

RAID Configuration

RenderCube Rack GPU Gen2

RAID Support

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RAID Support

4.1 RAID configurations

The motherboard supports Intel[®] Rapid Storage Technology enterprise Option ROM Utility with RAID 0, RAID 1, RAID 10, and RAID 5 support.



If you want to install a Windows[®] operating system to a hard disk drive included in a RAID set, you have to create a RAID driver disk and load the RAID driver during OS installation. Refer to section **4.2 Creating a RAID driver disk** for details.

4.1.1 RAID definitions

RAID 0 (Data striping) optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. Two hard disks perform the same work as a single drive but at a sustained data transfer rate, double that of a single disk alone, thus improving data access and storage. Use of two new identical hard disk drives is required for this setup.

RAID 1 (Data mirroring) copies and maintains an identical image of data from one drive to a second drive. If one drive fails, the disk array management software directs all applications to the surviving drive as it contains a complete copy of the data in the other drive. This RAID configuration provides data protection and increases fault tolerance to the entire system. Use two new drives or use an existing drive and a new drive for this setup. The new drive must be of the same size or larger than the existing drive.

RAID 5 stripes both data and parity information across three or more hard disk drives. Among the advantages of RAID 5 configuration include better HDD performance, fault tolerance, and higher storage capacity. The RAID 5 configuration is best suited for transaction processing, relational database applications, enterprise resource planning, and other business systems. Use a minimum of three identical hard disk drives for this setup.

RAID 10 is data striping and data mirroring combined without parity (redundancy data) having to be calculated and written. With the RAID 10 configuration you get all the benefits of both RAID 0 and RAID 1 configurations. Use four new hard disk drives or use an existing drive and three new drives for this setup.

4.1.2 Installing Serial ATA hard disks

The motherboard supports Serial ATA hard disk drives. For optimal performance, install identical drives of the same model and capacity when creating a disk array.

To install the SATA hard disks for a RAID configuration:

- 1. Install the SATA hard disks into the drive bays.
- 2. Connect the SATA signal cables.
- 3. Connect a SATA power cable to the power connector on each drive.

4.1.3 Setting the RAID item in BIOS

You must set the RAID item in the BIOS Setup before you can create a RAID set from SATA hard disk drives attached to the SATA connectors supported by Intel® C621 chipset.

To do this:

- 1. Enter the BIOS Setup during POST.
- 2. Go to the **Platform Configuration** menu > **PCH Configuration** menu > **PCH SATA Configuration**, then press <Enter>.
- 3. Set Configure SATA as to [RAID Mode].
- 4. Press <F10> to save your changes and exit the BIOS Setup.



Refer to Chapter 3 for details on entering and navigating through the BIOS Setup.

4.1.4 RAID configuration utilities

Depending on the RAID connectors that you use, you can create a RAID set using the utilities embedded in each RAID controller. For example, use the Intel® Rapid Storage Technology if you installed Serial ATA hard disk drives on the Serial ATA connectors supported by the Intel® C621 chipset.

Refer to the succeeding section for details on how to use the RAID configuration utility.

4.2 Intel[®] Rapid Storage Technology enterprise SATA/SSATA Option ROM Utility

The Intel® Rapid Storage Technology enterprise SATA/SSATA Option ROM utility allows you to create RAID 0, RAID 1, RAID 10 (RAID 1+0), and RAID 5 set from Serial ATA hard disk drives that are connected to the Serial ATA connectors supported by the Southbridge.



Before you proceed, ensure that you have installed the Serial ATA hard disk drives, and have set the correct SATA mode in the BIOS setup. You can refer to the **Installing hard disk drives**, and **Setting the RAID mode** sections in this manual for more information.

To launch the Intel® Rapid Storage Technology enterprise SATA/SSATA Option ROM utility:

- 1. Turn on the system.
- 2. During POST, press <Ctrl>+<l> to display the utility main menu.

Intel(R) Rapid Storage Technology enterprise - SATA Option ROM - 3.6.0.1023 Copyright(C) 2003-12 Intel Corporation. All Rights Reserved.				
[MAIN MENU] 1. Create RAID Volume 3. Reset Disks to Non-RAID 2. Delete RAID Volume 4. Exit				
RAID Volumes: None defined. Physical Disks: ID Drive Model 0 ST33006568S 1 ST33006568S 2 ST33006565S 3 ST33006565S	Erial # HWAS0000991753TR 37VN0009846RAJI 39760009846UEDY GWC50000991756G6	Size 279.3GB 279.3GB 279.3GB 279.3GB 279.3GB	Type/Status(Vol ID) Non-RAID Disk Non-RAID Disk Non-RAID Disk Non-RAID Disk	
[↑ ↓]-Select	[ESC]-Exit	[]	ENTER]-Select Menu	

The navigation keys at the bottom of the screen allow you to move through the menus and select the menu options.



The RAID BIOS setup screens shown in this section are for reference only and may not exactly match the items on your screen.

4.2.1 Creating a RAID set

To create a RAID set:

- 1. From the utility main menu, select 1. Create RAID Volume and press <Enter>.
- 2. Key in a name for the RAID set and press <Enter>.



- Press the up/down arrow keys to select a RAID Level that you wish to create then press <Enter>.
- From the **Disks** item field, press <Enter> to select the hard disk drives that you want to include in the RAID set.

[SELECT DISKS]					
Port	Drive Model	Serial #	Size	Status	
0	ST3300656SS	HWAS0000991753TR	279.3GB	Non-RAID Disk	
1	ST3300656SS	37VN00009846RAJ1	279.3GB	Non-RAID Disk	
2	ST3300656SS	397600009846UEDY	279.3GB	Non-RAID Disk	
3	ST3300656SS	GWC50000991756G6	279.3GB	Non-RAID Disk	
Select 1 Master and 1 Recovery disk to create volume.					
[↑↓]-Prev/Next [TAB]-(M)aster [SPACE]-(R)ecovery [ENTER]-Done ==					

 Use the up/down arrow keys to move the selection bar then press <Space> to select a disk. A small triangle before the Port number marks the selected drive. Press <Enter> when you are done. Use the up/down arrow keys to select the stripe size for the RAID array (for RAID 0, 10 and 5 only) then press <Enter>. The available stripe size values range from 4 KB to 128 KB. The following are typical values: RAID 0: 128 KB

10,000	12010
RAID 10:	64KB
RAID 5:	64KB



We recommend a lower stripe size for server systems, and a higher stripe size for multimedia computer systems used mainly for audio and video editing.

- 7. In the **Capacity** field item, key in the RAID volume capacity that you want to use and press <Enter>. The default value field indicates the maximum allowed capacity.
- 8. Press <Enter> to start creating the RAID volume.
- 9. From the following warning message, press <Y> to create the RAID volume and return to the main menu, or press <N> to go back to the **CREATE VOLUME** menu.



4.2.2 Deleting a RAID set



Take caution when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

To delete a RAID set:

- 1. From the utility main menu, select 2. Delete RAID Volume and press <Enter>.
- 2. From the Delete Volume Menu, press the up/down arrow keys to select the RAID set you want to delete then press .

Intel(R) Co	Rapid Storage opyright(C) 20	Technology ente 03-12 Intel Corr	erprise - SAT	A Option ROM l Rights Rese	- 3.6.0.1023 prved.
		DELETE VO	LUME MENU] =		
Volume	D RAIDO(Str.	ipe) 2	298.0GB	Normal	Yes
		[HE	LP]		
	Deleting a	volume will re	set the disks	to non-RAID	
	WARN (This	ING: ALL DISK DA does not apply	TA WILL BE D to Recovery	ELETED. volumes)	
[↑↓]-s	elect	[ESC]-Previou	s Menu	[DEL]-Del	ete Volume

 Press <Y> to confirm deletion of the selected RAID set and return to the utility main menu, or press <N> to return to the DELETE VOLUME menu.



4.2.3 Resetting disks to Non-RAID



Take caution before you reset a RAID volume hard disk drive to non-RAID. Resetting a RAID volume hard disk drive deletes all internal RAID structure on the drive.

To reset a RAID set:

- 1. From the utility main menu, select 3. Reset Disks to Non-RAID and press <Enter>.
- Press the up/down arrow keys to select the drive(s) or disks of the RAID set you want to reset, then press <Space>. A small triangle before the Port number marks the selected drive. Press <Enter> when you are done.



 Press <Y> in the confirmation window to reset the drive(s) or press <N> to return to the utility main menu.

4.2.4 Exiting the Intel[®] Rapid Storage Technology enterprise SATA/SSATA Option ROM utility

To exit the utility:

- 1. From the utility main menu, select 4. Exit then press <Enter>.
- 2. Press <Y> to exit or press <N> to return to the utility main menu.



4.2.5 Rebuilding the RAID



This option is only for the RAID 1 set.

Rebuilding the RAID with other non-RAID disk

If any of the SATA hard disk drives included in the RAID 1 array failed, the system displays the status of the RAID volume as "**Degraded**" during POST. You can rebuild the RAID array with other installed non-RAID disks.

To rebuild the RAID with other non-RAID disk:

- 1. During POST, press <Ctrl>+<l> at the prompt to enter the Intel Rapid Storage Technology option ROM utility.
- 2. If there is a non-RAID SATA Hard Disk available, the utility will prompt you to rebuild the RAID. Press the up/down arrow keys to select the destination disk then press <Enter> to start the rebuilding process, or press <ESC> to exit.

	[DEGRADED VOLUME	DETECTED]				
"Degraded" volume and	"Degraded" volume and disk available for rebuilding detected. Selectign					
a disk initiates a re	a disk initiates a rebuild. Rebuild completes in the operating system.					
Select the port of	destination disk	for rebuilding (ESC to exit):				
Port Drive Model	Serial #	Size				
X XXXXXXXXXX	XXXXXXXX	XXX.GB				
[[^]-Pr	evious/Next [ENTER]-Select [ESC]-Exit				



Select a destination disk with the same size as the original hard disk.

3. The utility immediately starts rebuilding after the disk is selected. When done, the status of the degraded RAID volume is changed to "**Rebuild**".

Intel(R) Rapid Storage T Copyright(C) 2003	Technology enterprise - 3-12 Intel Corporation	- SATA Option ROM - 3.6.0.1023 . All Rights Reserved.
1. Create RAID 2. Delete RAID	[MAIN MENU] = Volume 3. Re Volume 4. Ex	aset Disks to Non-RAID kit
	= [DISK/VOLUME INFORMA	TION]
RAID Volumes: ID Name Level1 1 Volume0 RAID1()	Strip Mirror) N/A 1	*=Data is Encrypted Size Status Bootable 49.0GB <mark>Rebuild</mark> Yes
Physical Devices: Port Drive Model S 1 ST3160812AS 9 2 ST3160812AS 3	erial # S LSOF4HL 149. LSOJYL8 149.	ize Type/Status(Vol ID) OGB Member Disk(0) OGB Member Disk(0)
Volumes with "Rebuild"	status will be rebuilt	within the operating system.
[^↓]-Select	[ESC]-Exit	[ENTER]-Select Menu

- 4. Press < Esc> to exit Intel Rapid Storage Technology and reboot the system.
- Select Start > Programs > Intel Rapid Storage > Intel Rapid Storage Console or click the Intel Rapid Storage Technology tray icon to load the Intel Rapid Storage Manager utility.
- 6. From the **View** menu, select **Advanced Mode** to display the details of the Intel Rapid Storage Console.
- 7. From the **Volumes view** option, select **RAID volume** to view the rebuilding status. When finished, the status is changed to "**Normal**".

Rebuilding the RAID with a new hard disk

If any of the SATA hard disk drives included in the RAID array failed, the system displays the status of the RAID volume as "**Degraded**" during POST. You may replace the disk drive and rebuild the RAID array.

To rebuild the RAID with a new hard disk:

1. Remove the failed SATA hard disk and install a new SATA hard disk of the same specification into the same SATA Port.



Select a destination disk with the same size as the original hard disk.

 Reboot the system then follow the steps in section Rebuilding the RAID with other non-RAID disk.

4.2.6 Setting the Boot array in the BIOS Setup Utility

You can set the boot priority sequence in the BIOS for your RAID arrays when creating multi-RAID using the Intel® Rapid Storage Technology enterprise SATA Option ROM utililty. To set the boot array in the BIOS:



Set at least one of the arrays bootable to boot from the hard disk.

- 1. Reboot the system and press to enter the BIOS setup utility during POST.
- 2. Go to the **Boot** menu and select the boot option priority.
- Use up/down arrow keys to select the boot priority and press <Enter>. See the Boot menu section of Chapter 5 for more details.
- 4. From the Exit menu, select Save Changes & Exit, then press <Enter>.
- 5. When the confirmation window appears, select Yes, then press <Enter>.

4.3 Intel[®] Rapid Storage Technology enterprise (Windows)

The Intel[®] Rapid Storage Technology enterprise allows you to create RAID 0, RAID 1, RAID 10 (RAID 1+0), and RAID 5 set(s) from Serial ATA hard disk drives that are connected to the Serial ATA connectors supported by the Southbridge.



You need to manually install the Intel® Rapid Storage Technology enterprise utility on a Windows® operating system.

To enter the Intel $^{\ensuremath{\mathbb{R}}}$ Rapid Storage Technology enterprise utility under Windows operating system:

- 1. Turn on the system and go to the windows desktop.
- 2. Click the Intel[®] Rapid Storage Technology enterprise icon to display the main menu.

Your storage system is configured for data protection, increased performance and optimal data storage capacity. You can create additional volumes to further optimize your storage system.

toria manar ID		
Current Status The system is furthering remain		
Control Control		415M Encire Apparent () Halde Comments () Hal Instanting Park () Hall () Hall () Hall
ternation a monape system is configured for data postection, Venez di wy tenco to vellower to display for properties d_mon_2000 (¹⁰)	ne fingemens tet tilgen i var mote obrede tim te ynges tilgen.	spor group, yean bi control Jaktewa wakwe, "Is begi he peory, dia Clave (status).



You can click Rescan to re-scan any attached hard disks.

4.3.1 Creating a RAID set

To create a RAID set:

- 1. From the utility main menu, select Create Volume and select volume type.
- 2. Click Next.



- 3. Enter a name for the RAID set, then select the array disks.
- 4. Select Volume Size tab, you can drag the bar to decide the volume size.
- 5. Click Next.

1. Select	Configure Volume	Proposed Configuration
2. Configure	Name: Volume_0000	New Array
3. Coolem	Select the array disks (minimum selection required):	Volume,000

(e)

.

- If you do not want to keep the data on one of the selected disks, select NO when prompted.
- If you want to Enable volume write-back cache or Initialize volume, click Advanced.

6. Confirm the volume creation, than click **Create Volume** to continue.



7. Wait until the process is completed, then click **OK** when prompted.



You still need to partition your new volume using Windows Disk Management before adding any data.

The RAID set is displayed in the **Volumes** list and you can change the settings in **Volume Properties**.

a beladi Kapal Mirage Terbeshap milanyina	a la la
and the second state	(intel)
Current Status now mean in Londong normally	
	Plane stagetter 1 Hann values, Marca Laure Hann values, Marca Laure Hann values, Marca Laure Hann values and Anna Laure Hann values and Anna Laure Hanna values the Staget Hanna values the S

4.3.2 Changing a Volume Type

To change the volume type in Volume Properties:

- 1. Click the SATA array items you want to change in **Volumes** field.
- 2. From the Volume Properties field, select Type: RAID 1 Change type.

logy enterprise		(intel
system is functioning norma	ily.	
vishme	Volumes 5A5,Arrey,0000	Volume Properties (*) Name Volume,0000 Econome State. Add& Mick Instant. State State. 4 466 Mick Instant. State System volume: No Durkt solutione Wine-back colve. Disabled Economy Wine-back colve. Disabled Economy Wine-

- 3. You can change the Name, Select the new volume type, and Select additional disks to include in the new volume if needed.
- Select the Data stripe size for the RAID array (for RAID 0, 10 and 5 only), and click OK. The available stripe size values range from 4 KB to 128 KB. The following are typical values:

RAID 0:	128KE
RAID 10:	64KB
RAID 5:	64KB

hange Volume Type	2
Name: Volume_0000	
Select the new volume type: Optimized disk performance (RAID 0) O Efficient data hosting and protection (RAID 5)	
O The new volume will automatically include the disks that are part of the existing volum	ne.
Select additional disks to include in the new volume: 💯	
SAS disk on Controller 1, Phy 4 SAS disk on Controller 1, Phy 6	
Data stripe size: 64 KB 💌 🧭	
▲ WARNING: Completing this action will immediately start the volume migration proces on the disks to be added to the volume will be permanently lost and should be backe before continuing. Volume data will be preserved. Performing a driver upgrade or do while a volume migration is in progress may make the volume inaccessible due to driv incompatibility.	is. Any data d up vngrade ver
land in the second s	

We recommend a lower stripe size for server systems, and a higher stripe size for multimedia computer systems used mainly for audio and video editing.

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4.3.3 Deleting a volume



Be cautious when deleting a volume. You will lose all data on the hard disk drives. Before you proceed, ensure that you back up all your important data from your hard drives.

To delete a volume:

1. From the utility main menu, select the volume (ex. Volume_0000) in **Volumes** field you want to delete.

kogy enterprise		intel)
r system is functioning normal	ny.	
e Volume	Volumes SAS_Array.0000	Volume Properties Name: Volume, 5000 Bename Status Normal Type RAD 1 Change trate Sprem Volume: No Chatter Volume System Volume: No Chatter Volume Installated: No Instatus Venication details Volume Pairly errors 0 Blocks with media errors 0 Blocks with

2. Select Delete volume in Volume Properties field. The following screen appears.



3. Click **Yes** to delete the volume and return to the utility main menu, or click **No** to return to the main menu.

4.3.4 Preferences

System Preferences

Allow you to set to show the notification area icon and show system information, warning, or errors here.

Home Pulletender	ning ning ning ning ning ning ning ning	(intel)
Epitem L-INIA	System Profesences U Sour the contraction area from Once the following profesence: U Stoppy system areange U Stoppy system areange U Stoppy system areange	
		Maye Jella on Britsonge

E-Mail Preferences

Allow you to set to sent e-mail of the following events:

- Storage system information
- Storage system warnings
- Storage system errors

2 Intell Rapid Strenge Techn	alogy etterprise	
Horne Mulesenaes	10	(intel)
System E-mail	E-mail Preference: Storage system information Storage system information Storage system units: Storage system units: Pressure from a document Pressure from a document	
	Apply These Brown	More belo in this usige

4.4 Intel[®] Virtual Raid on CPU in BIOS

This feature requires a KEY module to enable CPU RAID functions with Intel® CPU RSTe.



- The KEY module is purchased separately.
 - Due to chipset behavior, CPU RAID functions with Intel[®] CPU RSTe only supports Intel[®] Core[™] X-series Processors (6-core or above) and Intel[®] SSD modules.
- Refer to section 1.1.9 Internal connectors for the location of the VROC_HW_KEY connector.



Due to hardware design, your motherboard does not support CPU RAID configurations as OS drives.

To enter the Intel® Virtual Raid on CPU in BIOS:

- 1. Enter the BIOS Setup during POST.
- Go to the Advanced menu > Intel(R) Virtual Raid on CPU > All Intel VMD Controllers then press <Enter> to display the Intel[®] Virtual Raid on CPU menu.



Refer to Chapter 3 for details on entering and navigating through the BIOS Setup.



Due to chipset limitation, when SATA ports are set to RAID mode, all SATA ports run at RAID mode together.

Aptio Setup Utility – Copyright (C) 2017 American Advanced	Megatrends, Inc.
All Intel VMD Controllers ▶ Create RAID Volume	This page allows you to create a RAID volume
Non-RAID Physical Disks: Port 0, VMD0, INTEL SSDFE2HX400G4 SN:CVPD6212006H400NGN, Port 1, VMD0, INTEL SSDFE2HX400G4 SN:CVPD6212004H400NGN, Port 2, VMD0, INTEL SSDFE2HX400G4 SN:CVPD621200D5400NGN, Port 3, VMD0, INTEL SSDFE2HX400G4 SN:CVPD621200D5400NGN,	++: Select Screen 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save Changes & Reset F12: Print Screen ESC: Exit

4.4.1 Creating a RAID set

To create a RAID set:

1. From the Intel[®] Virtual Raid on CPU menu, select **Create RAID Volume** and press <Enter>. The following screen appears:



- 2. When the Name item is selected, enter a name for the RAID set and press <Enter>.
- When the RAID Level item is selected, press <Enter> to select the RAID level to create, and then press <Enter>.
- 4. When the Enable RAID spanned over VMD Controllers item is selected, press <Enter> and select X to enable this function.
- Under Select Disks, press <Enter> and select X for the disks you want to include in the RAID set.
- 6. When the Strip Size item is selected, press <Enter> to select strip size for the RAID array (for RAID 0, 10 and 5 only), and then press <Enter>. The available strip size values range from 4 KB to 128 KB. The following are typical values:
 - RAID 0: 128 KB
 - RAID 10: 64 KB
 - RAID 5: 64 KB



We recommend a lower strip size for server systems, and a higher strip size for multimedia computer systems used mainly for audio and video editing.

- 7. When the **Capacity (MB)** item is selected, enter the RAID volume capacity that you want and press <Enter>. The default value indicates the maximum allowed capacity.
- 8. When the **Create Volume** item is selected, press <Enter> to create the RAID volume and return to the Intel[®] Rapid Storage Technology menu.

	Aptio Setup Utility – Advanced	Copyright (C) 2017 American	Megatrends, Inc.
Γ	Create RAID Volume		Create a volume with the settings specified above
	Name: RAID Level: Enable RAID spanned over VMD Contr	Volume0 [RAID5(Parity)] [X]	
	Select Disks: Port 0, VM00, INTEL SSDFE2MX40064 Port 1, VMD0, INTEL SSDFE2MX40064 Port 2, VM00, INTEL SSDFE2MX40064 Port 3, VM00, INTEL SSDFE2MX40064	[X] [X] [X] [X]	
	Strip Size: Capacity (MB): RWH Policy	[128KB] 1087416 [Disable]	++: Select Screen 11: Select Item
•	Create Volume		Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save Changes & Reset F12: Print Screen ESC: Exit

4.4.2 Deleting a RAID set



Be cautious when deleting a RAID set. You will lose all data on the hard disk drives when you delete a RAID set.

To delete a RAID set:

1. From the Intel[®] Virtual Raid on CPU menu, select the RAID volume you want to delete and press <Enter>. The following screen appears:

Aptio Setup Utility – Copyright (C) 2017 Americ Advanced	an Megatrends, Inc.
RAID VOLUME INFO	
Volume Actions ▶ Delete	
Name: Volume0 RATD Level: RATDS(Parity) Strip Size: 64KB Size: 1.03TB Status: Normal Bootable: Yes Block size: 512 RNH Policy: [Disable]	tt. Select Scoren
 Port 0, VMD0, INTEL SSDPE2MX400G4 SN:CVPD6212006H400NGN, Port 1, VMD0, INTEL SSDPE2MX400G4 SN:CVPD6212008H400NGN, Port 2, VMD0, INTEL SSDPE2MX400G4 SN:CVPD621200D5400NGN, Port 3, VMD0, INTEL SSDPE2MX400G4 SN:CVPD621200D5400NGN, 	11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save Changes & Reset F12: Print Screen ESC: Exit

2. When the **Delete** item is selected, press <Enter>, then select **Yes** to delete the RAID volume and return to the Intel[®] Virtual Raid on CPU menu, or select **No** to cancel.

Aptio Setup Utility – Copyright (C) 2017 American Advanced	Megatrends, Inc.
Delete	Deleting a volume will reset
Delete the RAID volume? ALL DATA ON VOLUME WILL BE LOST!	the disks to non-khiD.
≻ Yes ▶ No	

4.4.3 Installing the RAID controller driver during Windows[®] 10 OS installation

After creating the RAID sets, you are now ready to install an operating system to the independent drives or bootable array. This part provides the instructions on how to install the RAID controller drivers during OS installation.

To install the RAID controller driver when installing Windows® 10 OS:

- Boot the computer using the Windows[®] 10 OS installation disc. Follow the screen instructions to start installing Windows[®] 10.
- 2. When prompted to choose a type of installation, click **Custom: Install Windows only** (advanced).

Custom: Install Windows only (Information) The files, and explorations were recorded to Windows with this option. If you want to make integrable point thinks and divers, such the computer using the matalitation disc. We recommend backing up your files before you continue.

3. Click Load Driver.

-	Name	Total size	Free space	Туре
S.	Drive © Partition 1: System Reserved	350.0 MB	88.0 MB	System
Ŷ	Drive 0 Partition 2	148.7 GB	139.6 GB	Primary
+ Refs	resh X Delete	@ Format	New	

4. A message appears, reminding you to insert the installation media containing the driver of the RAID controller driver. If you have only one optical drive installed in your system, eject the Windows OS installation disc and replace with the motherboard Support DVD into the optical drive. Click **Browse** to continue.



- 5. Locate the driver in the corresponding folder of the support DVD then click **OK** to continue.
- 6. Select the RAID controller driver you need from the list and click Next.
- When the system finishes loading the RAID driver, replace the motherboard Support DVD with the Windows Server installation disc. Select the drive to install Windows and click Next.

1.1.1.			Total suc	Free space	Type
SP.	Drive 0 Partition 1: 5	lystem Reserved	350.0 MB	88.0 MB	System
1	Drive © Partition 2		148.7 GB	139.6 GB	Primary
fg Befres	ih 7	Delete	@ Eormat	New	

8. Setup then proceeds with the OS installation. Follow screen instructions to continue.