

Storage Configurator

Lenovo ThinkStation P340



Contents

SECTION 1 – INSTALLING NVME DEVICES TO SETUP RAID

SECTION 2 – INSTALLING HDD'S/SSD'S TO SETUP RAID

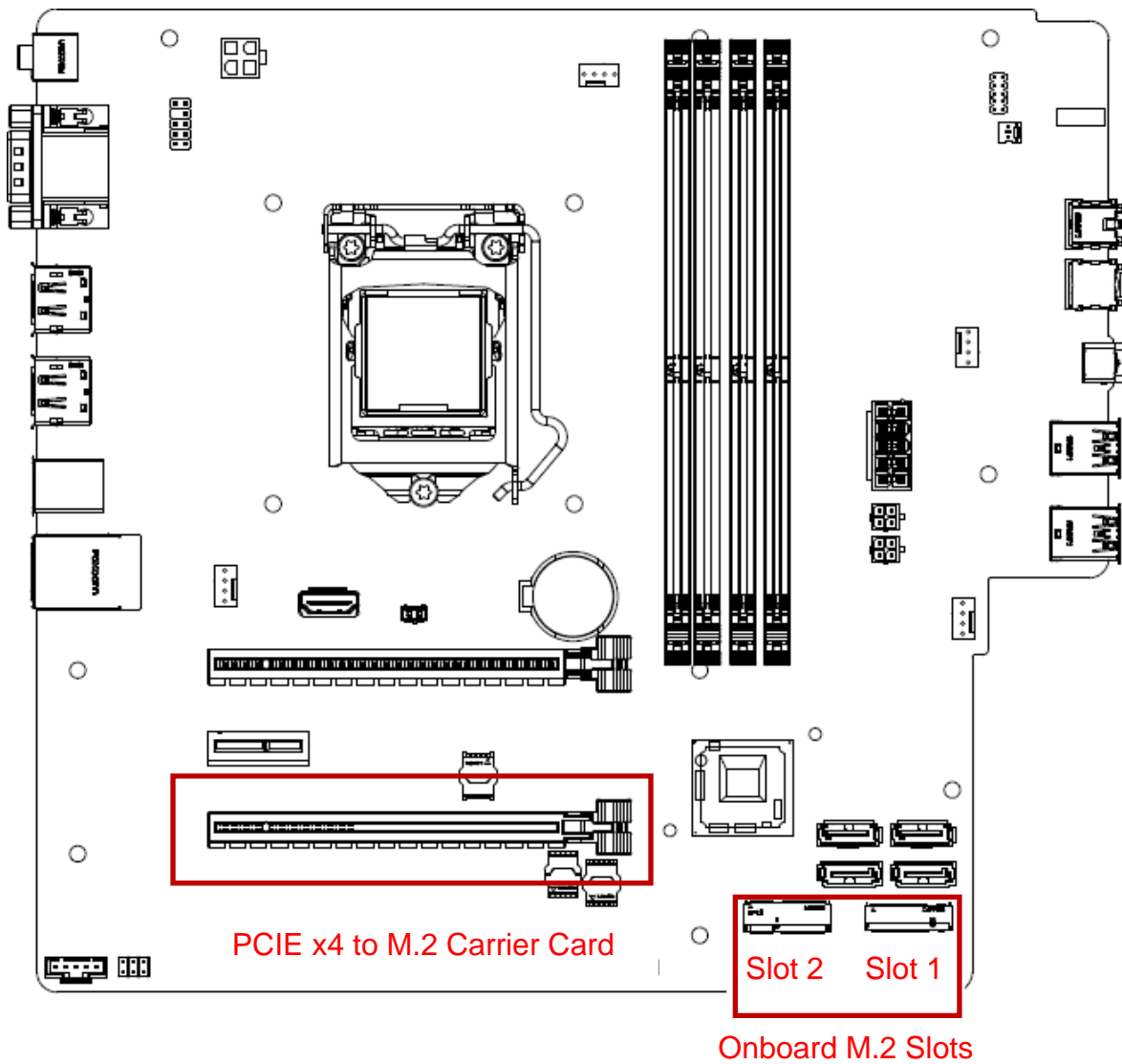
SECTION 3 – CONFIGURING NVME RAID FOR P340 TOWER & SFF

SECTION 4 – CONFIGURING SATA RAID FOR P340 TOWER & SFF

SECTION 5 – REVISION HISTORY

Section 1 – Installing NVMe Devices

Please make sure the NVMe devices are installed into the following PCIe slot locations on the ThinkStation P340 Tower and Small-Form Factor (SFF) motherboard.



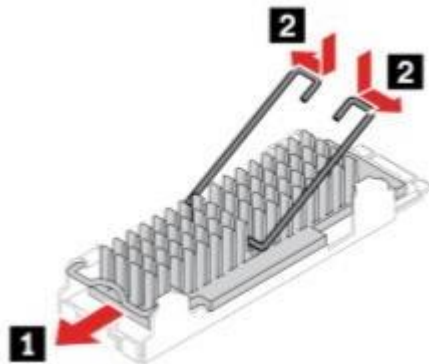
Note: The highlighted slots above are the only available slots that will allow the user to configure an NVMe RAID array on the ThinkStation P340 platform.

For M.2 NVMe drives in the onboard M.2 slots:

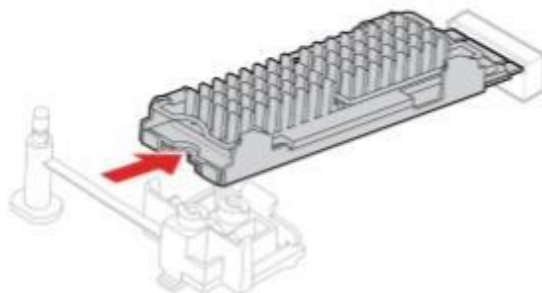
1. Remove the film that covers the thermal pad on the bracket, if any. Then, install the M.2 solid-state drive by sliding the drive in the bracket.



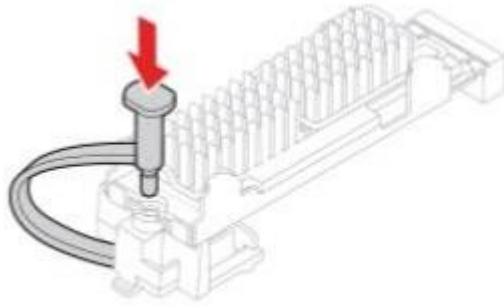
2. Remove the film that covers the thermal pad at the bottom of the heat sink, if any. Then, install the heat sink onto the M.2 drive in the bracket.



3. Install the heat sink with the bracket into the system.

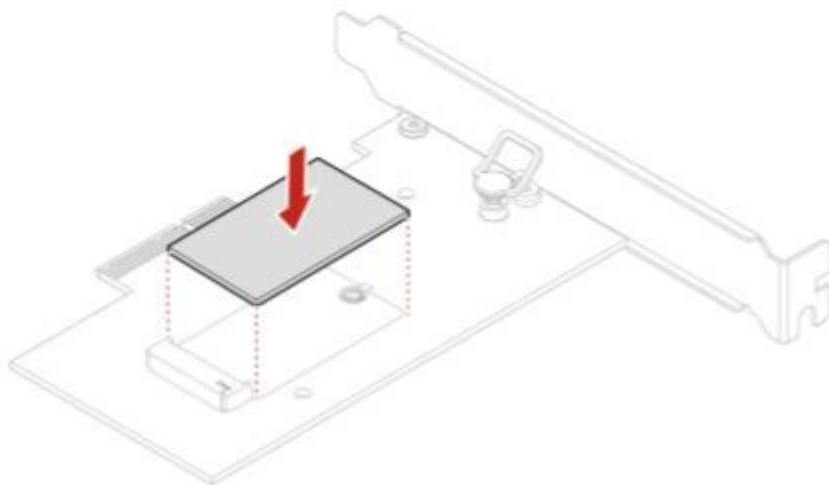


4. Insert the stopper.

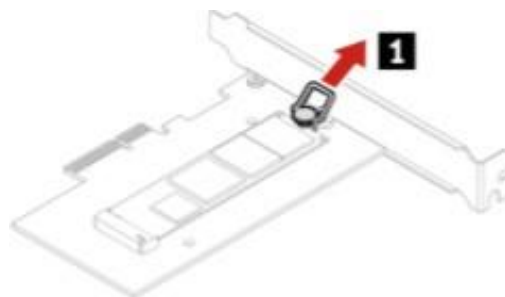


For M.2 NVMe drives installed in the Add-in Card:

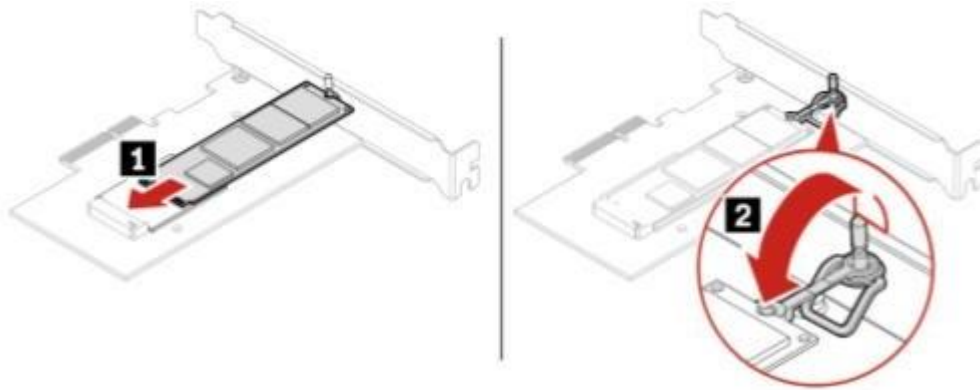
1. Ensure that a thermal pad is placed in position on the M.2 solid-state drive PCIe adapter.



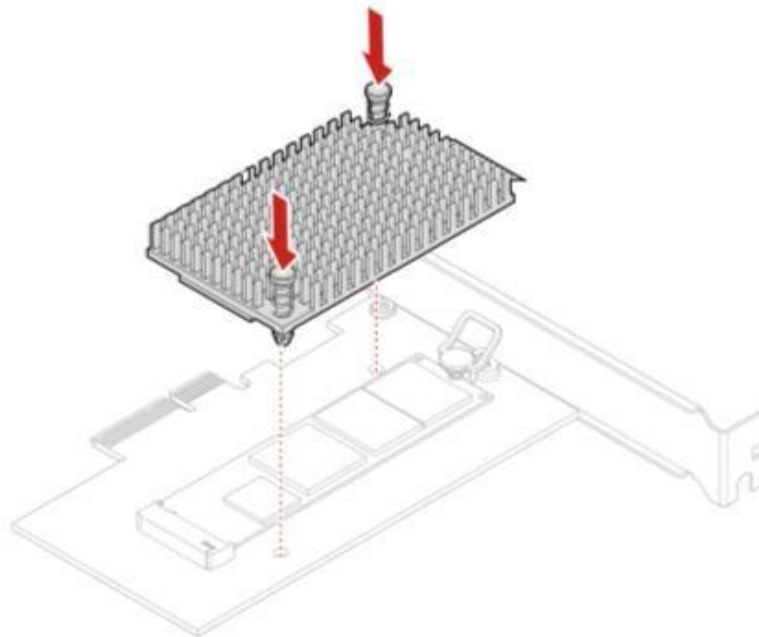
2. Pull the retention latch outward on the M.2 solid-state drive adapter.



3. Install the M.2 solid-state drive into the M.2 slot on the adapter, then insert the plug of the retention latch into the hole to secure the new drive.

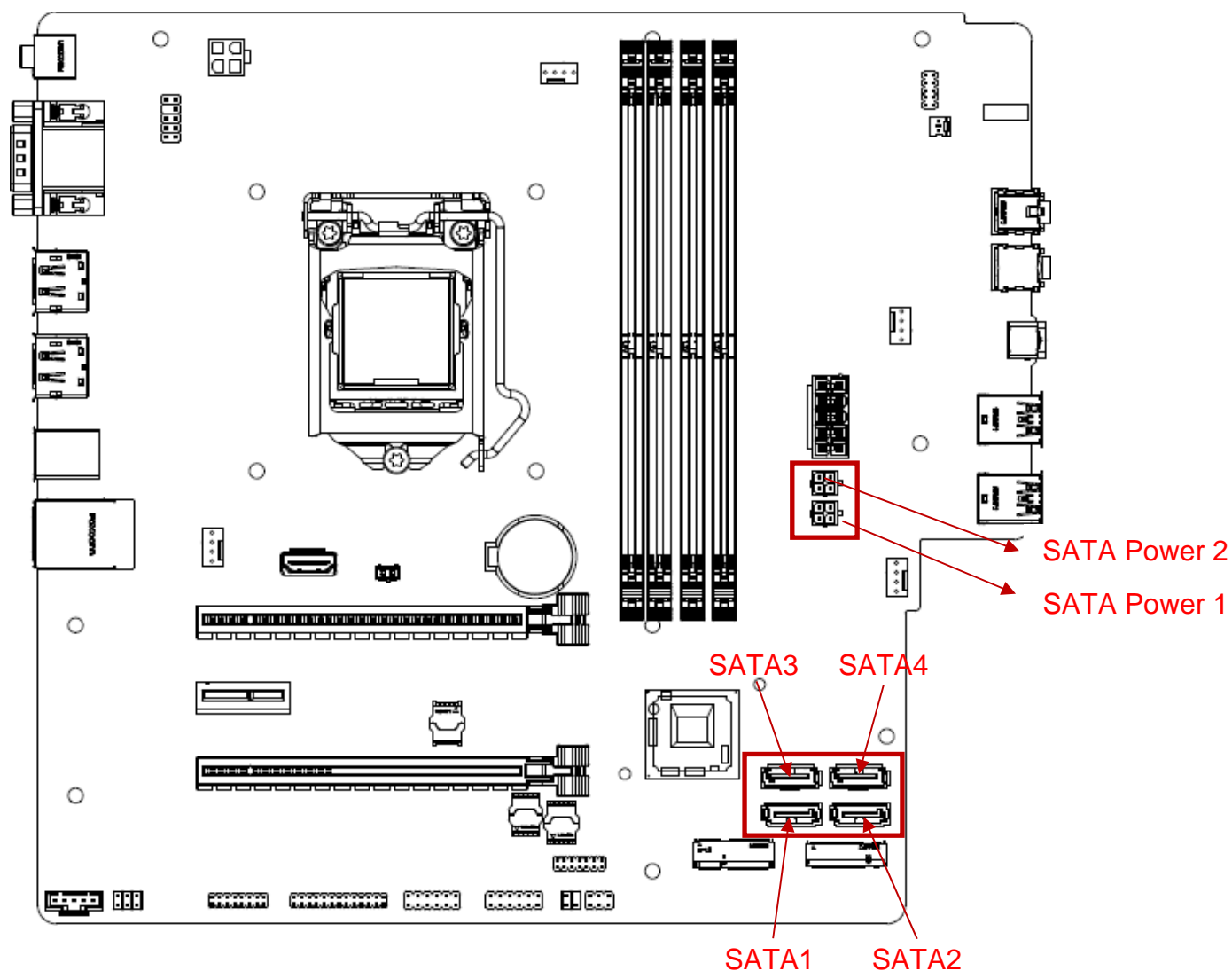


4. Position the heat sink on the M.2 solid-state drive PCIe adapter. Ensure that the two mounting studs in the heat sink are aligned with the holes in the M.2 solid-state drive PCIe adapter. Then, push the mounting studs downward to secure the heat sink to the adapter.



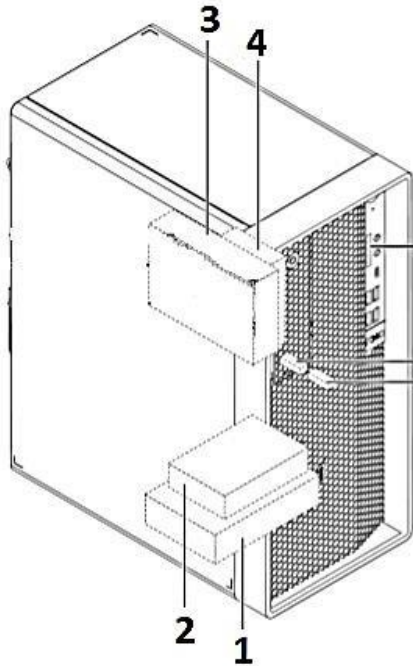
Section 2 – Installing HDD's/SSD's

The P340 is fairly limited on how many HDD's/SSD's can be installed in the P340 platform. Notice from the P340 motherboard screenshot that there are only four SATA port connections, labelled SATA1, SATA2, SATA3, and SATA4 in order as they show up in the system BIOS.

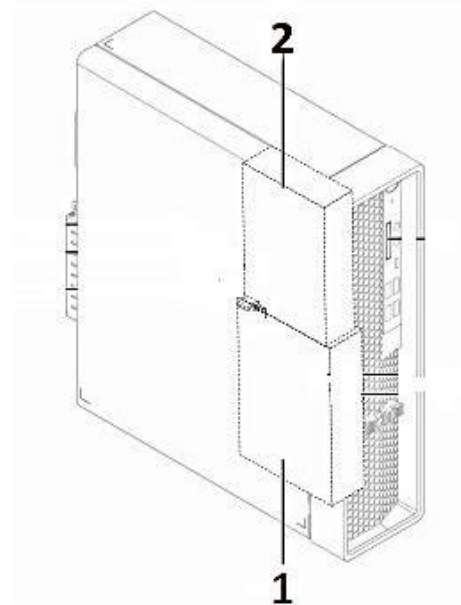


Note: Additional parts may be required to install additional HDD's/SSD's.

P340 Tower



P340 SFF



1 – 3.5" primary storage drive cage

2 – 2.5" primary storage drive cage

3 – Flex bay

- Flex storage enclosure
- Front-access storage enclosure

4 – 2.5" secondary storage drive cage

1 – 3.5" primary storage drive cage

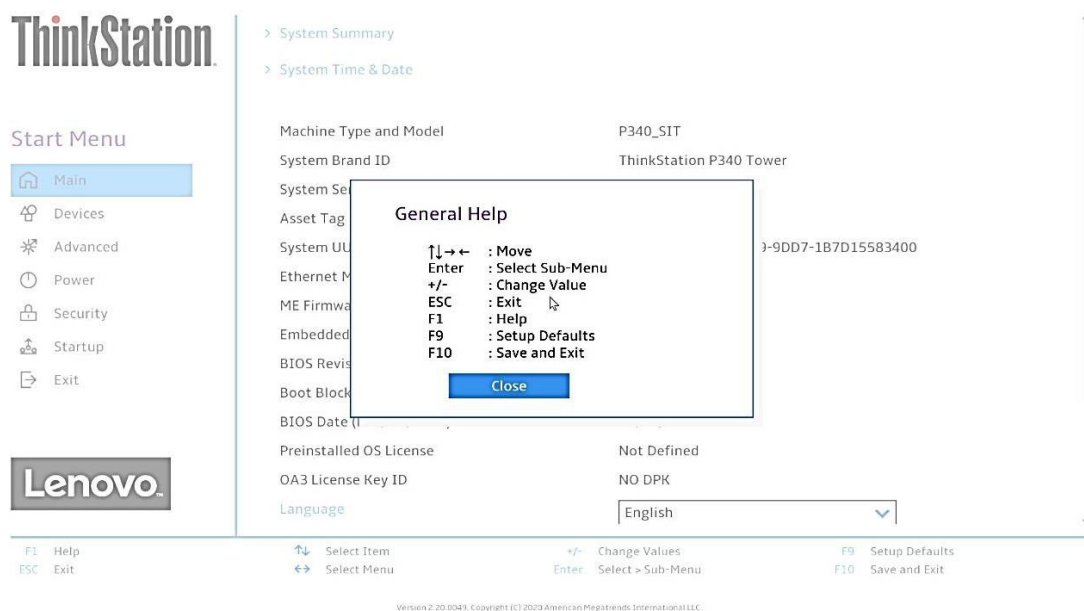
2 – 3.5" secondary storage drive cage

Note: Additional parts may be required to install 2.5" SATA drives in 3.5" bays.

Section 3 – Configuring NVMe RAID for P340 Tower & SFF

Please refer to the following steps to configure NVMe RAID.

1. Boot into BIOS by pressing the function F1 key at the “Lenovo” splash screen.





2. Select "System Summary" to verify BIOS is recognizing the NVMe drives.

The screenshot shows the BIOS System Summary screen. The 'System Summary' menu item is highlighted with a red box. The screen displays various system information including Machine Type and Model, System Brand ID, System Serial Number, Asset Tag, System UUID, Ethernet MAC Address, ME Firmware Version, Embedded Controller Version, BIOS Revision Level, Boot Block Revision Level, BIOS Date (MM/DD/YYYY), Preinstalled OS License, OA3 License Key ID, and Language (English).

Item	Value
Machine Type and Model	P340_SIT
System Brand ID	ThinkStation P340 Tower
System Serial Number	0000008
Asset Tag	
System UUID	89EAD680-0DC8-11E9-9DD7-1B7D15583400
Ethernet MAC Address	00-D8-61-E9-C0-88
ME Firmware Version	14.0.31.1120
Embedded Controller Version	S08CT07A
BIOS Revision Level	S08KT05A
Boot Block Revision Level	0.05
BIOS Date (MM/DD/YYYY)	02/25/2020
Preinstalled OS License	Not Defined
OA3 License Key ID	NO DPK
Language	English

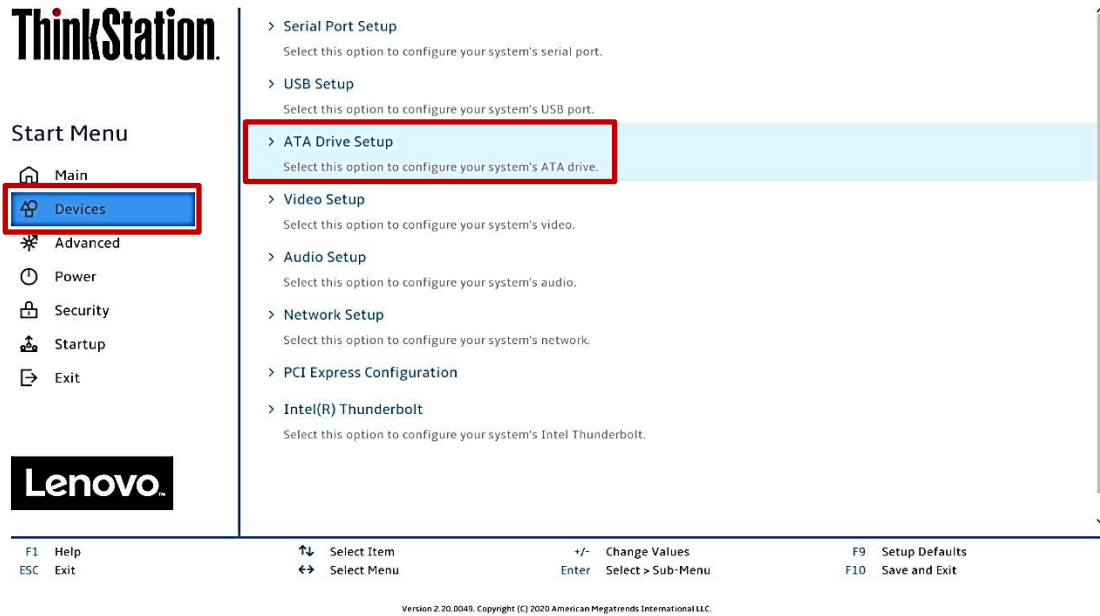
Navigation keys: F1 Help, ESC Exit, ↑ Select Item, ↓ Select Menu, +/- Change Values, Enter Select > Sub-Menu, F9 Setup Defaults, F10 Save and Exit.

The screenshot shows the BIOS System Summary screen with the 'System Summary' menu item selected. The screen displays various system information including CPU Type, CPU Speed, CPU Core Count, Installed Memory, Memory Bus Speed, Active Video, Onboard Audio, Onboard Ethernet, CPU Fan, System Fan, Aux Fan, Aux Fan 2, M.2 Drive 1, M.2 Drive 2, PCIe Drive 1, and PCIe Drive 2. The M.2 Drive 1, M.2 Drive 2, and PCIe Drive 1 entries are highlighted with a red box, showing they are all SAMSUNG MZVKW512HMJP-000L7.

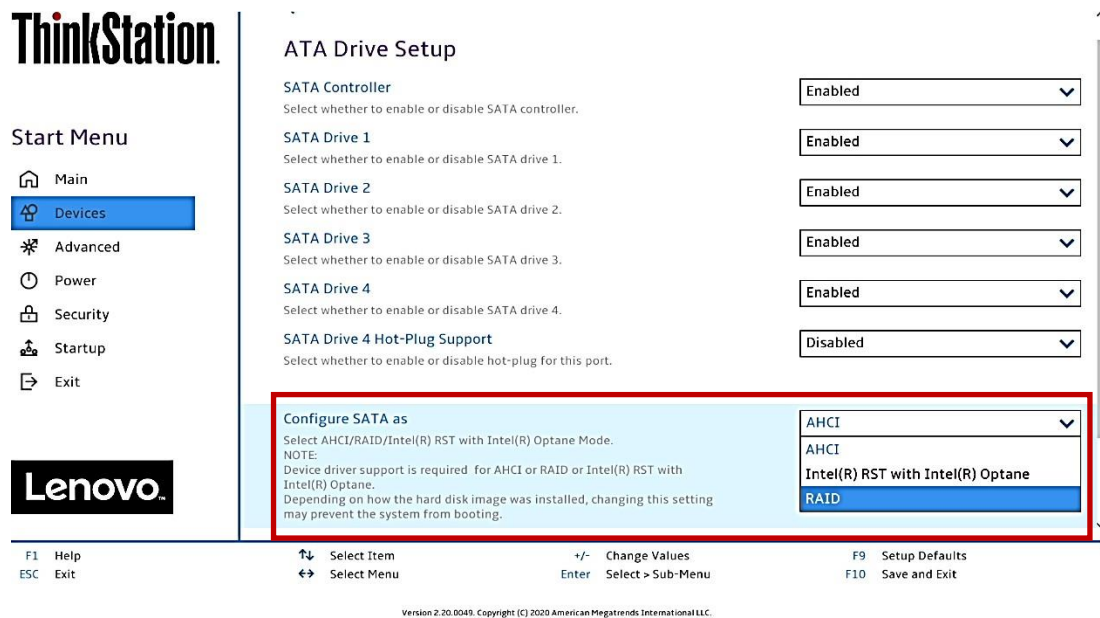
Item	Value
CPU Type	Intel(R) Core(TM) i5-10400 CPU @ 2.90GHz
CPU Speed	2.90 GHz
CPU Core Count	6
Installed Memory	4096 MB
Memory Bus Speed	2666 MHz
Active Video	PEG
Onboard Audio	Enabled
Onboard Ethernet	Enabled
CPU Fan	Operating
System Fan	Operating
Aux Fan	Not Operating
Aux Fan 2	Not Operating
M.2 Drive 1	SAMSUNG MZVKW512HMJP-000L7
M.2 Drive 2	SAMSUNG MZVKW512HMJP-000L7
PCIe Drive 1	SAMSUNG MZVKW512HMJP-000L7
PCIe Drive 2	None

Navigation keys: F1 Help, ESC Exit, ↑ Select Item, ↓ Select Menu, +/- Change Values, Enter Select > Sub-Menu, F9 Setup Defaults, F10 Save and Exit.

3. Select the “Devices” menu at the BIOS main screen setup utility and “ATA Drive Setup”.

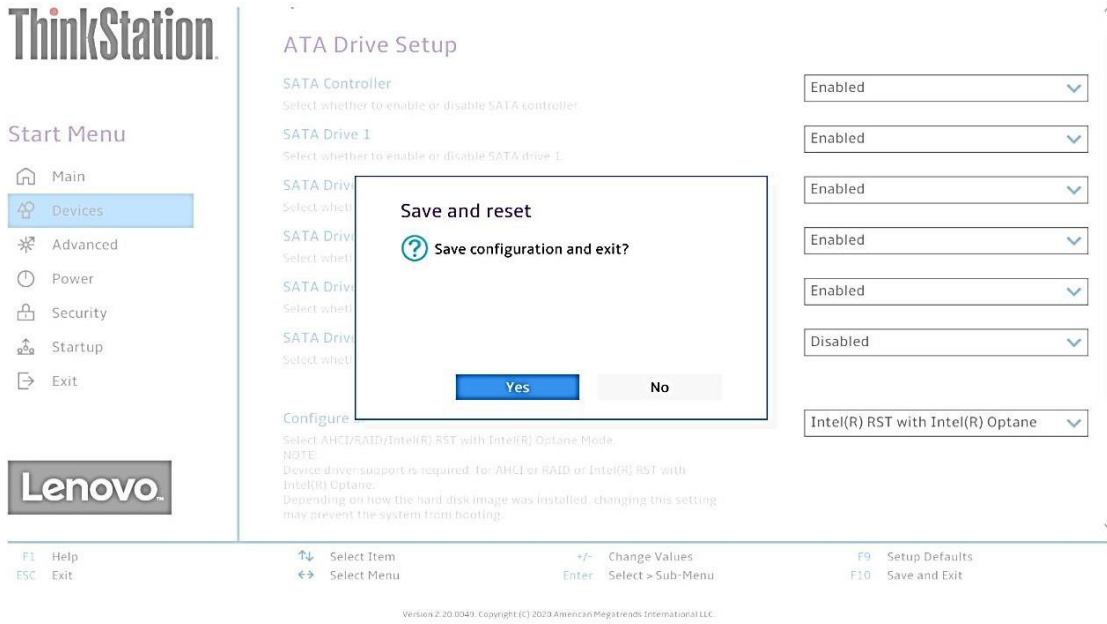


4. In the “ATA Drive Setup” menu, select “Configure SATA as” and change the option to “RAID”.

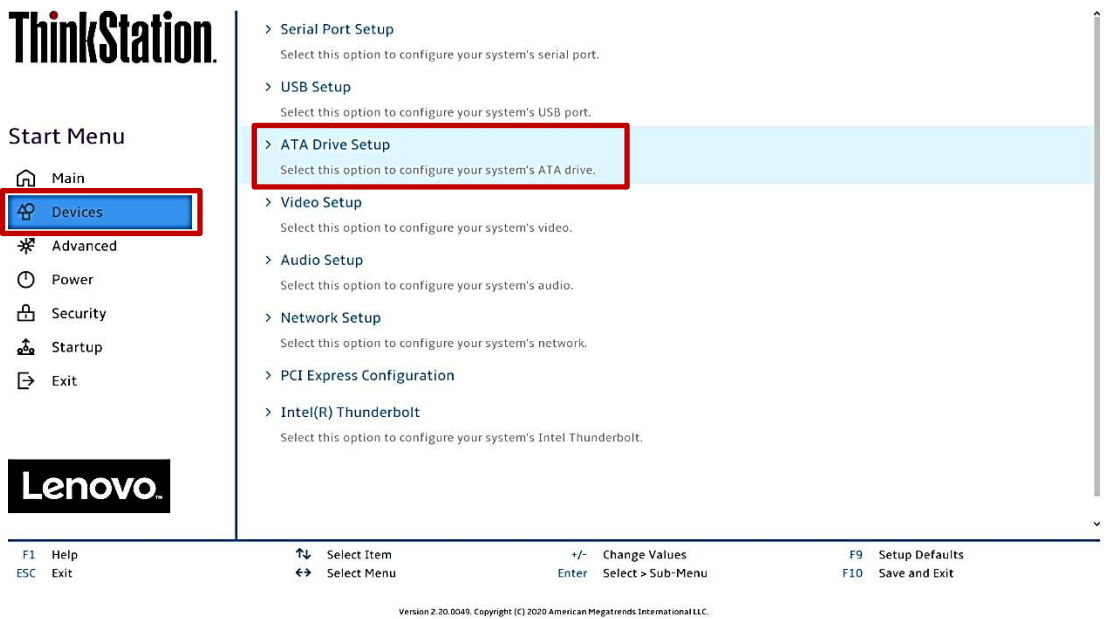


Note: In order to secure erase NVMe drives, the ‘Configure SATA as’ option must be set to ‘AHCI’ mode.

5. Press F10 to Save and Exit BIOS setup.



6. As the system reboots, press the function F1 key to go back into BIOS setup. Select the “Devices” menu at the BIOS main screen setup utility and “ATA Drive Setup”.



7. Select the “Intel® Rapid Storage Technology” option.

ThinkStation

Start Menu

- Main
- Devices**
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

SATA Drive 2: Enabled

SATA Drive 3: Enabled

SATA Drive 4: Enabled

SATA Drive 4 Hot-Plug Support: Disabled

Configure SATA as: RAID

> Intel(R) Rapid Storage Technology

Hard Disk Pre-delay: Disabled

F1 Help, ESC Exit, Select Item, Select Menu, Change Values, Enter, Select > Sub-Menu, F9 Setup Defaults, F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

8. Select “Create RAID volume”.

ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

Intel(R) Rapid Storage Technology

Intel(R) RST 17.8.4.4671 RAID Driver

> Create RAID Volume

Non-RAID Physical Disks:

- PCIe 1.0, SAMSUNG MZVKW512HMJP-000L7 S35BNA0J700115, 476.9GB
- PCIe 3.0, SAMSUNG MZVKW512HMJP-000L7 S35BNA0J700115, 476.9GB

F1 Help, ESC Exit, Select Item, Select Menu, Change Values, Enter, Select > Sub-Menu, F9 Setup Defaults, F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

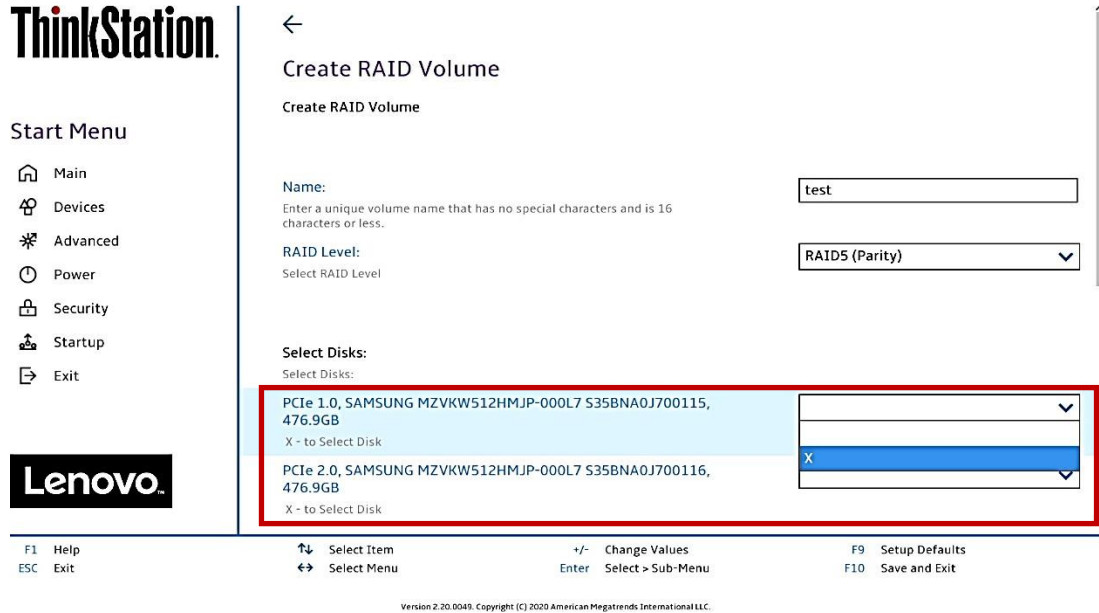
- At the “Create RAID Volume” menu, select “Name:” and enter a unique RAID array name.

Note: In this example, the RAID array is named “test”.

- At the “Create RAID Volume” menu, select “RAID Level” and choose one of the options listed.

Note: Only the available RAID options will be listed here.

11. At the “Create RAID Volume” menu, select the dropdown menu box next to each drive and select the “X”. The dropdown to the right of the drive option should go from [] to [X].



ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

←
Create RAID Volume

Create RAID Volume

Name:
Enter a unique volume name that has no special characters and is 16 characters or less.

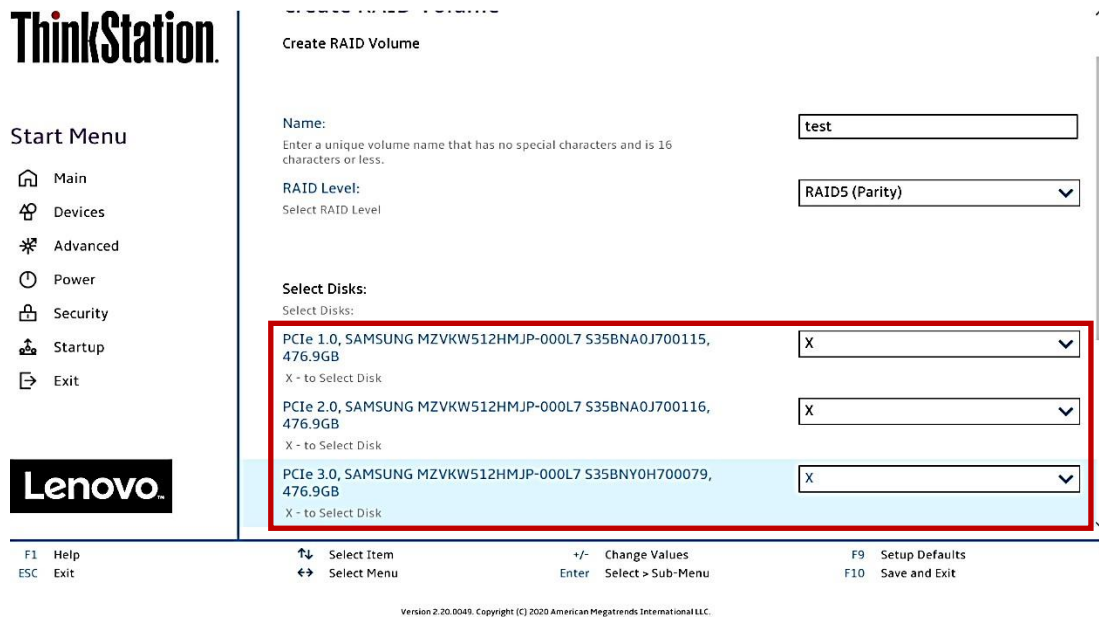
RAID Level:
Select RAID Level

Select Disks:
Select Disks:

PCIe 1.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700115, 476.9GB X - to Select Disk	<input type="text" value="X"/>
PCIe 2.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700116, 476.9GB X - to Select Disk	<input type="text" value="X"/>

F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ←↔ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.



ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

Create RAID Volume

Name:
Enter a unique volume name that has no special characters and is 16 characters or less.

RAID Level:
Select RAID Level

Select Disks:
Select Disks:

PCIe 1.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700115, 476.9GB X - to Select Disk	<input type="text" value="X"/>
PCIe 2.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700116, 476.9GB X - to Select Disk	<input type="text" value="X"/>
PCIe 3.0, SAMSUNG MZVKW512HJJP-000L7 S35BNY0H700079, 476.9GB X - to Select Disk	<input type="text" value="X"/>

F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ←↔ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.



12. Select "Create Volume" at the bottom of the menu.

The screenshot shows the RAID configuration interface. On the left is the 'Start Menu' with options: Main, Devices, Advanced, Power, Security, Startup, and Exit. The main area lists three disks, each with a dropdown menu set to 'X'. Below the disks are settings for 'Strip Size' (32KB) and 'Capacity (MB)' (976768). At the bottom, the 'Create Volume' option is highlighted with a red box, with the subtext 'Create a volume with the settings specified above'. A navigation bar at the bottom includes: F1 Help, ESC Exit, Select Item, Select Menu, Change Values, Enter Select > Sub-Menu, Setup Defaults, and Save and Exit. The footer contains the text: 'Version 2.20.0049. Copyright (C) 2020 American Megatrends International LLC.'

13. Verify the RAID volume was created at the very next screen.

The screenshot shows the RAID configuration interface. On the left is the 'Start Menu' with options: Main, Devices, Advanced, Power, Security, Startup, and Exit. The main area displays 'Intel(R) Rapid Storage Technology' and 'Intel(R) RST 17.8.4.4671 RAID Driver'. Below this, the 'RAID Volumes:' section is visible, with a subtext 'List of recognized RAID Volumes on the system.' A single RAID volume is listed: 'test, RAID5 (Parity), 953.9GB, Normal', which is highlighted with a red box. Below the volume name is the instruction 'Select to see more information about the RAID Volume'. A navigation bar at the bottom includes: F1 Help, ESC Exit, Select Item, Select Menu, Change Values, Enter Select > Sub-Menu, Setup Defaults, and Save and Exit. The footer contains the text: 'Version 2.20.0049. Copyright (C) 2020 American Megatrends International LLC.'

14. To view information about the RAID array, select the RAID array on the previous step.

ThinkStation.

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

RAID VOLUME INFO

RAID VOLUME INFO

Volume Actions
List of actions available for RAID Volume

- > Delete

Name: test
Volume name

RAID Level: RAID5 (Parity)
RAID Level (type)

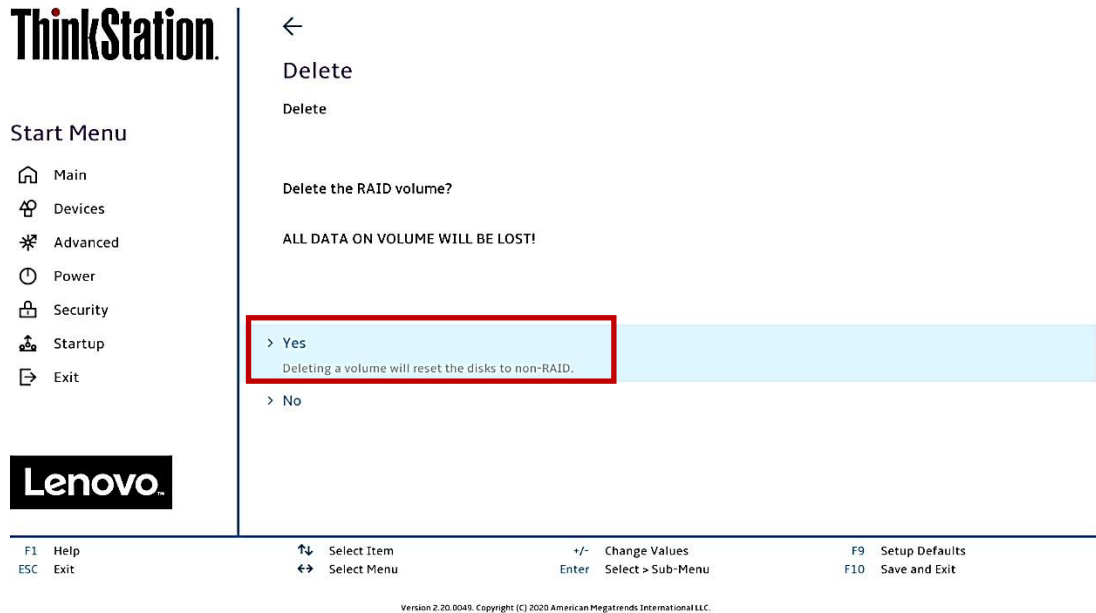
Strip Size: 32KB
Indicates the strip size of the RAID volume

F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
 ESC Exit ←→ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049. Copyright (C) 2020 American Megatrends International LLC.



15. To delete the RAID array, select “Delete” from the “RAID VOLUME INFO” from the previous step and confirm by selecting “Yes” at the very next menu option.

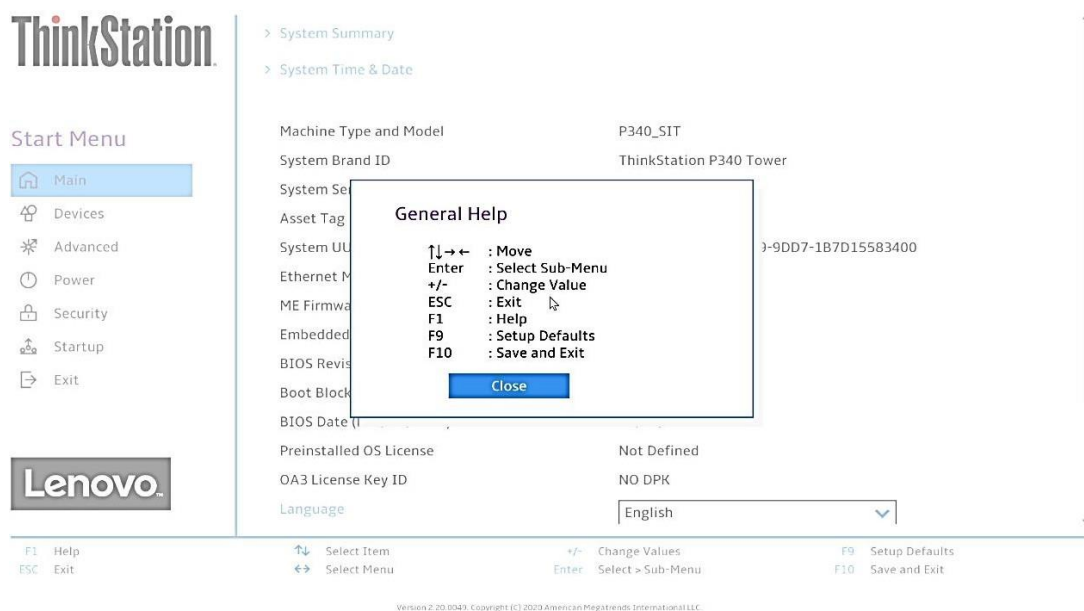


Note: The user may *not* see the RAID array show up in the BIOS boot sequence until after a bootable operating system has been installed on the RAID array.

Section 4 – Configuring SATA RAID for P340 Tower & SFF

Please refer to the following steps to configure SATA RAID.

1. Boot into BIOS by pressing the function F1 key at the “Lenovo” splash screen.



2. Select “System Summary” to verify BIOS is recognizing the SATA drives.



ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

> System Summary

> System Time & Date

Machine Type and Model	P340_SIT
System Brand ID	ThinkStation P340 Tower
System Serial Number	0000008
Asset Tag	
System UUID	89EAD680-0DC8-11E9-9DD7-1B7D15583400
Ethernet MAC Address	00-D8-61-E9-C0-88
ME Firmware Version	14.0.31.1120
Embedded Controller Version	S08CT07A
BIOS Revision Level	S08KT05A
Boot Block Revision Level	0.05
BIOS Date (MM/DD/YYYY)	02/25/2020
Preinstalled OS License	Not Defined
OA3 License Key ID	NO DPK
Language	English

F1 Help F9 Setup Defaults
 ESC Exit Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049. Copyright (C) 2020 American Megatrends International LLC.

ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

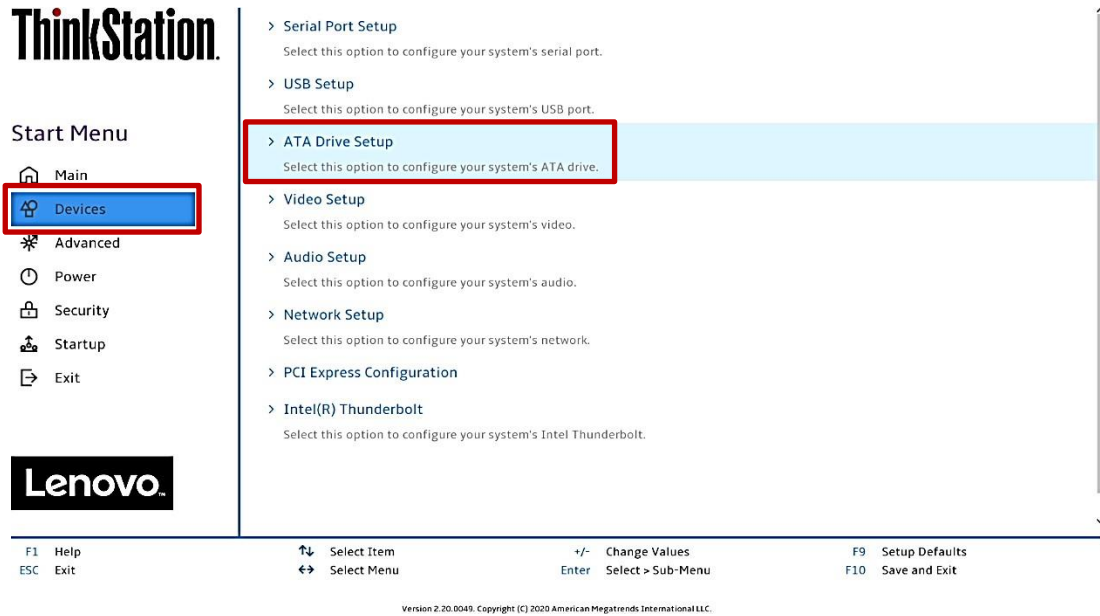
Lenovo

CPU Core Count	6
Installed Memory	4096 MB
Memory Bus Speed	2666 MHz
Active Video	PEG
Onboard Audio	Enabled
Onboard Ethernet	Enabled
CPU Fan	Operating
System Fan	Operating
Aux Fan	Not Operating
Aux Fan 2	Not Operating
M.2 Drive 1	SAMSUNG MZVKW512HMJP-000L7
M.2 Drive 2	SAMSUNG MZVKW512HMJP-000L7
PCIe Drive 1	SAMSUNG MZVKW512HMJP-000L7
PCIe Drive 2	None
SATA Drive 1	Hard Disk SanDisk SD8SB8U1T001001
SATA Drive 2	Hard Disk SanDisk SD8SB8U1T001001
SATA Drive 3	Hard Disk SanDisk SD8SB8U1T001001
SATA Drive 4	CD/DVD ROM HL-DT-ST DVD-ROM DUE0N

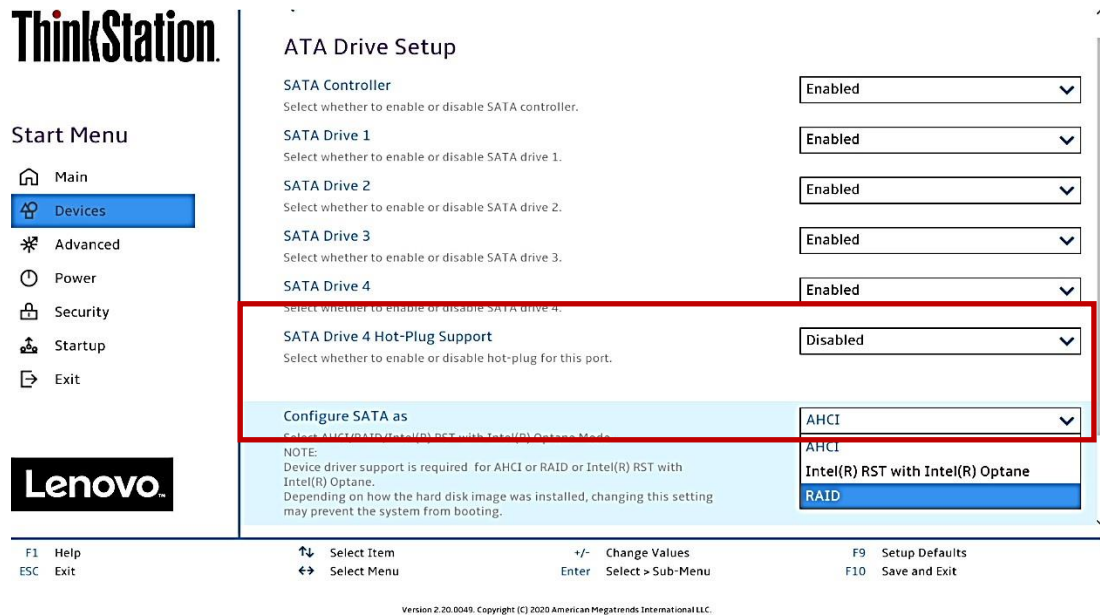
F1 Help F9 Setup Defaults
 ESC Exit Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049. Copyright (C) 2020 American Megatrends International LLC.

3. Select the “Devices” menu at the BIOS main screen setup utility and “ATA Drive Setup”.

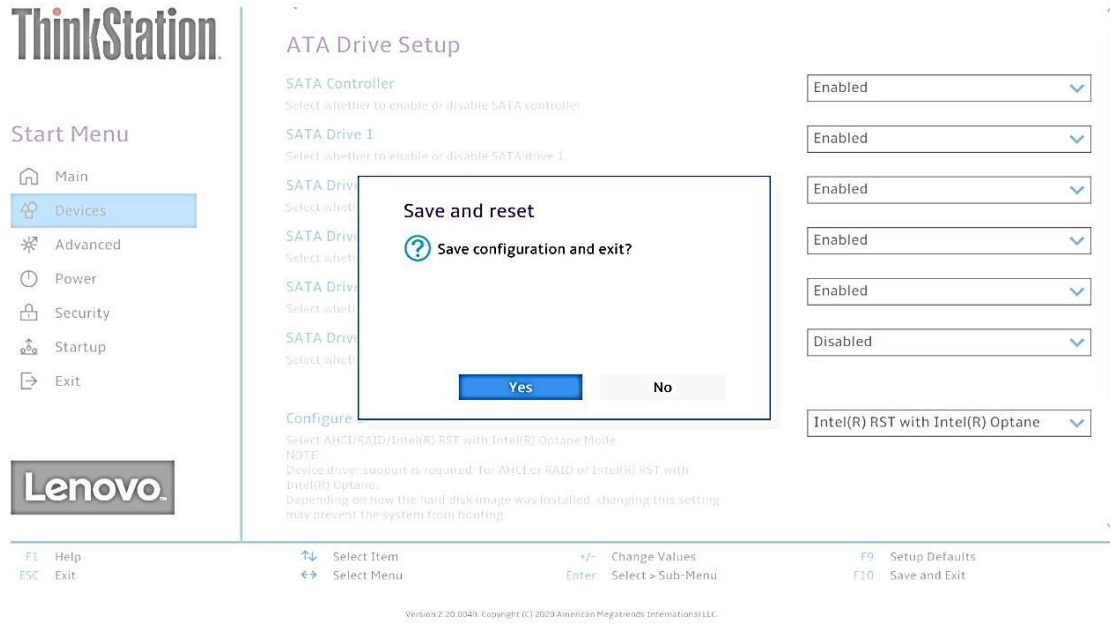


4. In the “ATA Drive Setup” menu, select “Configure SATA as” and change the option to “RAID”.

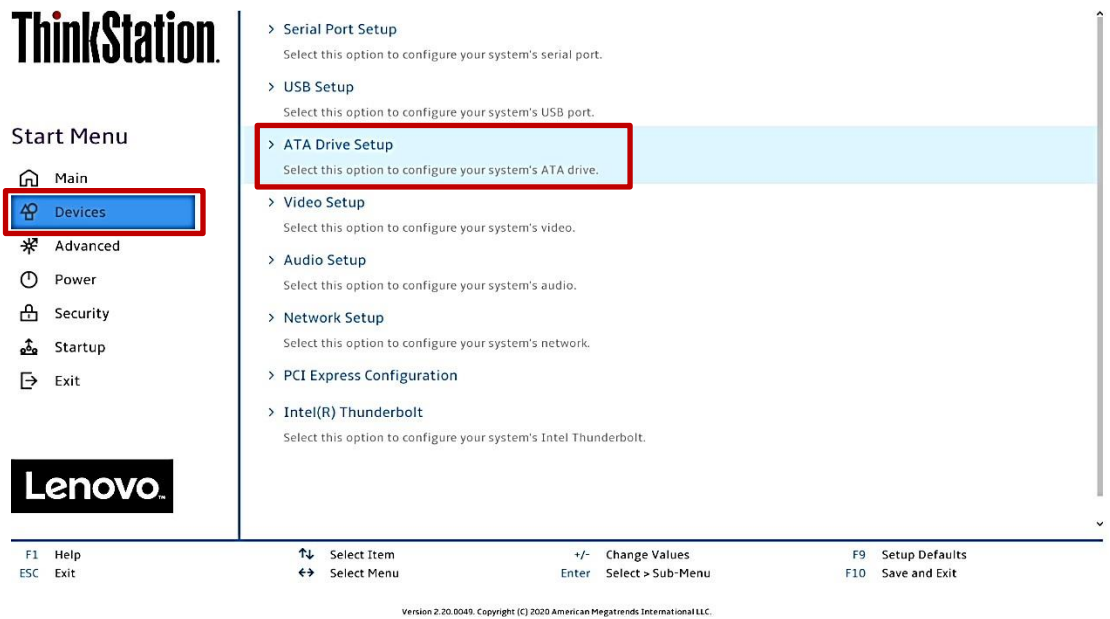


Note: In order to secure erase SATA drives, the ‘Configure SATA as’ option must be set to ‘AHCI’ mode.

5. Press F10 to Save and Exit BIOS setup.



6. As the system reboots, press the function F1 key to go back into BIOS setup. Select the “Devices” menu at the BIOS main screen setup utility and “ATA Drive Setup”.



7. Select the “Intel® Rapid Storage Technology” option.

ThinkStation

Start Menu

- Main
- Devices**
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

SATA Drive 2: Enabled

SATA Drive 3: Enabled

SATA Drive 4: Enabled

SATA Drive 4 Hot-Plug Support: Disabled

Configure SATA as: RAID

Intel(R) Rapid Storage Technology

Hard Disk Pre-delay: Disabled

F1 Help, ESC Exit, Select Item, Select Menu, Change Values, Enter Select > Sub-Menu, F9 Setup Defaults, F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

8. Select “Create RAID volume”.

ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

Intel(R) Rapid Storage Technology

Intel(R) RST 17.8.4.4671 RAID Driver

Create RAID Volume

Non-RAID Physical Disks:

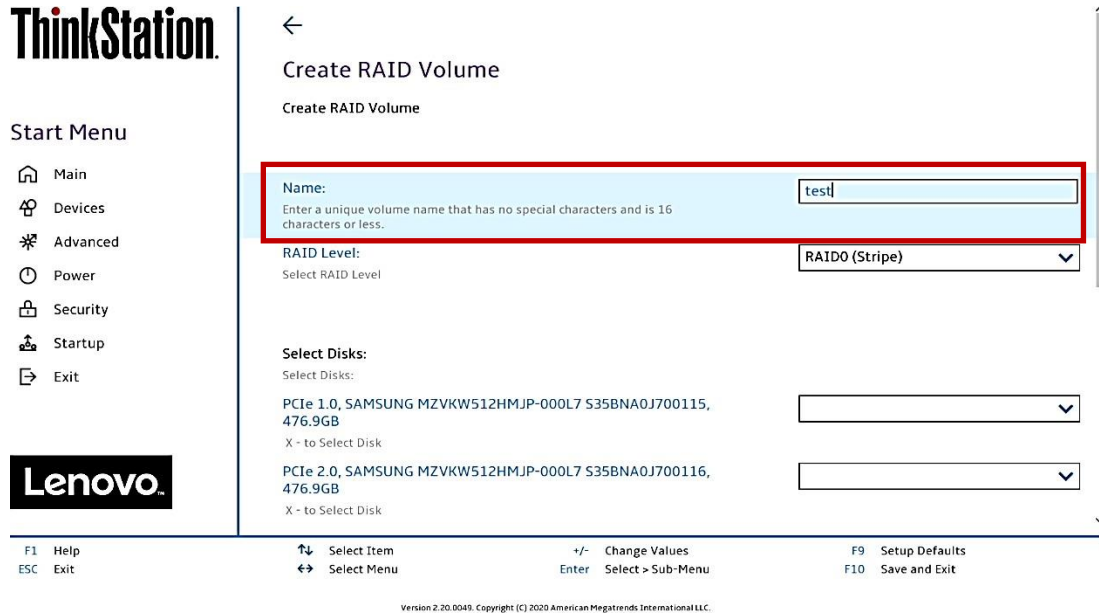
- PCIe 1.0, SAMSUNG MZVKW512HMJP-000L7 S35BNA0J700115, 476.9GB
- PCIe 3.0, SAMSUNG MZVKW512HMJP-000L7 S35BNA0J700115, 476.9GB

F1 Help, ESC Exit, Select Item, Select Menu, Change Values, Enter Select > Sub-Menu, F9 Setup Defaults, F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

- At the “Create RAID Volume” menu, select “Name:” and enter a unique RAID array name.

Note: In this example, the RAID array is named “test”.



ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

←
Create RAID Volume
Create RAID Volume

Name:
Enter a unique volume name that has no special characters and is 16 characters or less.

RAID Level:
Select RAID Level

Select Disks:
Select Disks:

PCIe 1.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNA0J700115, 476.9GB

X - to Select Disk

PCIe 2.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNA0J700116, 476.9GB

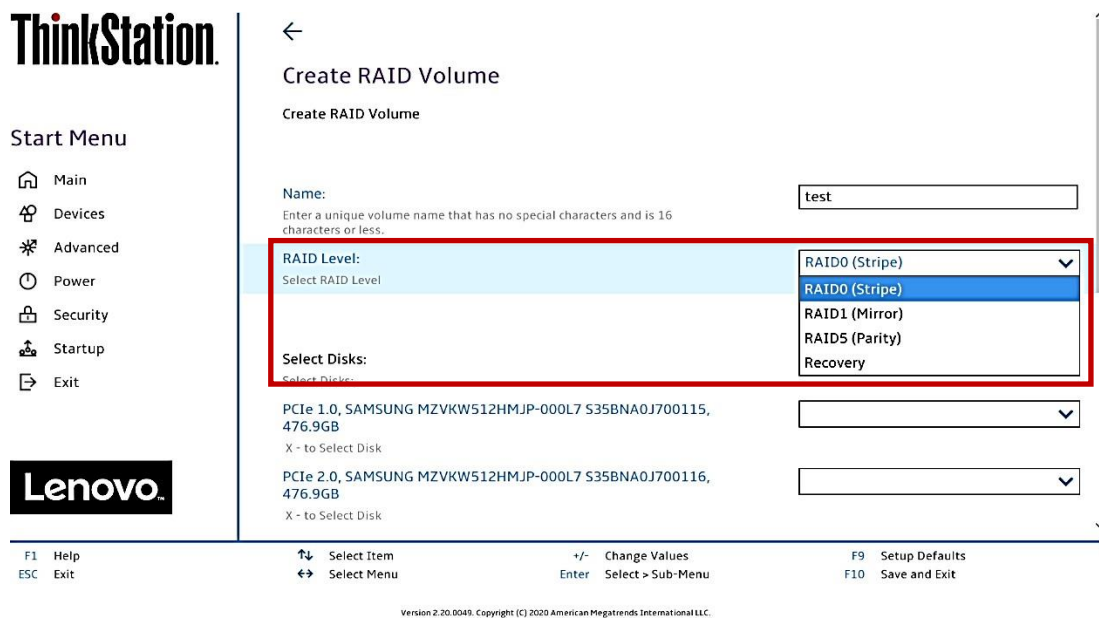
X - to Select Disk

F1 Help ↑ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ↔ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

- At the “Create RAID Volume” menu, select “RAID Level” and choose one of the options listed.

Note: Only the available RAID options will be listed here.



ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

←
Create RAID Volume
Create RAID Volume

Name:
Enter a unique volume name that has no special characters and is 16 characters or less.

RAID Level:
Select RAID Level

Select Disks:
Select Disks:

PCIe 1.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNA0J700115, 476.9GB

X - to Select Disk

PCIe 2.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNA0J700116, 476.9GB

X - to Select Disk

F1 Help ↑ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ↔ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

11. At the “Create RAID Volume” menu, select the dropdown menu box next to each drive and select the “X”. The dropdown to the right of the drive option should go from [] to [X].

ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

Create RAID Volume

Create RAID Volume

Name:
Enter a unique volume name that has no special characters and is 16 characters or less.

RAID Level:
Select RAID Level

Select Disks:

Select Disks:

PCIe 1.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700115, 476.9GB X - to Select Disk	<input type="text"/>
PCIe 2.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700116, 476.9GB X - to Select Disk	<input type="text" value="X"/>

F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ←→ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.

ThinkStation

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

Create RAID Volume

Create RAID Volume

Name:
Enter a unique volume name that has no special characters and is 16 characters or less.

RAID Level:
Select RAID Level

Select Disks:

Select Disks:

PCIe 1.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700115, 476.9GB X - to Select Disk	<input type="text" value="X"/>
PCIe 2.0, SAMSUNG MZVKW512HJJP-000L7 S35BNA0J700116, 476.9GB X - to Select Disk	<input type="text" value="X"/>
PCIe 3.0, SAMSUNG MZVKW512HJJP-000L7 S35BNY0H700079, 476.9GB X - to Select Disk	<input type="text" value="X"/>

F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ←→ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049, Copyright (C) 2020 American Megatrends International LLC.



12. Select "Create Volume" at the bottom of the menu.

The screenshot shows the ThinkStation BIOS RAID configuration interface. On the left is a 'Start Menu' with options: Main, Devices, Advanced, Power, Security, Startup, and Exit. The main area displays three storage configurations, each with a dropdown menu set to 'X':

- PCIe 1.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNA0J700115, 476.9GB
- PCIe 2.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNA0J700116, 476.9GB
- PCIe 3.0, SAMSUNG MZVKW512HJMJP-000L7 S35BNY0H700079, 476.9GB

Below these are settings for 'Strip Size' (32KB) and 'Capacity (MB)' (976768). At the bottom, the 'Create Volume' option is highlighted with a red box, with the subtext 'Create a volume with the settings specified above'. A keyboard legend at the bottom shows navigation keys: F1 Help, ESC Exit, arrow keys for Select Item/Menu, +/- for Change Values, and F9/F10 for Setup Defaults/Save and Exit. A copyright notice for American Megatrends International LLC is at the very bottom.

13. Verify the RAID volume was created at the very next screen.

The screenshot shows the ThinkStation BIOS RAID configuration interface, now displaying the RAID Volumes list. The 'Start Menu' and navigation options are the same as in the previous screenshot. The main area shows 'Intel(R) Rapid Storage Technology' and 'Intel(R) RST 17.8.4.4671 RAID Driver'. Under 'RAID Volumes:', there is a list of recognized RAID volumes. One volume is listed and highlighted with a red box: 'test, RAID5 (Parity), 953.9GB, Normal'. Below it, the text says 'Select to see more information about the RAID Volume'. The keyboard legend and copyright notice are also present at the bottom.

14. To view information about the RAID array, select the RAID array on the previous step.

ThinkStation.

Start Menu

- Main
- Devices
- Advanced
- Power
- Security
- Startup
- Exit

Lenovo

←

RAID VOLUME INFO

RAID VOLUME INFO

Volume Actions
List of actions available for RAID Volume

> Delete

Name: test
Volume name

RAID Level: RAID5 (Parity)
RAID Level (type)

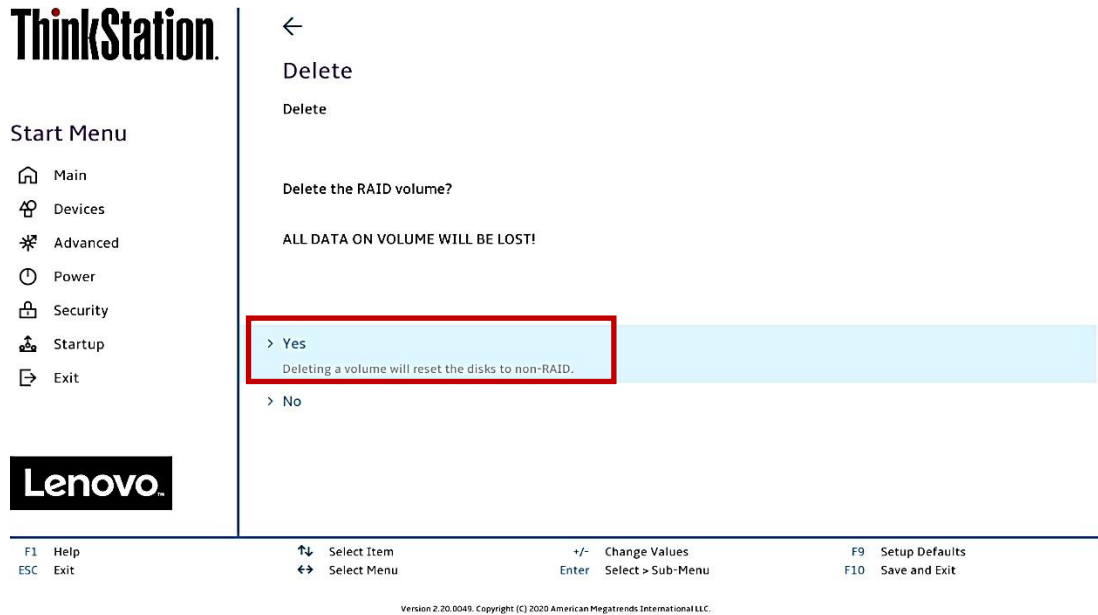
Strip Size: 32KB
Indicates the strip size of the RAID volume

F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
ESC Exit ←→ Select Menu Enter Select > Sub-Menu F10 Save and Exit

Version 2.20.0049. Copyright (C) 2020 American Megatrends International LLC.



15. To delete the RAID array, select “Delete” from the “RAID VOLUME INFO” from the previous step and confirm by selecting “Yes” at the very next menu option.



Note: The user may *not* see the RAID array show up in the BIOS boot sequence until after a bootable operating system has been installed on the RAID array.

Section 5 – Revision History

Version	Date	Author	Changes/Updates
1.0	6/17/2020	Jason Moebis	Initial launch release