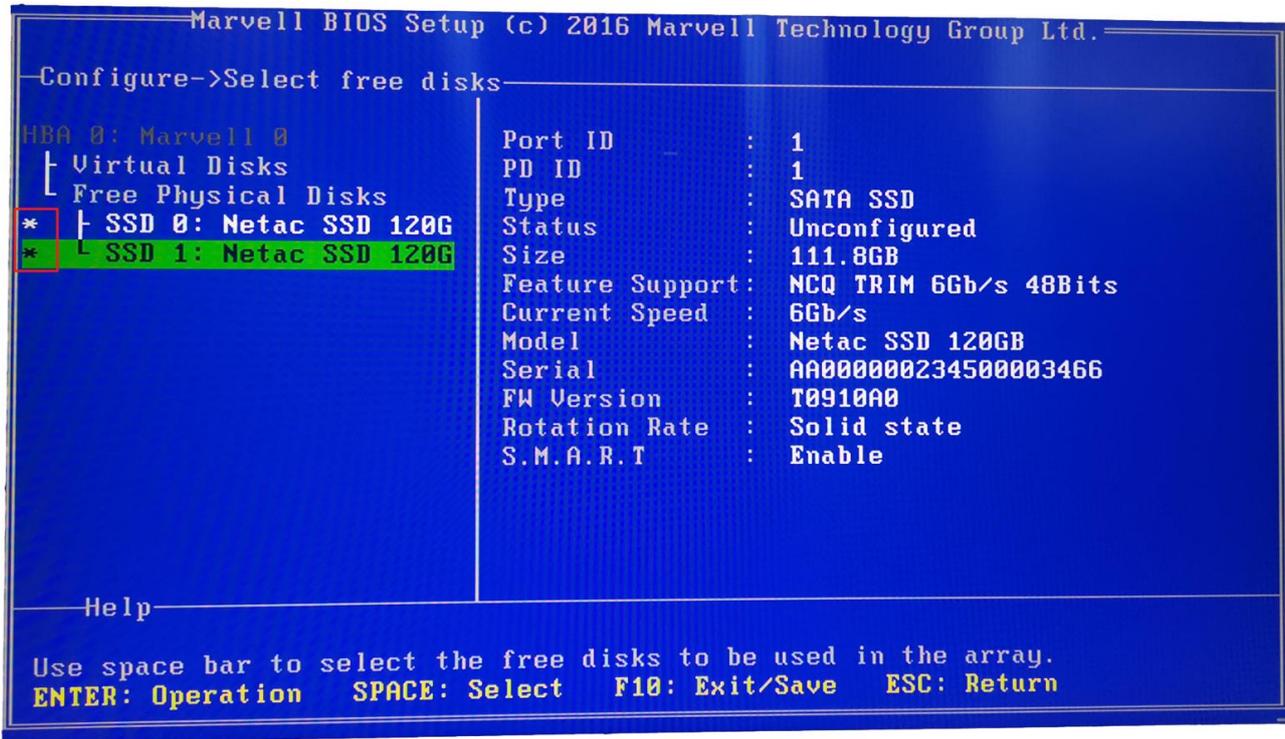


Figure 2-4 Select Hard drive

## 2.3 Set up RAID 1

Move the cursor to the hard disk numbered 0 and press Enter.  
 Press Enter at the RAID Level on the right column and select RAID 1.  
 Name may be modified as appropriate.

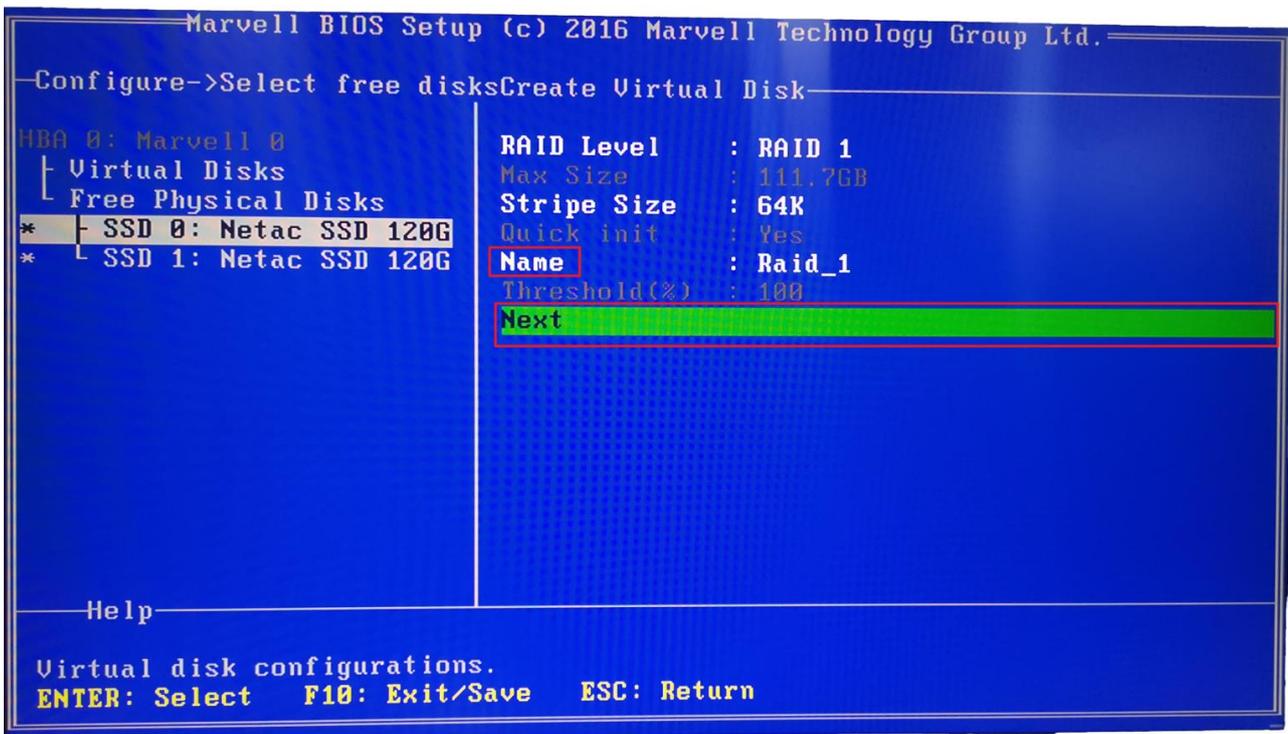
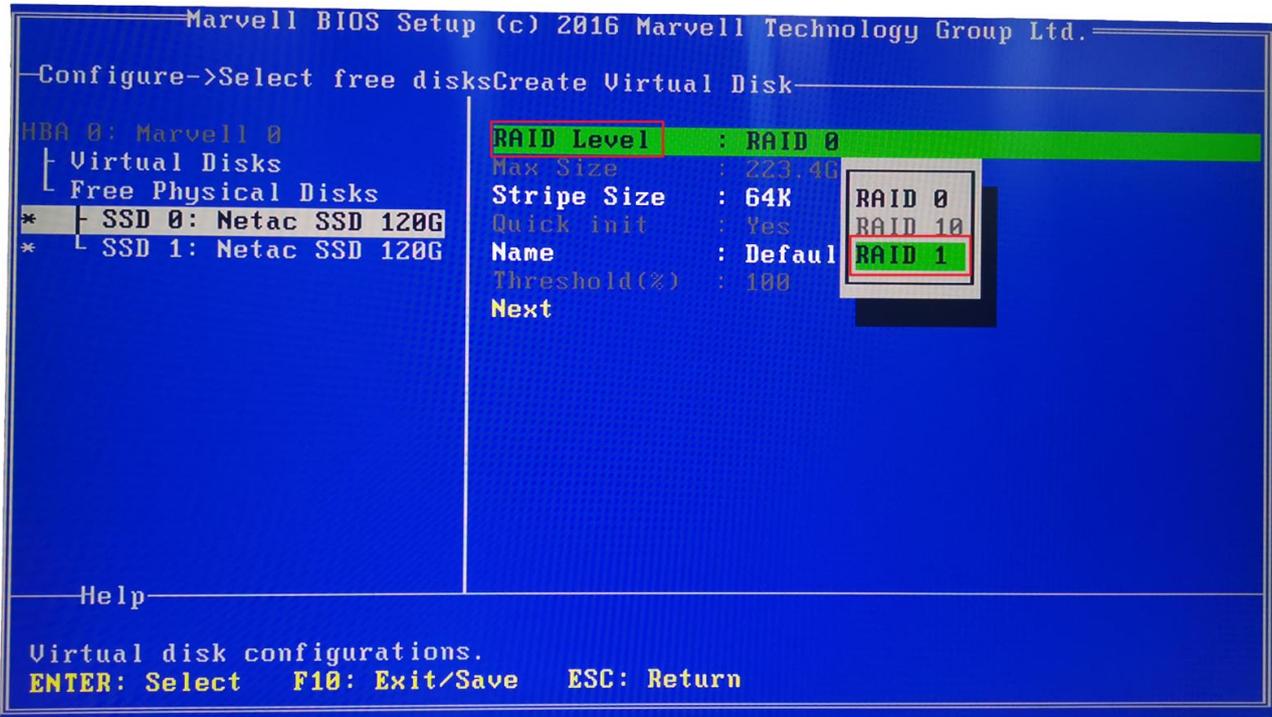


Figure 2-5 Set up RAID 1

Choose Next and press Y to confirm.

F10 to save and exit, press Y to confirm.

## 2.4 BIOS Settings

After power on, press Esc or Delete to enter the BIOS settings.

In Boot -> Boot Option, you can see the MARCELL Raid VD option, indicating that the setting is successful, just set this item as the preference.

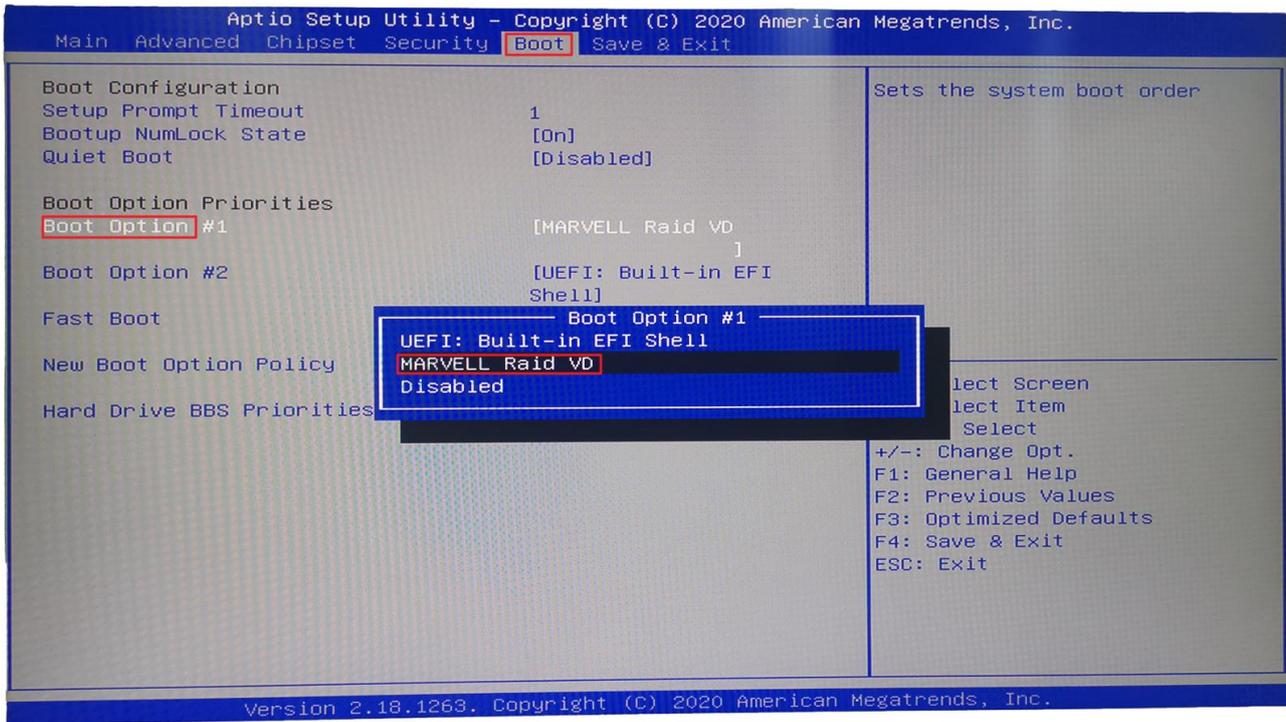


Figure 2-6 Set Boot preferences

## 3. Install System

Install the MSU management software on the system interface, see the attachment Marvell\_MSU\_Linux\_v4.1.0.2032.zip, after decompression, use the command `rpm -ivh MSU-4.1.0.2032-1.x86_64.rpm` to install.

## 4. View Info

Visit <http://172.XXX.XXX.XXX:8845/MSU/JumpPage.php?Target=StoragePage> and you can view the RAID info on this equipment.

## Appendix 1: Troubleshooting method

Hardware location description:

The light on the left of the RAID card is PWR;

The middle light is the SATA status of the right slot;

The right light is the SATA status of the left slot.

Description of equipment operating status:

In normal operation, except the PWR light, the rest are flashing;

When the hard disk is broken, the corresponding status light will always be on.

How to turn on the buzzer switch:

After installing the MSU management software, log in to the software interface and enable the corresponding parameters.

## Appendix 2: Notes for troubleshooting

After the device fails, you need to replace it with a new hard disk. First, determine the location of the bad hard drive, and then shut down the device.

After plugging in the new hard disk, turn on the device and the device will synchronize data normally.

**Although the device is modular design, but does not support hot-plugging, it is strictly prohibited to insert or remove the module while the device is in operation.**