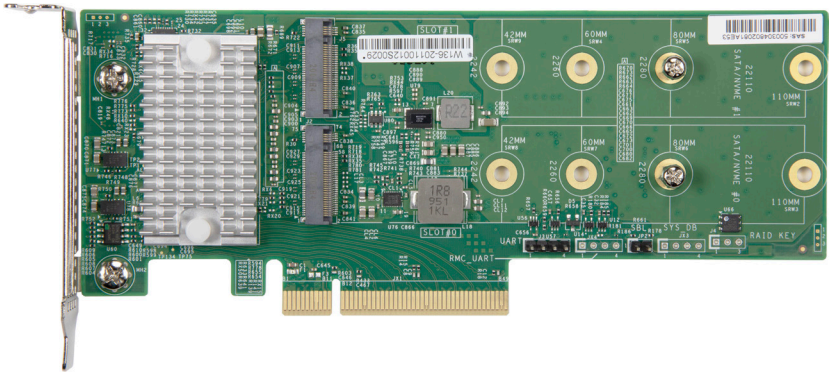




AOC-SLG3-2H8M2



## User's Guide

Revision 1.0a

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User's Guide Revision 1.0a

Release Date: March 2, 2021

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## Preface

### About this User's Guide

This user's guide is written for system integrators, IT technicians, and knowledgeable end users. It provides information for the installation and use of the AOC-SLG3-2H8M2 controller card.

### About this Controller Card

The AOC-SLG3-2H8M2 is an M.2 SSD carrier card that enables the user to add up to two NVMe or SATA M.2 SSDs to any validated X11, X12, H11, or H12 motherboard. M.2 solid state technology is an optimized, high-performance, scalable storage solution, effectively streamlined for enterprise and client systems that leverage the cutting-edge power of PCI Express.

### An Important Note to the User

All images and layouts shown in this user's guide are based upon the latest PCB revision available at the time of publishing. The card you have received may or may not look exactly the same as the graphics shown in this user's guide.

### Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning the AOC-SLG3-2H8M2 card to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and the shipping package is mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete. For faster service, you can also request a RMA authorization online at <http://www.supermicro.com/RmaForm/>.

This warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alteration, misuse, abuse or improper maintenance of products.

During the warranty period, contact your distributor first for any product problems.

## Conventions Used in the User's Guide

Pay special attention to the following symbols for proper system installation and for safety instructions to prevent damage to the system or injury to yourself:

**Warning:** Important information given to ensure proper system installation or to prevent damage to the components or injury to yourself.

**Note:** Additional information given for proper system setup.



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# Chapter 1

## Overview

### 1-1 Overview

Congratulations on purchasing your expansion card from an acknowledged leader in the industry. Supermicro products are designed with the utmost attention to detail to provide you with the highest standards in quality and performance. For product support and updates, please refer to our website at <http://www.supermicro.com>.

### 1-2 Technical Specifications

#### General

PCIe 3.0 x8 low-profile card

Supports up to two NVMe/SATA M.2 SSDs

Dual M-Key sockets

Adjustable standoffs supporting 22110, 2260, and 2242 M.2 SSD form factors

Broadcom SAS3408 Tomcat I/O RAID Controller

BMC-enabled management

Onboard LEDs for SSD Activity and Status

Thermal operating range depends on the system (55°C or higher with enough airflow)

#### OS Support

Windows, Linux, VMWare

#### Compatible Systems

X11, X12, H11, and H12-based systems (Check the product page for a validated platform list.)

#### Physical Dimensions

Card PCB dimensions: 2.71" x 6.6" (H x L)

## Notes

## Chapter 2

### Hardware Components

#### 2-1 Controller Card Layout and Components

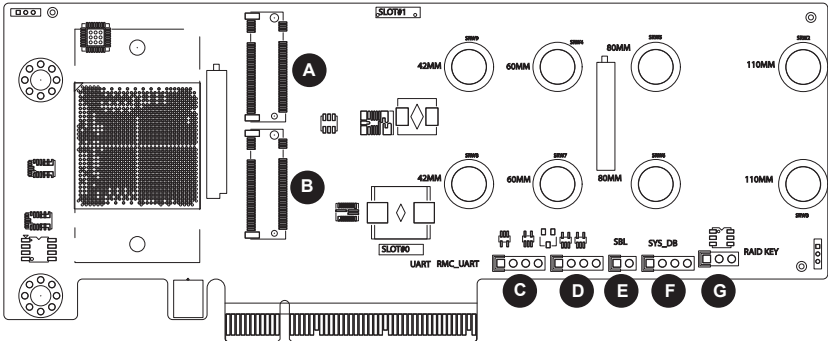


Figure 2-1. AOC-SLG3-2H8M2 Top Layout

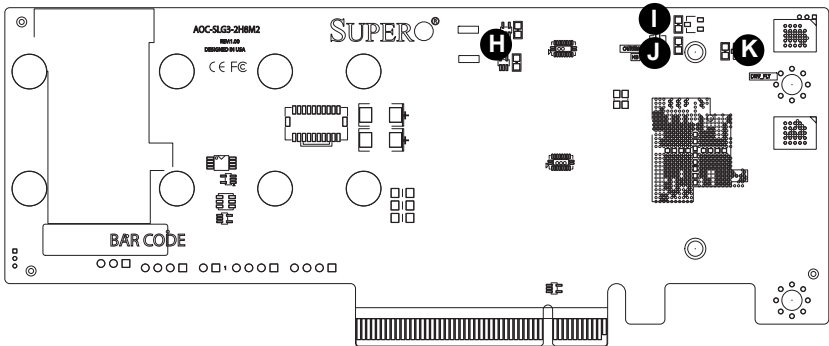


Figure 2-2. AOC-SLG3-2H8M2 Bottom Layout

#### 2-2 Major Components

The following major components are on the AOC-SLG3-2H8M2:

- |                    |                    |
|--------------------|--------------------|
| A. M.2 Socket 1    | G. RAID KEY Header |
| B. M.2 Socket 0    | H. Activity LEDs   |
| C. UART Header     | I. Overheat LED    |
| D. RMC_UART Header | J. Heartbeat LED   |
| E. SBL Jumper      | K. Drive Fault LED |
| F. SYS_DB Jumper   |                    |

## 2-3 Connectors and LEDs

### M.2 Sockets

There are two M.2 sockets on the controller card.

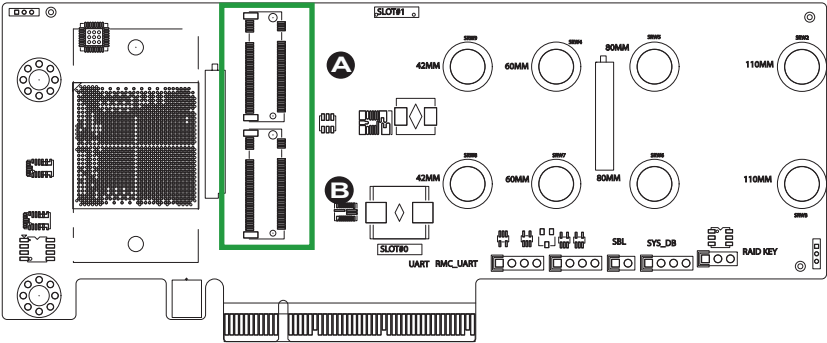


Figure 2-3. AOC-SLG3-2H8M2 NVMe Connectors

A. M.2 Socket 1

B. M.2 Socket 0

## Headers and Jumpers

There are five headers/jumpers on the AOC-SLG3-2H8M2. See the table below for information:

Header/Jumper Descriptions	
Header/Jumper	Purpose
A: UART	UART Jumper, for engineering debug
B: RMC_UART	UART Jumper, for engineering test
C: SBL	Boot Loader Jumper, for engineering test
D: SYS_DB	System Debug Jumper, for engineering test
E: RAID KEY	RAID Key Jumper, for engineering test

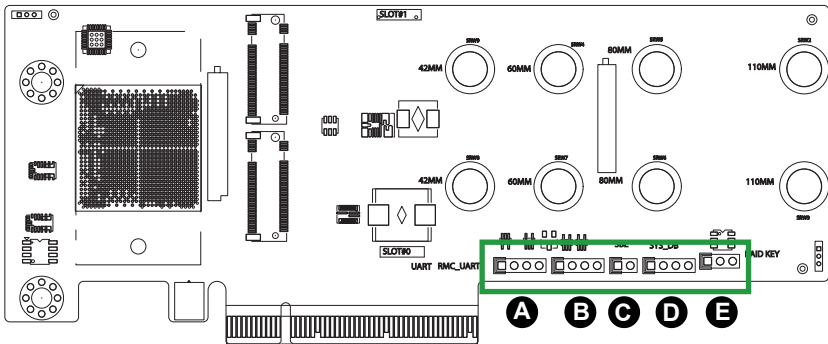
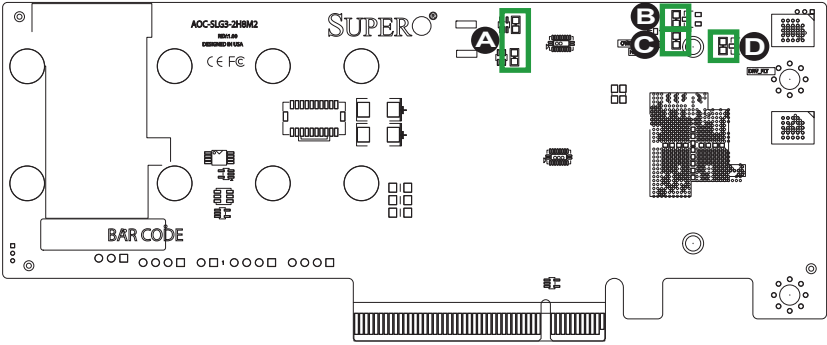


Figure 2-4. AOC-SLG3-2H8M2 Headers



**LEDs**

There are two Activity LEDs on the AOC-SLG3-2H8M2, designated LED1 and LED2. There is one Overheat LED, designated D12, one Heartbeat LED, designated D3, and one Drive Fault LED, designated D13. See the table below for information.



**Figure 2-5. AOC-SLG3-2H8M2 LEDs**

- A. Activity LEDs
- B. Overheat LED
- C. Heartbeat LED
- D. Drive Fault LED

LED Status		
LED	Color	Status
LED1	Green	Blinks when there is read or write activity on M.2 Socket 0.
LED2	Green	Blinks when there is read or write activity on M.2 Socket 1.
D12	Red	Illuminates when the add-on card overheats.
D13	Red	Illuminates when a drive fault occurs.
D3	Green	Blinks when the firmware is running on the controller chip.

## 2-4 Standoffs

The AOC-SLG3-2H8M2 is designed with movable standoffs which support four different M.2 SSD lengths. Place the standoffs as indicated below:

Standoff Descriptions	
M.2 Length	Standoff Positions
22mm x 42mm	1: SRW9 and SRW8
22mm x 60mm	2: SRW4 and SRW7
22mm x 80mm	3: SRW5 and SRW6
22mm x 110mm	4: SRW2 and SRW3

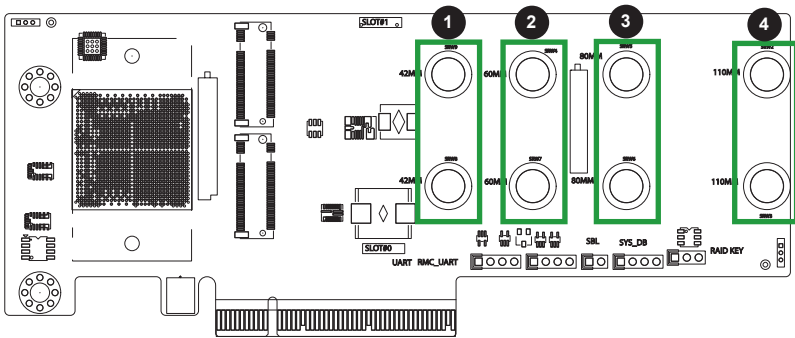


Figure 2-6. AOC-SLG3-2H8M2 Standoff Positions

## Chapter 3

# Installation

### 3-1 Static-Sensitive Devices

Electrostatic Discharge (ESD) can damage electronic components. To avoid damaging your expansion card, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

#### Precautions

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing the expansion card from the antistatic bag.
- Handle the expansion card by its edges only; do not touch its components or peripheral chips.
- Put the expansion card back into the antistatic bags when not in use.
- For grounding purposes, make sure that your system chassis provides excellent conductivity between the power supply, the case, the mounting fasteners and the expansion card.

#### Unpacking

The expansion card is shipped in antistatic packaging to avoid static damage. When unpacking your component, make sure you are static protected.

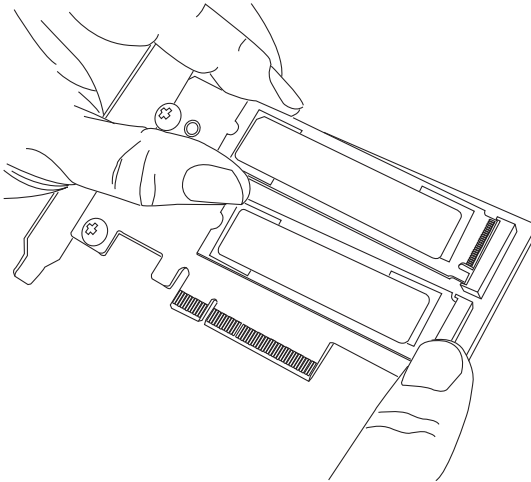
**Note:** To avoid damaging your components and to ensure proper installation, be sure to always connect the power cord last, and always remove it before adding, removing or changing any hardware components.

## 3-2 Installing Controller Cards

The AOC-SLG3-2H8M2 supports two M.2 SSDs of 42mm, 60mm, 80mm, or 110mm length. Visit the Supermicro website for a current list of supported M.2 SSDs.

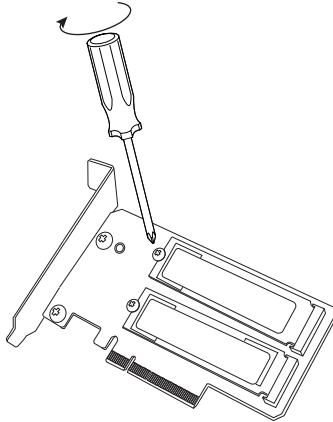
### *Installing Controller Cards*

1. Power down the system and remove the power cord from the rear of the power supply.
2. Use industry-standard anti-static equipment (such as gloves or a wrist strap) and follow the precautions on page 3-1 to avoid damage caused by ESD.
3. In the rear of the chassis, remove the screw securing the PCIe slot cover over the PCIe slot and set it aside for later use.
4. Insert one M.2 SSD into Slot 0 or two M.2 SSDs of the same type, either NVMe or SATA, into both slots on the controller card as illustrated below.



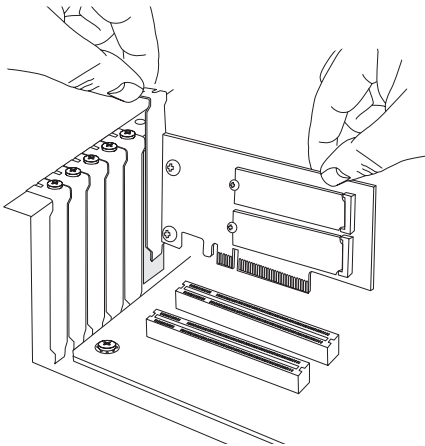
**Figure 3-1. Inserting an M.2 SSD into the Controller Card Slots**

**Note:** Your add-on card may not look exactly like the one pictured.



**Figure 3-2. Securing the M.2 SSDs to the Controller Card**

5. Secure each M.2 card by placing a screw in the mounting hole designated as 42mm, 60mm, 80mm, or 110mm.



**Figure 3-3. Securing the M.2 SSDs to the Controller Card**

6. Simultaneously slide the controller card bracket into the PCIe slot of the chassis while plugging the controller card into the appropriate slot on the motherboard.
7. Secure the controller card's bracket into the PCIe slot by replacing the PCIe slot screw that was previously set aside.
8. Plug the power cords into the rear of the power supply and power up the system.

### 3-3 Installing the Drivers in Windows

Refer to the instructions that came with your M.2 SSD and follow the manufacturer's recommended steps for installing the NVMe driver. Download the latest drivers from the Supermicro project board at <https://www.supermicro.com/wdl/driver>.

### 3-4 Uninstalling the Drivers

***To Uninstall the Drivers in Windows:***

Follow the instructions provided by your M.2 SSD manufacturer.

***To Uninstall the Drivers in Linux:***

Run the following command to uninstall the NVMe drivers:

```
./RemoveService.sh
```

## Chapter 4

### Configuring the Avago 3408 iMR Setting

This chapter provides instructions on how to configure RAID using the AVAGO <SAS 3408> Configuration Utility. If you do not wish to configure RAID settings, skip this section and go directly to OS installation.

#### 4-1 RAID Minimum Drive Requirements

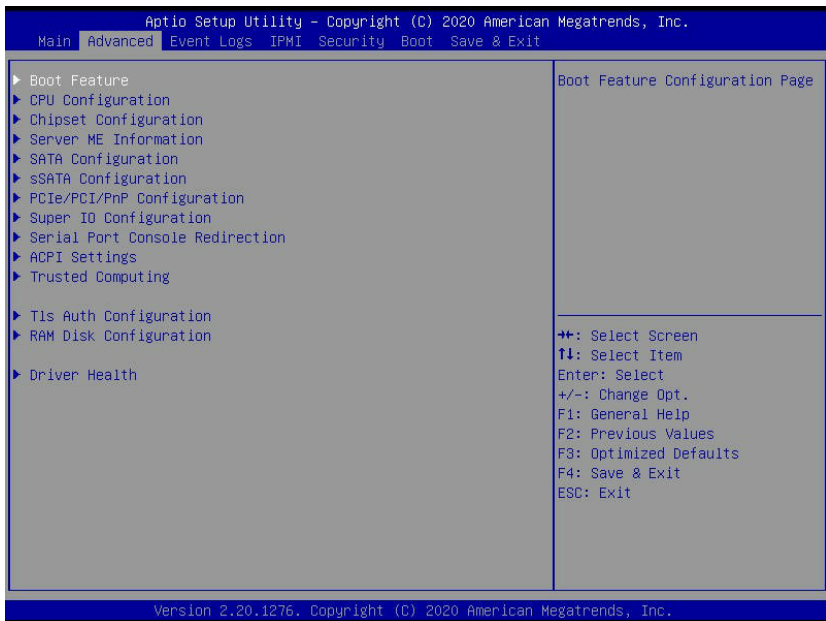
The AOC-SLG3-2H8M2 add-on card supports up to 2 M.2 SSDs with RAID 0 and RAID 1.

RAID	Minimum Hard Drives
RAID 0	2
RAID 1	2

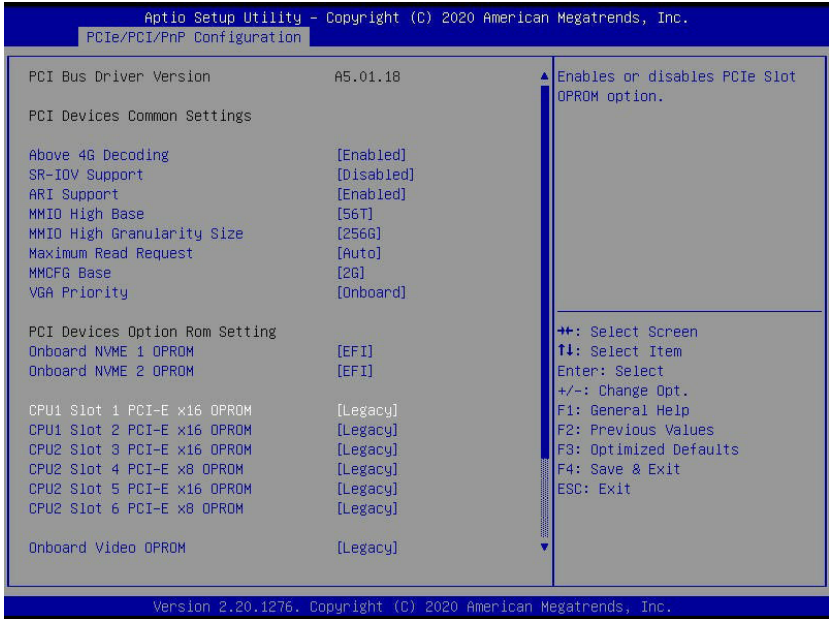
## 4-2 Using the AVAGO <SAS 3408> Configuration Utility

Follow the steps below to use the AVAGO <SAS 3408> Configuration Utility.

1. Reset the system.
2. Press <DEL> to enter the BIOS Setup Utility. AOC-SLG3-2H8M2 only supports UEFI mode. If the AVAGO <SAS 3408> Configuration Utility option is not visible, select PCIe/PCI/PnP Configuration and then select a CPU slot.

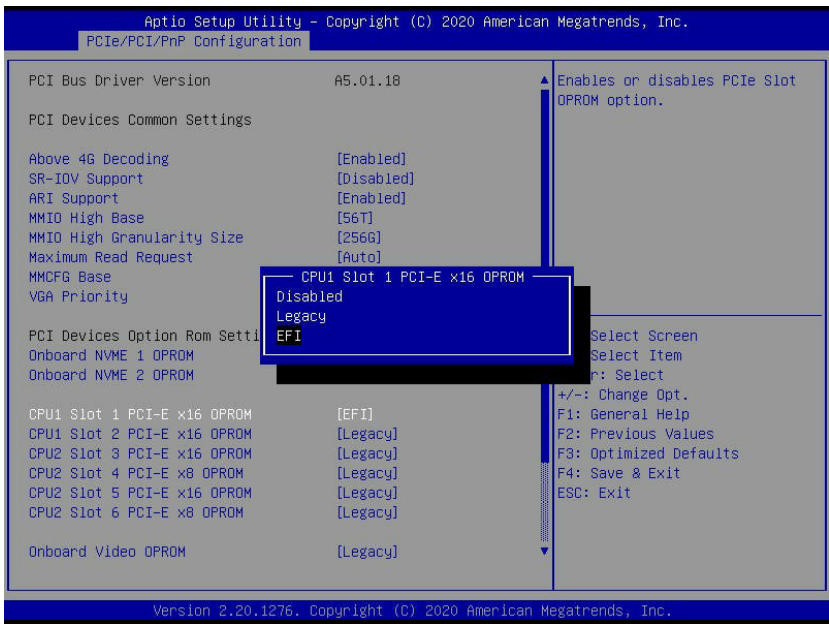


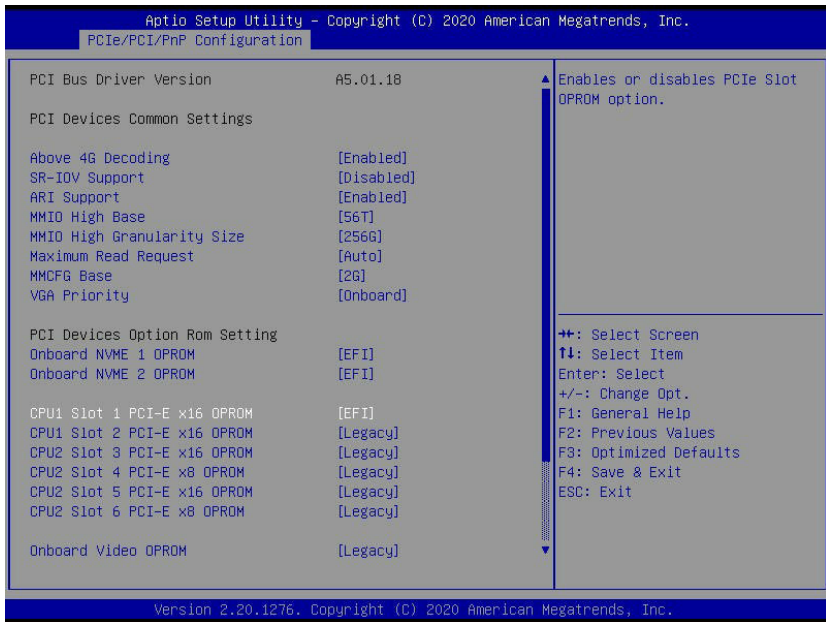




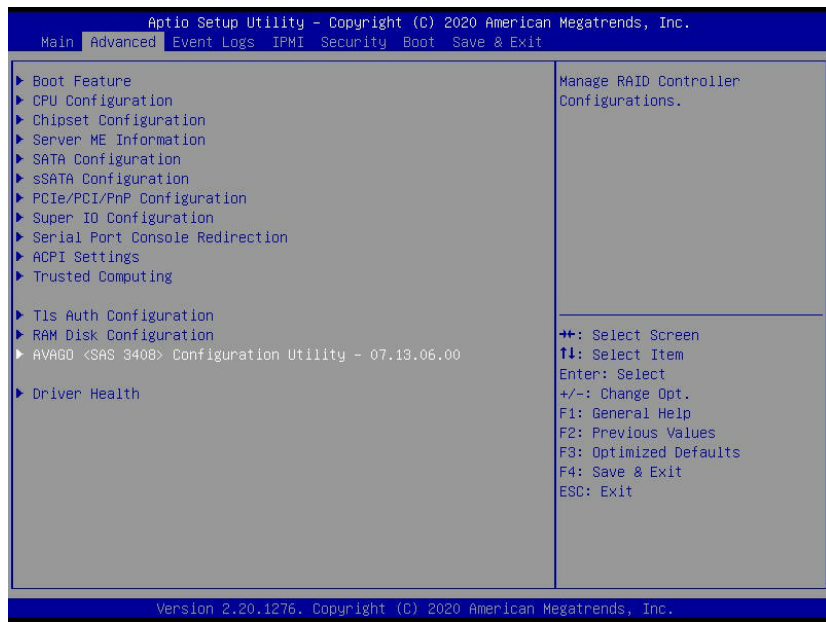
## CPU1 Slot 1 PCI-E X16 OPRM Selected

- When the below screen appears, select EFI mode, then press <F4> to save and exit.

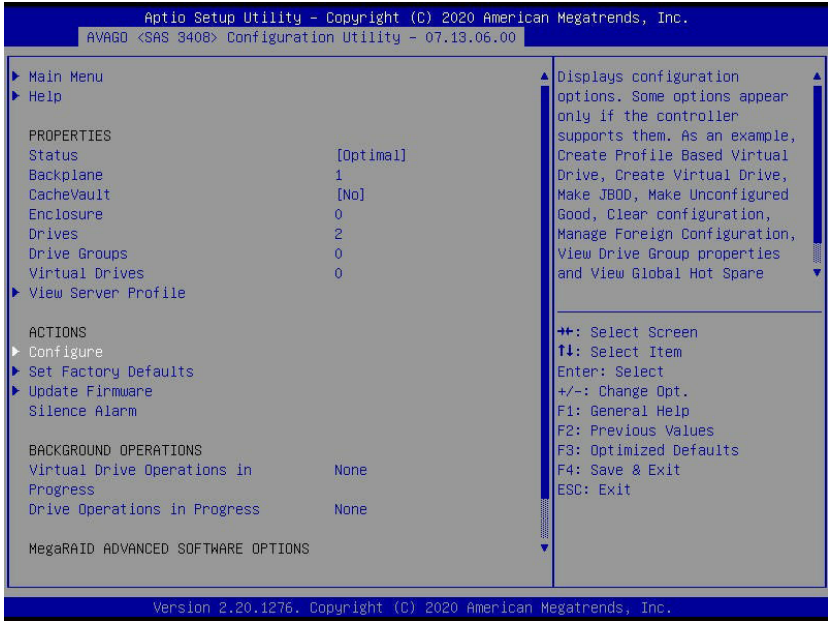




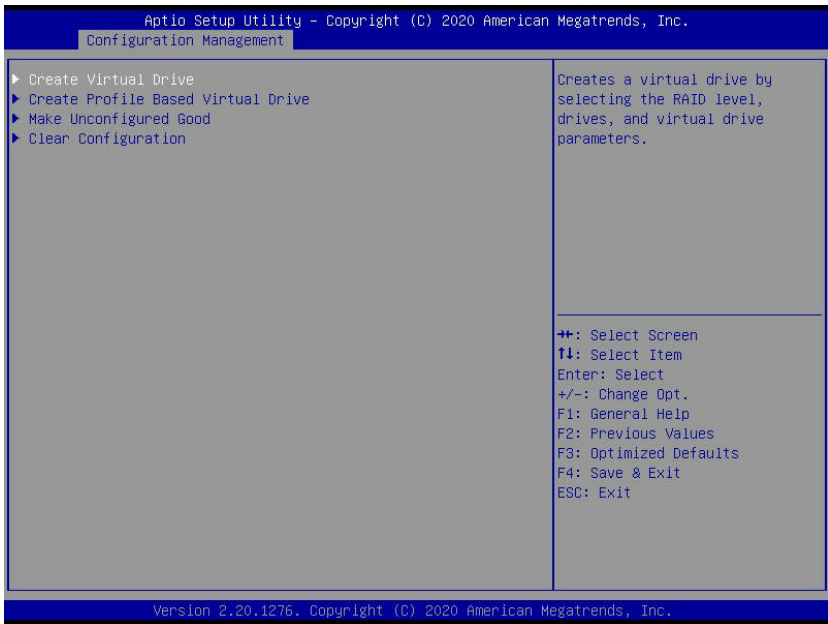
4. Press <ESC> to reach the Advanced tab, then select AVAGO <SAS 3408> Configuration Utility and press <Enter>.



## 5. Select Configure from the ACTIONS submenu.



## 6. Select Create Virtual Drive and press &lt;Enter&gt;.



- On the Create Virtual Drive menu, navigate to Select RAID Level and press <Enter>. Use the up and down arrow keys to select the a RAID level and press <Enter>.

Aptio Setup Utility - Copyright (C) 2020 American Megatrends, Inc.

Create Virtual Drive

<ul style="list-style-type: none"> <li>▶ Save Configuration</li> <li>Select RAID Level [RAID0]</li> <li>Secure Virtual Drive [Disabled]</li> <li>Unmap Capability [Disabled]</li> <li>Select Drives From [Unconfigured Capacity]</li> <li>▶ Select Drives</li> </ul> <p>CONFIGURE VIRTUAL DRIVE PARAMETERS:</p> <ul style="list-style-type: none"> <li>Virtual Drive Name</li> <li>Virtual Drive Size</li> <li>Virtual Drive Size Unit</li> <li>Strip Size</li> <li>Read Policy</li> <li>Write Policy</li> <li>I/O Policy</li> <li>Access Policy</li> <li>Drive Cache [Unchanged]</li> <li>Disable Background Initialization [No]</li> <li>Default Initialization [No]</li> <li>Emulation Type [Default]</li> <li>▶ Save Configuration</li> </ul>	<p>Selects the desired RAID level. The RAID levels that can be configured, if supported, are 0, 1, 5, 6, 00, 10, 50, and 60.</p> <p>RAID 0 -- uses drive striping to provide high data throughput, especially for large files in an environment that requires no data redundancy.</p> <hr/> <p>↔: Select Screen              T1: Select Item              Enter: Select              +/-: Change Opt.              F1: General Help              F2: Previous Values              F3: Optimized Defaults              F4: Save &amp; Exit              ESC: Exit</p>
---	--

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- Navigate to Select Drives, as shown below, and press <Enter>.

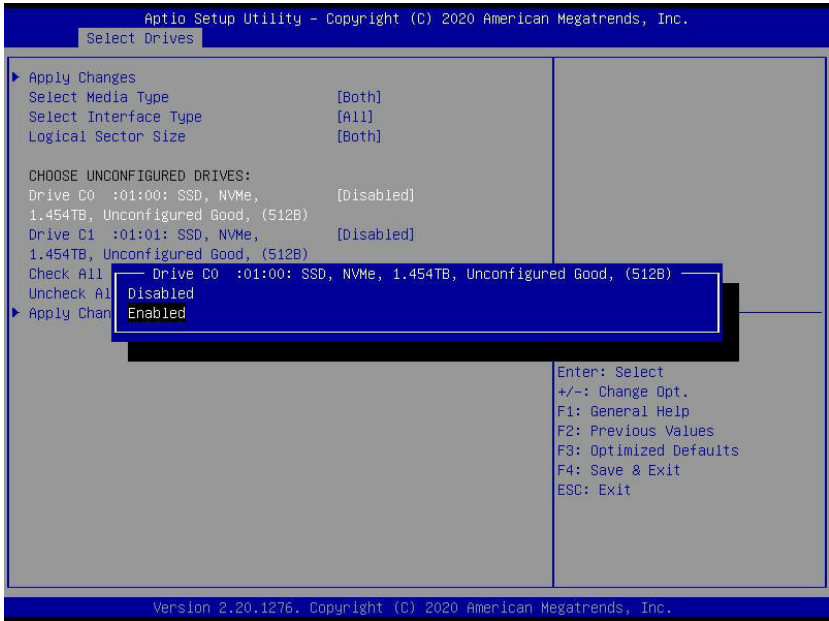
Aptio Setup Utility - Copyright (C) 2020 American Megatrends, Inc.

Create Virtual Drive

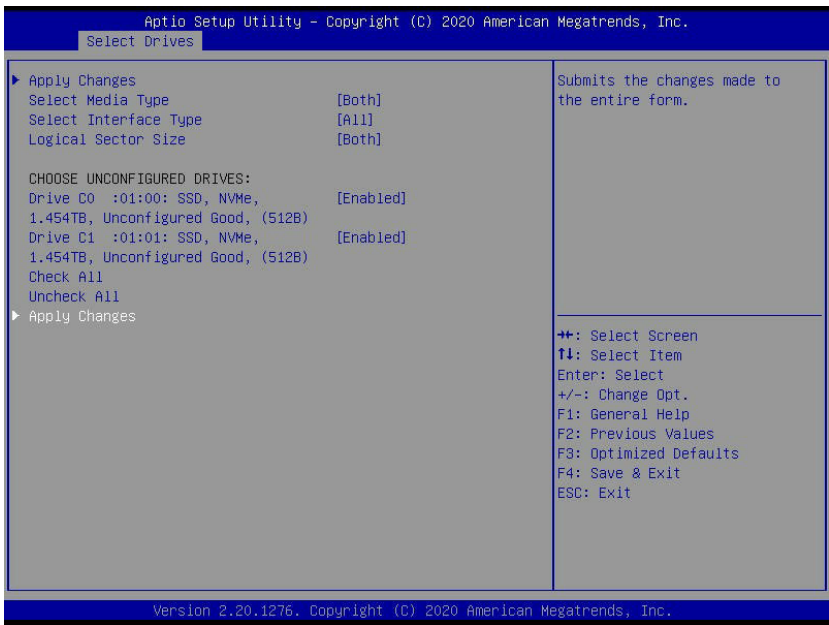
<ul style="list-style-type: none"> <li>▶ Save Configuration</li> <li>Select RAID Level [RAID1]</li> <li>Secure Virtual Drive [Disabled]</li> <li>Unmap Capability [Disabled]</li> <li>Select Drives From [Unconfigured Capacity]</li> <li>▶ Select Drives</li> </ul> <p>CONFIGURE VIRTUAL DRIVE PARAMETERS:</p> <ul style="list-style-type: none"> <li>Virtual Drive Name</li> <li>Virtual Drive Size</li> <li>Virtual Drive Size Unit [GB]</li> <li>Strip Size [64 KB]</li> <li>Read Policy [No Read Ahead]</li> <li>Write Policy [Write Through]</li> <li>I/O Policy [Direct]</li> <li>Access Policy [Read/Write]</li> <li>Drive Cache [Unchanged]</li> <li>Disable Background Initialization [No]</li> <li>Default Initialization [No]</li> <li>Emulation Type [Default]</li> <li>▶ Save Configuration</li> </ul>	<p>Allows you to select drives for creating virtual drive.</p> <hr/> <p>↔: Select Screen              T1: Select Item              Enter: Select              +/-: Change Opt.              F1: General Help              F2: Previous Values              F3: Optimized Defaults              F4: Save &amp; Exit              ESC: Exit</p>
--	---

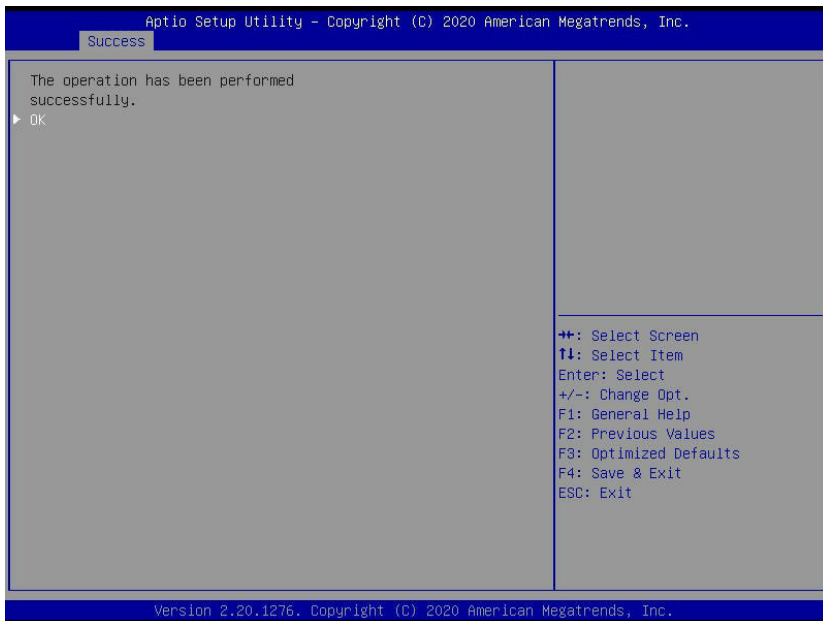
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9. On the Select Drives menu, select the unconfigured drives and choose Enabled.

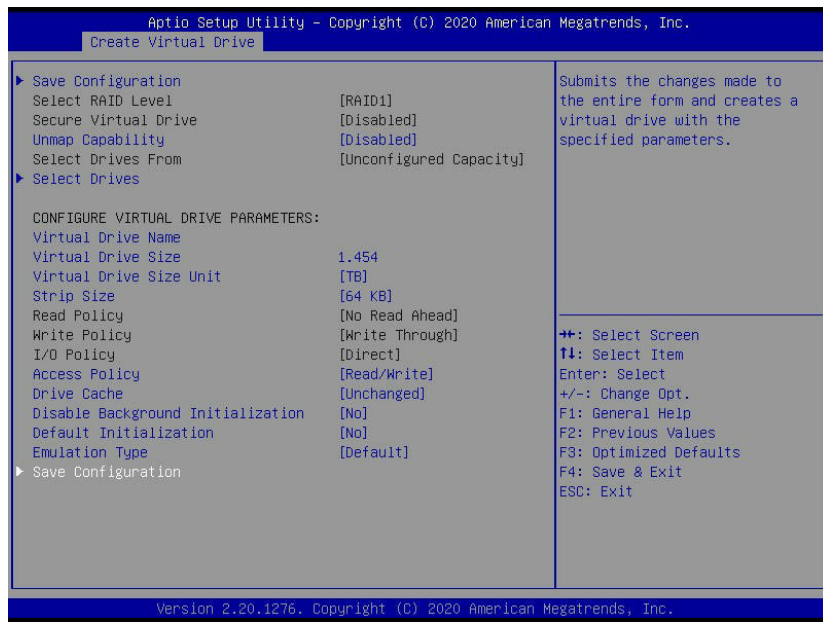


10. Select Apply Changes and press <Enter>.

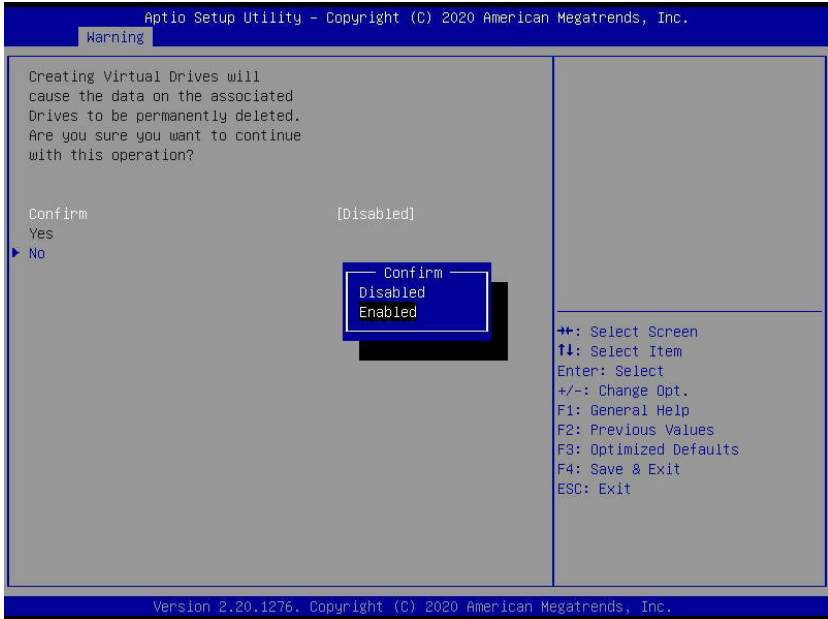




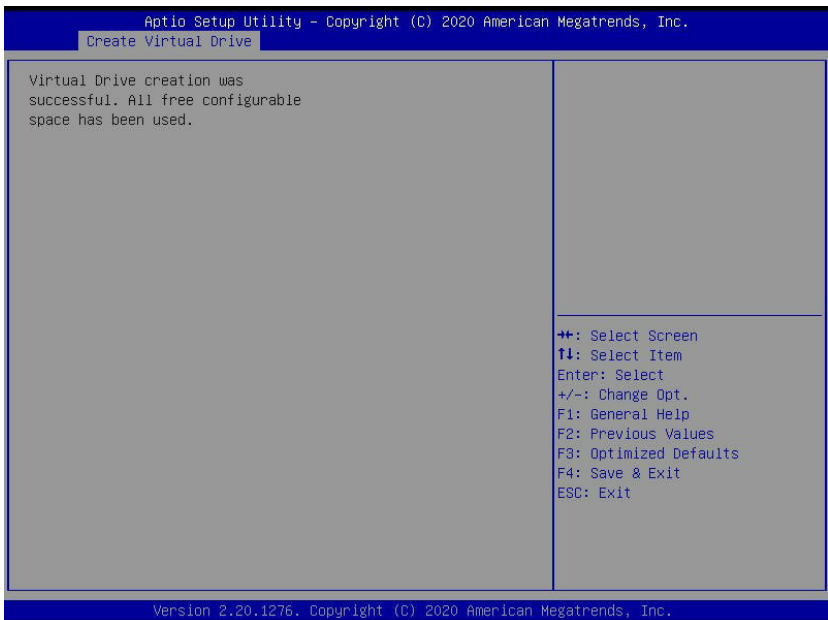
11. Press <ESC> to exit to the Create Virtual Drive menu. There, navigate to Save Configuration and press <Enter>.



## 11. Select the Yes option and then Confirm Enabled.



## 12. The below screen appears once Virtual Drive creation is successful.





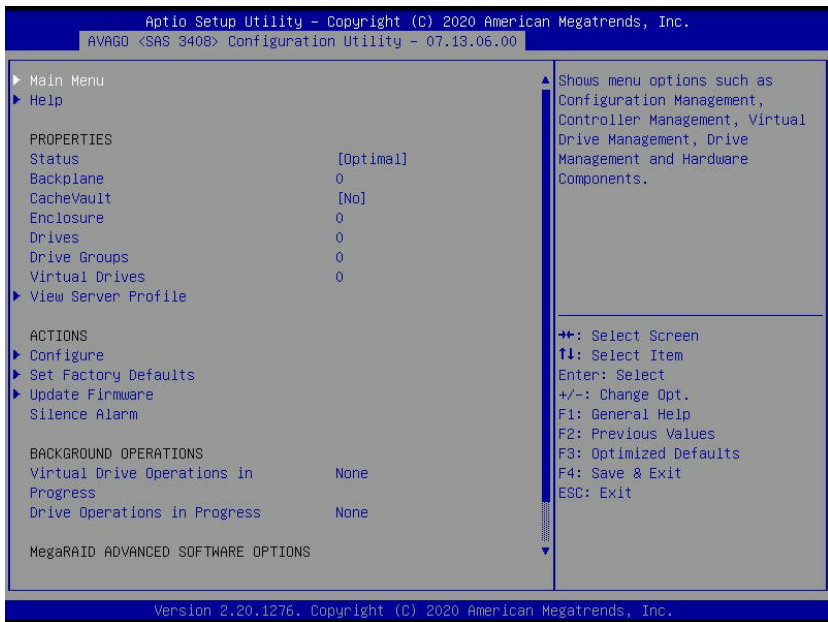
## Chapter 5

### Hybrid Drive Type Change

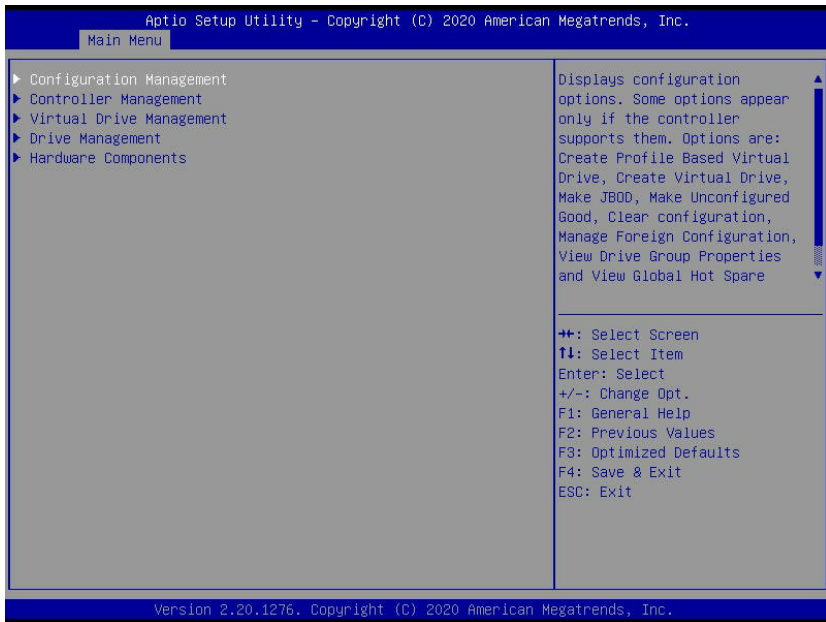
This chapter provides instructions on how to change the drive type through SATA or NVMe. By default, AOC-SLG3-2H8M2 has a SATA drive type. When changing the type, remove any installed M.2 device.

#### 5-1 Changing Drive Type under UEFI

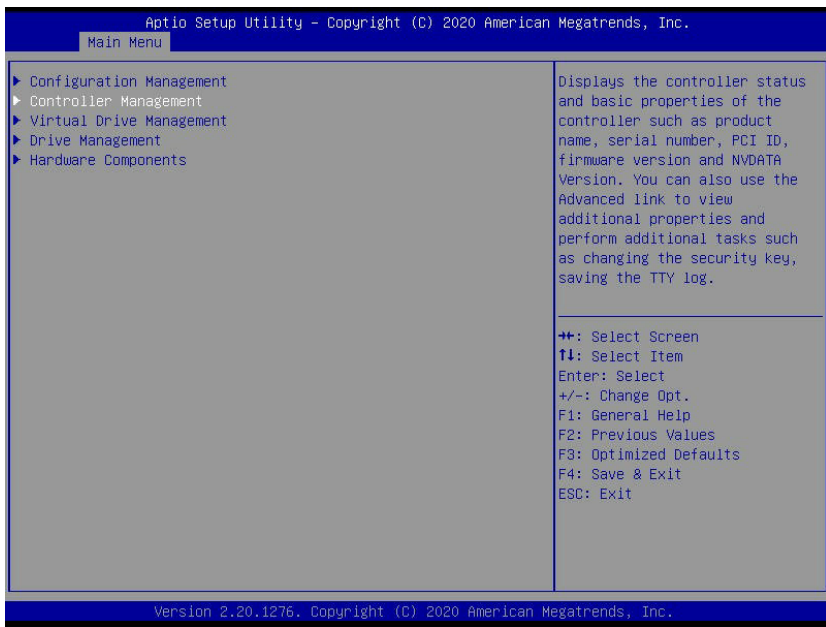
1. Select AVAGO <SAS 3408> Configuration Utility and enter the Main Menu.



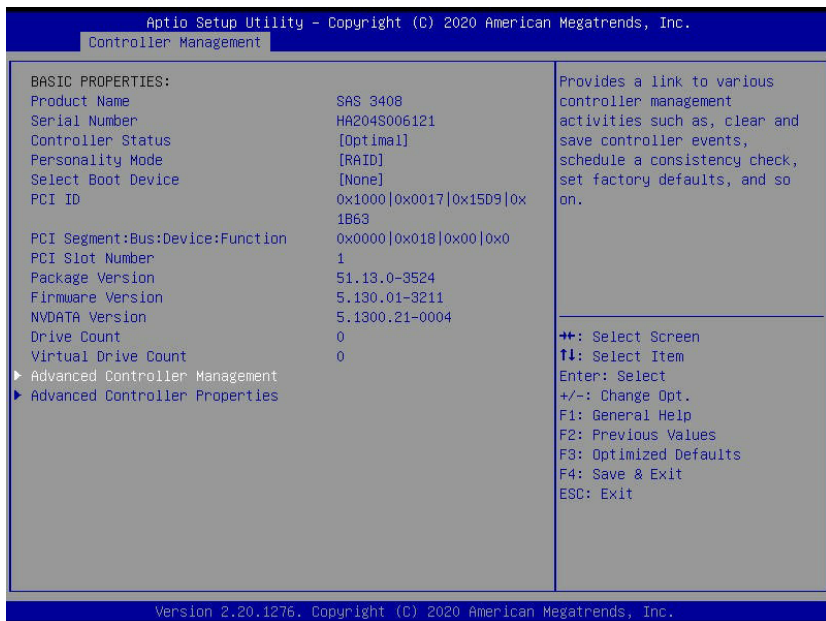




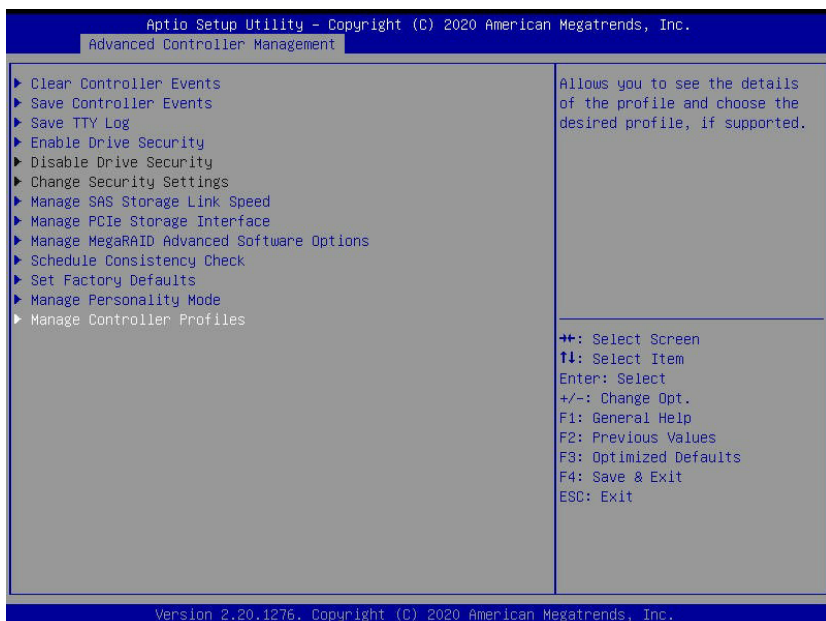
2. On the Main Menu, select Controller Management.



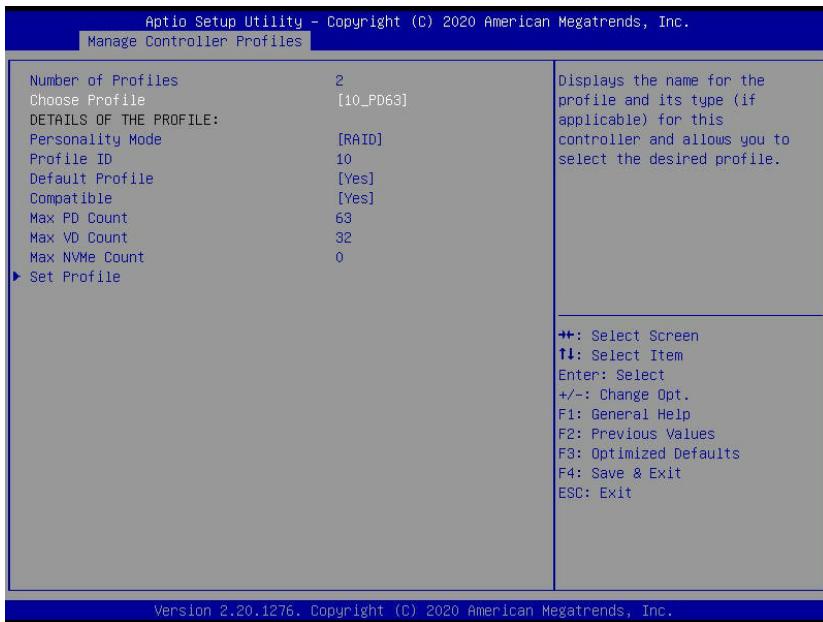
## 4. On the Controller Management menu, select Advanced Controller Management.



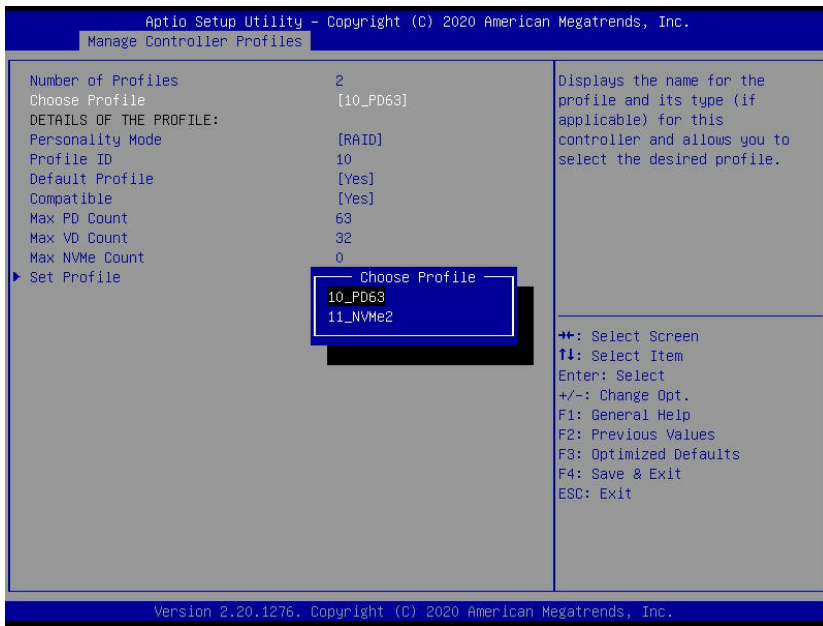
## 5. Enter Manage Controller Profiles.

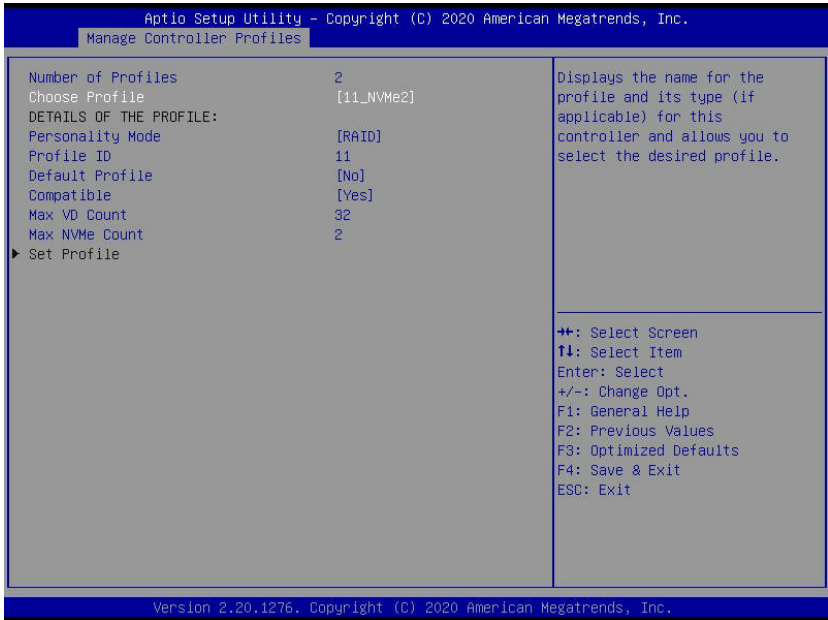


6. Select Choose Profile.



7. Select SATA mode (by default) for 10\_PD62 and NVMe mode for 11\_NVMe2.





8. Press <F4> to save and exit.

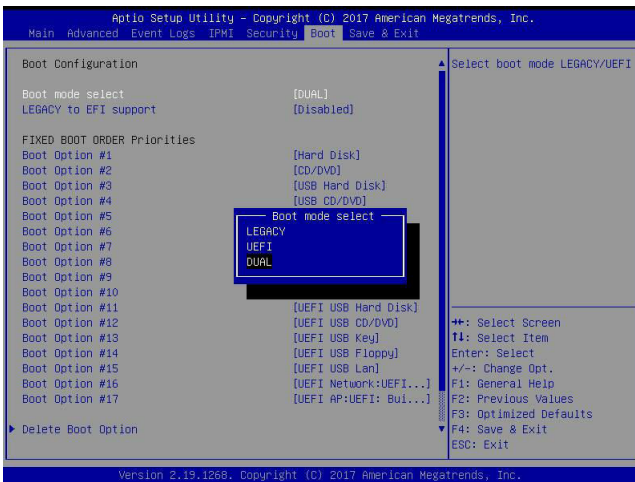
## Chapter 6

# Secure Boot Settings

Secure boot is a feature of UEFI (Unified Extensible Firmware Interface) that ensures boot loaders are digitally signed and validated. This chapter provides instructions on how to enable the secure boot features.

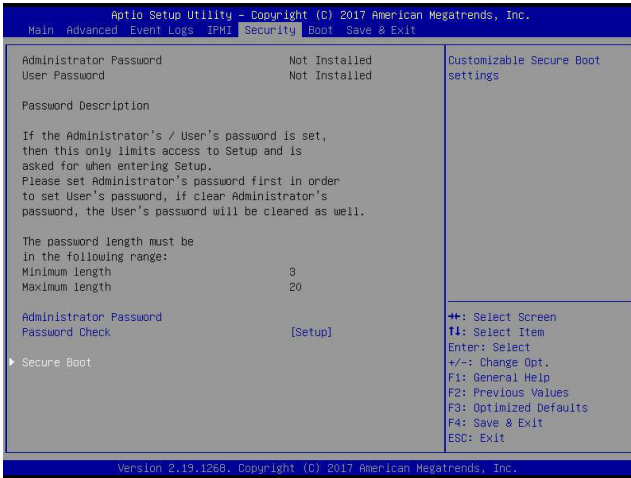
### 6-1 Boot Mode Select Feature

Press <DEL> during system boot to enter the BIOS Setup utility. Navigate to the Boot tab. Use the arrow keys to select Boot mode select and press <Enter>. The options are LEGACY, UEFI, and DUAL. Set Boot mode select to UEFI. For the changes to take effect, press <F4> to save the settings and exit the BIOS Setup utility.

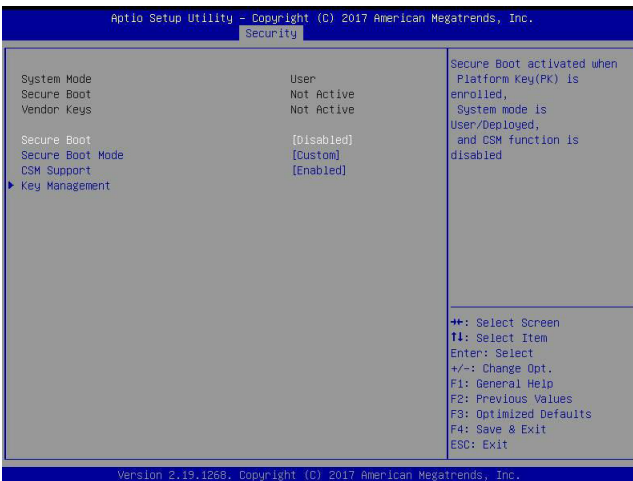


## 6-2 Secure Boot/Secure Boot Mode/CSM Support Features

Press <DEL> during system boot to enter the BIOS Setup utility. Navigate to the Security tab as shown below.



Use the arrow keys to select Secure Boot and press <Enter> to access the menu items. The following screen will appear.



## Secure Boot

This feature is available when the platform key (PK) is pre-registered where the platform operates in the User mode and compatibility support module (CSM) support is disabled in the BIOS Setup utility. Select Enabled for secure boot flow control. The options are **Disabled** and Enabled.

## Secure Boot Mode

Use this feature to set the secure boot mode. The options are Standard and **Custom**. Select Standard to load manufacturer's default secure variables. Select Custom to change the image execution policy and to manage secure boot keys.

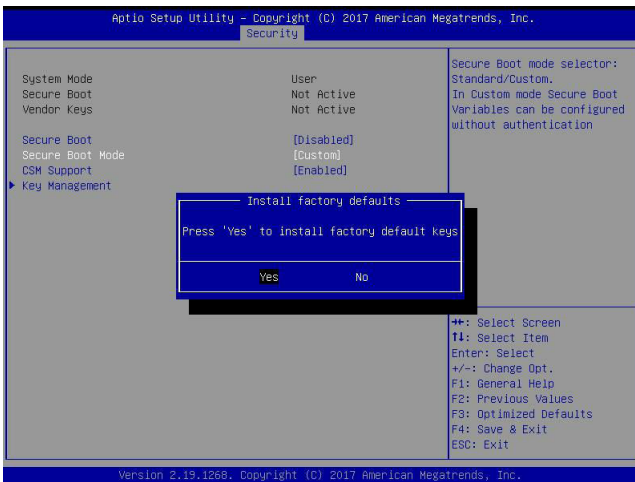
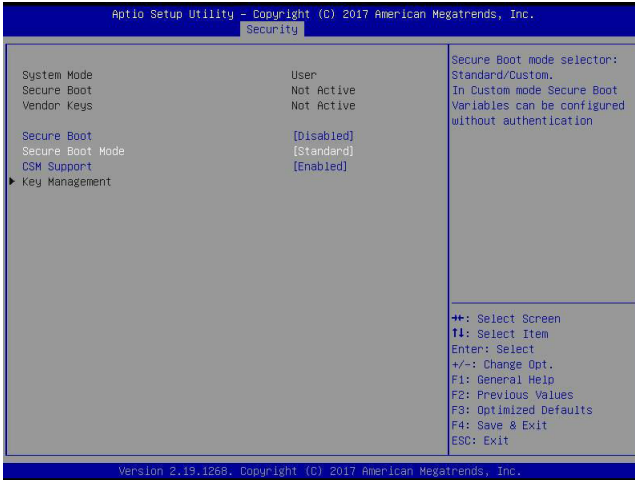
## CSM Support

Select Enabled to support the legacy CSM, which provides compatibility support for traditional legacy BIOS for system boot. The options are Disabled and **Enabled**.

## 6-3 Secure Boot Settings

To have secure boot support, follow the steps below.

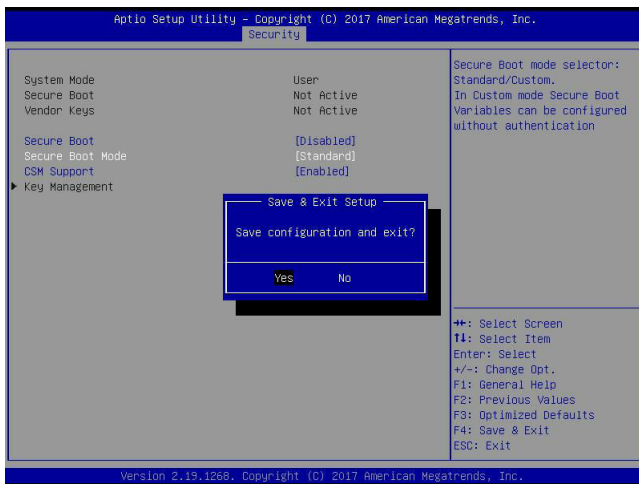
1. Set Secure Boot Mode to Standard. Press Yes to install factory default keys as needed.



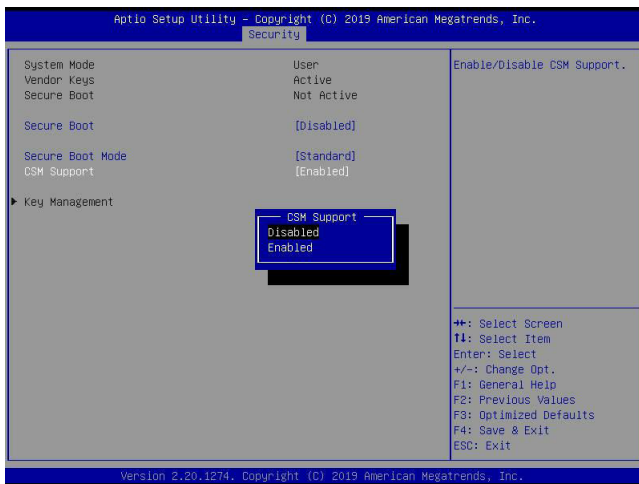
**Note:** The Key Management menu will become unavailable when Secure Boot Mode is set to Standard.



2. For the changes to take effect, press <F4> to save the settings and exit the BIOS Setup utility.

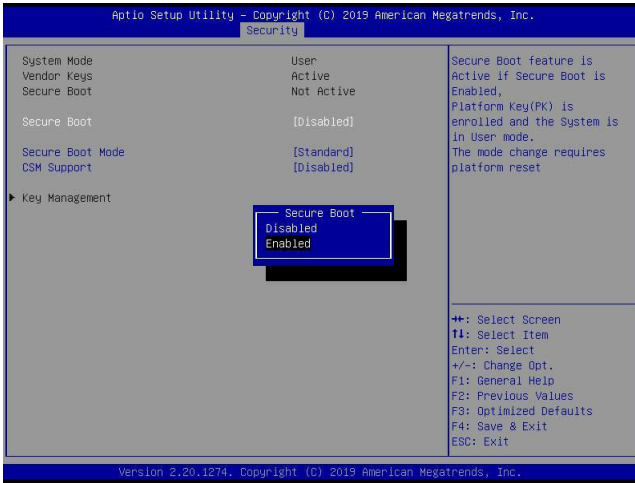


3. Press <DEL> during system boot to enter the BIOS Setup utility. Navigate to the Security tab and enter the Secure Boot menu. Set CSM Support to Disabled.

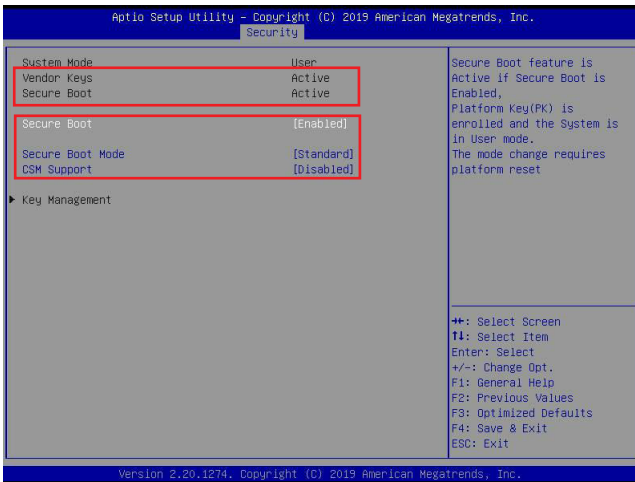


For the changes to take effect, press <F4> to save the settings and exit the BIOS Setup utility.

- Press <DEL> during system boot to enter the BIOS Setup utility. Navigate to the Security tab and enter the Secure Boot menu. Set Secure Boot to Enabled.

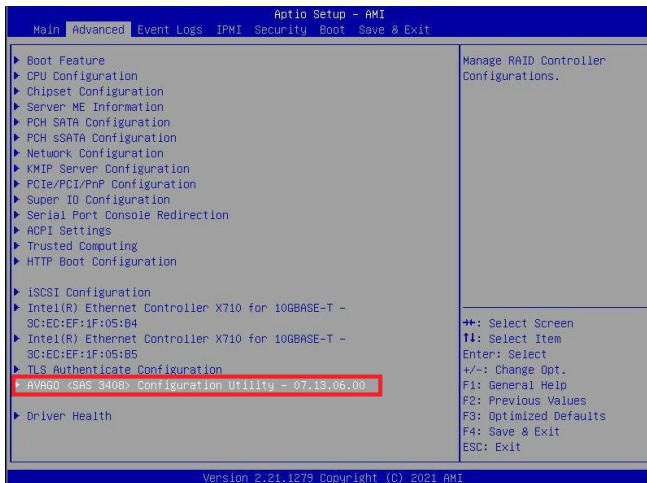


For the changes to take effect, press <F4> to save the settings and exit the BIOS Setup utility. Press <DEL> during system boot to enter the BIOS Setup utility. Navigate to the Security tab and enter the Secure Boot menu. The following screen will appear.

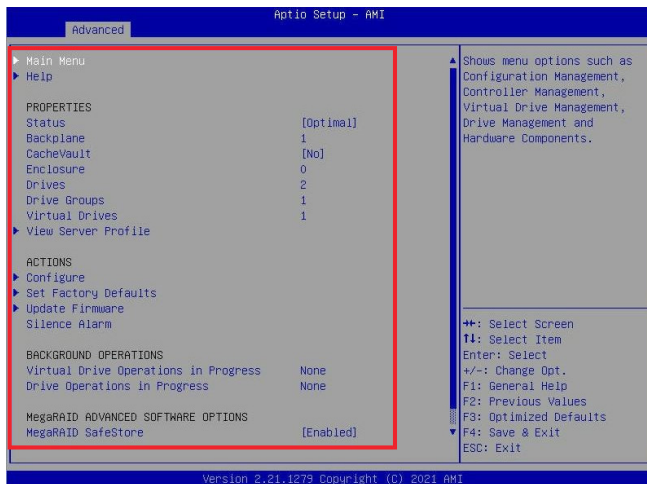


**Note:** Once Secure Boot is enabled, CSM Support will become disabled and the legacy environment is no longer valid. The authorized UEFI support such as UEFI OS, AOC UEFI FW, and UEFI PXE server are allowed.

5. Now that Secure Boot is enabled, navigate to the Advanced tab and select AVAGO <SAS 3408> Configuration Utility - 07.13.06.00.



The following screen will appear.



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