

Server RSV-S8 User Manual

Download from Www.Somanuals.com. All Manuals Search And Download.

Content

1	WELCOME	.3
	1.1 PRECAUTION	3
	1.2 FEATURES	3
	1.2.1 DATA SECURITY 1.2.2 DATA PERFORMANCE 1.2.3 DATA VERSATILITY	3 3 3
	1.3 EASE OF USE	4
	1.4 SPECIFICATIONS	4
	1.5 SUPPORTED OPERATING SYSTEMS	4
	1.6 PRODUCT CONTENTS	4
2	AN INTRODUCTION TO RAID	.5
	2.1 RAID VOLUMES	5
	2.2 SEGMENTING DISKS	5
	2.3 RAID LEVELS	6
	2.3.1 DISK STRIPING (RAID 0) 2.3.2 DISK MIRRORING (RAID 1) 2.3.3 DISK MIRRORING AND STRIPING (RAID 10) 2.3.4 PARITY RAID (RAID 5) 2.3.5 CONCATENATION	6 6 6 6
	2.4 RAID VOLUME STATUS	7
3	INSTALLATION	.8
	3.1 COMPONENTS	8
	3.2 INSTALLING HARDWARE	8
	3.3 INSTALLING ON WINDOWS 2000	8
	3.3.1 INSTALLING SATA RAID HOST BUS ADAPTER 3.3.2 INSTALLING SATARAID5 UTILITY 3.3.3 DISK DRIVE MODE SETUP 3.3.4 ALLOCATING PARTITION	8 13 16 16
	3.4 INSTALLING ON WINDOWS XP (32/64-BIT)	22
	 3.4.1 INSTALLING SATA RAID HOST BUS ADAPTER 3.4.2 INSTALLING SATARAID5 UTILITY	22 24 28 28 34
	3.5 INSTALLING ON WINDOWS SERVER 2003 (32/64-BIT)	40

3.5.1 INSTALLING SATA RAID HOST BUS ADAPTER 3.5.2 INSTALLING SATARAID5 UTILITY 3.5.3 DISK DRIVE MODE SETUP	
3.5.4 ALLOCATING PARTITIONS	
3.6.1 INSTALLING SATA RAID HOST BUS ADAPTER 3.6.2 INSTALLING SATARAID5 UTILITY 3.6.3 DISK DRIVE MODE SETUP 3.6.4 ALLOCATING PARTITIONS 4 SATARAID5 ARRAY MANAGER	52 54 58 58 63
4.1 OVERVIEW	
4.2 CREATING RAID GROUPS	
 4.2.1 CONTIGUOUS RAID GROUPS 4.2.2 CONCATENATED RAID GROUPS 4.2.3 STRIPED RAID GROUPS 4.2.4 MIRRORED RAID GROUPS 4.2.5 MIRRORED STRIPED RAID GROUPS 4.2.6 PARITY RAID GROUPS	64 64 65 65 65 66 66 66 67
4.3 ADDITIONAL MENU COMMANDS	
4.3.1 CONFIGURATION 4.3.2 EXIT	
4.3.3 CREATE SPARE	
 4.3.4 DELETE SPARE	73 73 74 74 74 74 75 76 76 76 76 76 77 77 77 77
4.3.18 HELP TOPICS 4.3.19 ABOUT	

1 WELCOME

RSV-S8 enhances your data storage by combining advanced RAID1 features typically seen on high-end data systems with low cost/high capacity Serial ATA drives. By using industry standard SATA drives and Silicon Image Host Bus Adapters, you can achieve extraordinarily low costs while remaining assured that your data is protected against hardware failure.

1.1 PRECAUTION

Please read the safe precautions carefully before you using RSV-S8 storage appliance. Ensure that you use the product correctly according to the procedure described in this guide.

The following safety precautions are intended to remind you to operate the product safely and correctly. Please read and ensure that you understand them before you proceed to the other sections of this guide.

Do not attempt to disassemble or alter any part of the product that is not describe in this guide.

Do not allow the product to come into contact with water or other liquids.

In the event that water or other liquids enter the interior, immediately unplug the product from the computer. Continued use of the product may result in fire or electrical shock. Please consult your product distributor or the closest support center.

Do not handle the product near a heat source or expose them to direct flame or heat.

Never place the product in close to equipment generating storage electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt data.

Can't operate properly under Windows 3.x/ 95 / 98SE/ ME/ NT.

Hard disk drive is not including.

1.2 FEATURES

1.2.1 DATA SECURITY

The RSV-S8 software driver includes support for monitoring to predict suspect drives.

RSV-S8 provides our highest commitment to data security through the use of RAID architecture to back up and protect data. RAID levels 1, 10, and 5 provide data security. RSV-S8 supports sophisticated sparing support so that hardware failure risk can be minimized by automatically regenerating the failed disk's data on a backup disk. The RSV-S8 software driver includes support for Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.2) to predict disk failures. Drives can be moved between controllers without losing data.

1.2.2 DATA PERFORMANCE

The RSV-S8 can also increase storage throughput by combining the throughput of multiple drives into a single volume. RAID levels 1, 10, and 5 support this ability. Furthermore, each volume can be tailored to provide the best performance for the data contained on that disk.

1.2.3 DATA VERSATILITY

The RSV-S8 software driver also supports Contiguous and Concatenated drives for applications which do not require increased security or performance.

Redundant Array of Independent Devices, a method of combining drives to provide better protection and/or performance.

Self Monitoring, Analysis and Reporting Testing.

For 3132, this requires the use of a Port Multiplier device to access more than one disk per SATA channel.

1.3 EASE OF USE

The RSV-S8 utility offers an easy to use utility for creating and managing your storage. It also supports the latest SATA enhancements including SATA-II Port Multiplier support, and up to 3Gbit/sec transfer rates on controllers that support that speed. Creating and deleting volumes is also possible without requiring a restart of the operating system and rebuilds never require the data to be taken off-line.

Drives can also be moved between controllers without losing the data.

1.4 SPECIFICATIONS

- Two eSATA host ports to 8 SATA 3.5-inch hard disks, with hard disk trays & door cover.
- Power and host status LED, and devices status and activity LED.
- Metal chassis (SECC) and plastic panel frame (ABS) design.
- 150 (W) x 340 (H) x 340 (D) mm, NW: 5.5 Kgs, GW: 7.6Kgs.
- Design based on the Silicon Image Sil3726 Port-Multiplier with Sil3132R5 PCI-Express 1X HBA.
- Support Striped (RAID 0), Mirrored (RAID 1), Mirrored Striped (RAID 10), Parity RAID (RAID 5) modes, and hot spare on Mirrored (RAID 1), Mirrored Striped (RAID 10) and Parity RAID (RAID 5) modes.
- Support Contiguous (Single Drive) & Concatenation (Combined Drives) modes.
- 300 watts, 90 to 264Vac / 47~63Hz with VCCI/ FCC/ UL-1950/ C-UL/TUV/ CB/ CCC requirement.
- Single packing (color box) and 2 in 1 outer box.

1.5 SUPPORTED OPERATING SYSTEMS

The following operating systems are supported by the RSV-S8 software driver.

- Windows 2000
- Windows XP, 32/64-bit
- Windows Server 2003, 32/64-bit
- Windows Vista, 32/64-bit

1.6 PRODUCT CONTENTS

The following parts are content.

- Sil3726 Port-Multiplier Box
- Sil3132R5 PCI-Express 1X HBA
- eSATA Cable
- AC Cable
- HDD Screw x 32
- Setup and Installation Driver Repository CD

2 AN INTRODUCTION TO RAID

2.1 RAID VOLUMES

RAID technology allows one or more disks to be combined into a logical volume which provides greater performance and/or protection than standard disk drives. These volumes, also known as RAID Groups, appear like regular disk drives to the operating system and can be partitioned, formatted and used just like any other normal disk. The complexity of the RAID is hidden within the driver.

There are several different methods of combining disks, each with its own advantages and disadvantages. Each method is referred to as a RAID "level" such as RAID 1, or RAID 5. The details of each level are summarized below and detailed in the following sections.

RAID LEVEL	CONFIGURED AS	ADVANTAGES	DISADVANTAGES
0	Striped	Excellent performance, low cost	No data protection
1	Mirrored	Excellent data protection	High cost
10	Mirrored Striped	High performance, excellent data protection.	High cost.
5	Parity RAID	Good data protection, good value	Some performance degradation for writes.
Combination	Concatenated	Good performance, low cost, large Volume size	No data protection
Single Drive / Segment	Contiguous	Same as single disk	Same as single disk

2.2 SEGMENTING DISKS

For increased versatility, the SATARAID5 software allows individual disks to be divided into smaller segments which can then be combined into different volumes. As an example, if a user has one set of data that must be protected at all costs, another set of data which should be protected at reasonable cost and another set that doesn't need any protection at all; the user can divide three disks into sections as shown in Figure 1. The yellow regions define the high security volume, the greem section is the middle security volume and the light blue shows the unprotected area.



Figure 1: Dividing Disks into Members

2.3 RAID LEVELS

2.3.1 DISK STRIPING (RAID 0)

Striping is a performance-oriented, non-redundant data mapping technique. While Striping is discussed as a RAID Group type, it is does not provide any fault tolerance. With modern SATA and ATA bus mastering technology, multiple I/O operations can be performed in parallel, enhancing data throughput. Striping arrays use multiple disks to form a larger virtual disk. The figure below illustrates a three-disk stripe set. Stripe one is written to disk one, stripe two to disk two, and so forth. RAID 0 sets can be comprised of two, three, or four drives. If the sizes of the disk segments are different, the smallest disk segment will limit the overall size of the RAID Group.

\leq			\sim
_	Stripe0	Stripe1	Stripe2
	Stripe3	Stripe4	Stripe5
	Stripe6	Stripe7	Stripe8
	Stripe9	Stripe10	Stripe11

2.3.2 DISK MIRRORING (RAID 1)

Disk mirroring creates an identical twin for a selected disk by having the data simultaneously written to two disks. This redundancy provides instantaneous protection from a single disk failure. If a read failure occurs on one drive, the system reads the data from the other drive. RAID 1 sets are comprised of two drives, and a third drive can be allocated as a spare in case one of the drives in the set fails. If the sizes of the disk segments are different, the smallest disk segment will limit the overall size of the RAID Group.

\leq	
_	Block 0
	Block 1
0	Block 2
1	Block 3

2.3.3 DISK MIRRORING AND STRIPING (RAID 10)

RAID 10 combines the features of both RAID 0 and RAID 1. Performance is provided through the use of Striping (RAID 0), while adding the fault tolerance of Mirroring (RAID 1). The implementation of RAID 10 requires four drives. The drives are assigned as two sets of striped pairs.





Mirrored Set 'B' (RAID 1)

The data is written to RAID Group A, which is mirrored (RAID 1) and provides data redundancy. Alternating blocks of data are then striped across another RAID 1 mirrored set, shown as Set B in the figure above. This provides improved speed.

Under certain circumstances, a RAID 10 set can sustain multiple simultaneous drive failures.

2.3.4 PARITY RAID (RAID 5)

Parity or RAID 5 adds fault tolerance to Disk Striping by including parity information with the data. Parity RAID dedicates the equivalent of one disk for storing parity stripes. The data and parity information is arranged on the disk array so that parity is written to different disks. There are at least 3 members to a Parity RAID set. The following example illustrates how the parity is rotated from disk to disk. The following example illustrates how the disk.



Parity RAID uses less capacity for protection and is the preferred method to reduce the cost per megabyte for larger installations. Mirroring requires 100% increase in capacity to protect the data whereas the above example using three hard drives only requires a 50% increase. The additional required capacity decreases as the number of disks in the group increases (i.e., 33% for four drives or 25% for five drives).

In exchange for low overhead necessary to implement protection, Parity RAID degrades performance for all write operations. The parity calculations for Parity RAID may result in write performance that is somewhat slower than the write performance to a single disk.

2.3.5 CONCATENATION

The Concatenated mode combines multiple disks or segments of disks into a single large volume. It does not provide any data protection or performance improvement but can be useful for utilizing leftover space on disks. Concatenation allows the segments that make up the volume to be of different sizes.



2.3.6 SINGLE DRIVE / SEGMENT

The single drive is a virtual disk that can either be an entire disk drive or a segment of a single disk drive. Single drive is the "Contiguous" configuration option when creating RAID Groups (or sets) in the SATARAID5 software.

2.4 RAID VOLUME STATUS

A RAID volume can be in any one of the following statuses.

STATUS	MEANING
Good	All disks are currently functioning as normal.
Reduced	For RAID levels that provide data protection, one or more disks have failed but the data is still available via the RAID algorithms. The failed disk should be replaced as soon as possible to avoid loss of data.
Rebuilding	A failed disk drive has been replaced and the data is being regenerated on the replacement disk. When complete, the RAID Group will return to Good status.
Resynchronizing	An error has occurred and RAID algorithms be regenerated on this RAID Group. When complete, the RAID Group will return to Good status.
Failed	One or more disks have failed and RAID algorithms can no longer regenerate the data. The minimum number of failures required to reach this state depends on the RAID level: RAID 0, Concatenated, Contiguous: Single disk failure. RAID 1, 10, and 5: Two disk failure.

3 INSTALLATION

3.1 COMPONENTS

There are three separate steps that must be install or setup for RSV-S8 to function. These components are the HARDWARE, SATA RAID5 HBA DRIVER, and SATARAID5 Utility. The steps on how to setup these packages is described in the following sections.

3.2 INSTALLING HARDWARE

Follow the descriptions below, and step by step to complete the installation.

Turn off your host computer.

Install the Sil3132 PCI-Express 1X SATA RAID5 HBA into a PCI-Express slot (1X ~ 16X), than connect one end of the eSATA cable to the eSATA connector on the Sil3132 PCI-Express 1X SATA RAID5 HBA.

Connect the other end to the eSATA connecter on CFI-B8083ER.

If hard disk drives are not installed in CFI-B8083ER, mount the HDD into the tray and twist the drive screw properly fix, than insert the drive tray most of the way into bay 1 to 8 in order (from the bottom to top); gently insert the drive until the drive is fully inserted, and shut the tray handle to seat the drive securely.

Attach one end of the AC power cord to RSV-S8 and the other end to the proper AC receptacle.

Turn on CFI-B8083ER, than turn on the host computer.

3.3 INSTALLING ON WINDOWS 2000

3.3.1 INSTALLING SATA RAID HOST BUS ADAPTER

Follow the descriptions below, and step by step to complete the setup.

Insert the Setup and Installation Repository CD in the CD-ROM drive. When start the Windows O/S, new hardware will be found, click **Next**>.

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
	<back: next=""> Cancel</back:>

Select Search for a suitable driver for my device (recommended), than click Next>.



Select Specify a location, than click Next>.

Found New Hardware Wizard	
Locate Driver Files Where do you want Windows to search for	driver files?
Search for driver files for the following hardw	vare device:
RAID Controller	
The wizard searches for suitable drivers in it any of the following optional search location	s driver database on your computer and in s that you specify.
To start the search, click Next. If you are se insert the floppy disk or CD before clicking N	arching on a floppy disk or CD-ROM drive, lext.
Optional search locations:	
Floppy disk drives	
CD-ROM drives	
Specify a location	
Microsoft Windows Update	
	< Back Next > Cancel

Click Browse... to select to driver path, than click OK.

Found Ne	ew Hardware Wizard	×
2	Insert the manufacturer's installation disk into the drive selected, and then click DK.	OK Cancel
	Copy manufacturer's files from: E:\Driver\Sil3132R5\Windows\32bits	Browse

Click Next> to install the Silicon Image Sil3132 SoftRaid 5 Controller driver.



Click Yes to pass the Microsoft digital signature and continue the installation.

Digital Signature Not I	Found
3	The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
	The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
	Silicon Image Sil 3132 SoftRaid 5 Controller
	If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
	Do you want to continue the installation?
	Yes No More Info

When the Silicon Image Sil3132 SoftRaid 5 Controller installation has completed, click Finish, and begin to the Silicon Image's Pseudo Processor Device driver installation.

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard Silicon Image Sil 3132 SoftRaid 5 Controller Windows has finished installing the software for this device.
Statistics, State	To close this wizard, click Finish.
	Kack Finish Cancel

Windows will find the Silicon Image's Pseudo Processor Device hardware, click Next>.

ound New Hardware Wiza	rd Welcome to the Found New
	Hardware Wizard
	This wizard helps you install a device driver for a hardware device.
	To continue, click Next.
	< Back, Next > Cancel

Select Search for a suitable driver for my device (recommended), than click Next>.



Select Specify a location, than click Next>.

ocate Driver Files Where do you want Windows to search	n for driver files?
Search for driver files for the following h	ardware device:
SI Pseudo Device SCSI Proc	essor Device
The wizard searches for suitable drivers any of the following optional search loca	s in its driver database on your computer and in ations that you specify.
To start the search, click Next. If you ar insert the floppy disk or CD before click.	re searching on a floppy disk or CD-ROM drive, ing Next.
Optional search locations:	
🗖 Floppy disk drives	
CD-ROM drives	
Specify a location	
Microsoft Windows Update	
	1). <u>52</u> - 3890

Click Browse... to select to driver path, than click OK.



Click Next> to install the Silicon Image's Pseudo Processor Device driver.



When the Silicon Image's Pseudo Processor Device installation has completed, click Finish.

Completing the Found New Hardware Wizard Silicon Image's Pseudo Processor Device Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back, Finish Cancel

3.3.2 INSTALLING SATARAID5 UTILITY

Follow the descriptions below, and step by step to complete the installation.

Open the Setup and Installation Repository CD and select the SATARAID5 Array Manager software from the Utility folder.

Double-click the 3132-W-I32-R.exe file.



Click **<u>N</u>ext>** to begin setup.



Select I Agree, than click Next>.

🙀 3132-₩-I32-R SATARAID5		
License Agreement		(
Please take a moment to read the Agree", then "Next". Otherwise cl	license agreement now. If you acce ck "Cancel".	pt the terms below, click "I
	Silicon Image, Inc.	<u> </u>
SOFTW	ARE LICENSE AGREEN	IENT
PLEASE READ THE CAREFULLY BEFOR USING THE SOFTWA DOCUMENTATION	FOLLOWING TERMS A RE DOWNLOADING, INS ARE OR ANY ACCOMPA (COLLECTIVELY, THE	ND CONDITIONS STALLING OR ANYING "SOFTWARE").
THE TERMS AND O		ATT WARE
C I Do Not Agree		- A
	Cancel <	Back <u>N</u> ext >

Select Place shortcut on Desktop, than click <u>Next></u> to create a shortcut on the desktop.



Click **Next>** to use the default installation folder.

🛃 3132-₩-I32-R SATARAID5	
Select Installation Folder	()
The installer will install 3132-W-I32-R SATARAID5 to the following) folder.
To install in this folder, click "Next". To install to a different folder,	enter it below or click "Browse".
<u>F</u> older:	
C:\Program Files\Silicon Image\3132-W-I32-R SATARAID5\	Browse
	Disk Cost
Cancel	< Back Next > N

Click **<u>N</u>ext>** to begin the installation.

🖥 3132-₩-I32-R SATARAID5			
Confirm Installation			R
The installer is ready to install 3132-W-I	32-R SATARAID5	on your computer.	
Click "Next" to start the installation.			
	Cancel	< Back	Next
			TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

When SATARAID5 installation has completed, click **Close** to exit.

3132-w-132-R SATARAID5			
3132-W-132-R SATARAID5 has beer	n successfully installed.		
Click "Close" to exit.			
	Cancel	< <u>B</u> ack	

Select I <u>agree the terms in the license agreement</u>, than click <u>Next></u> to begin the Java platform installation.



Select Typical, than click Next>.



When Java platform installation has complete	d, click <u>F</u> inish to exit.
--	----------------------------------

🙀 J2SE Runtime Environm	nent 5.0 Update 5 - Complete	×
	Installation Completed	
	The Install Wizard has successfully installed J2SE Runtime Environment 5.0 Update 5. Click Finish to exit the wizard.	
♦ <u>Sun</u> Java		4
	< Back Finish Cancel	

Select Start > Programs > Silicon Image > SATARaid5Manager to start the Array Manager software.

3.3.3 DISK DRIVE MODE SETUP

Please refer to the chapter 4.

3.3.4 ALLOCATING PARTITION

Before creating any partitions, RAID groups must first be created using the SATARaid5Manager utility. Once the sets have been created, allow the system to load Windows.

Right-click on My Computer icon and select Manage from the pop-up menu.

My Documents		
<u> </u>		
My Computer	Open	
<u> </u>	Explore	
	Search	
My Network Places	Map Network Drive	
	Disconnect Network Drive	
Recucia Pin	Create Shortcut	
Hecycle birt	Rename	
	Properties	
Internet		
Explorer		
SATARaid5		
Start 1	1 🧔 🛱 😪 »	5:38 PM

Select Disk Management under Storage to view the disk drives.

- Claustan (Ca)			And the second se	
System (C.) backup (D:) Anton 4008A (E:)	Partition Partition Partition	Basic Basic Basic	NTFS NTFS CDFS	Healthy (System Healthy Healthy
CP Disk 0 Basic 74.52 GB Online	ystem (C:) 4.75 GB NTFS ealthy (System)	backu 59.77 Health	ир (D:) GBNTFS У	
DVD (E:) 163 MB Online	A1014008A (E:) 53 MB CDFS ealthy			
	backup (D.) NA1014008A (E.) NA1014008A (E.) Disk 0 Basic 74.52 GB Online Drb (E.) DVD (E.) T63 MB Online N	backup (D:) Partition Alton (E:) Partition Alton (Disk 0 Basic T4 52 GB Orline Orline Orline Orline Orline Orline Disk 0 If 33 MB Orline Orline If 3 MB Orline Orline If 3 MB Orline Orline If 3 MB Orline Orline	Dackup (D:) Partition Basic NA1014008A (E:) Partition Basic NA1014008A (E:) Partition Basic System (C:) System (C:) System (C:) Dolate Basic System (C:) System (C:)	backup [D:) Partition Basic NTFS NA1014008A (E:) Partition Basic CDFS System (C:) backup (D:) System (C:) Sy

When Write Signature and Upgrade Disk Wizard appears, click Next>.

Write Signature and Upgrad	e Disk Wizard
	Welcome to the Write Signature and Upgrade Disk Wizard. This wizard writes signatures on new disks, and upgrades empty basic disks to dynamic disks. You can use dynamic disks to create software-based RAID volumes, which can be mirrored and striped or spanned across disks. You can also expand single-disk and spanned volumes without having to restarting the computer. After you upgrade a disk, you cannot use earlier versions of Windows on any volume on that disk. To continue, click Next.
-	Do not show this wizard again
	Next > Cancel

Select the new disk to write a signature, than click **<u>Next></u>**.

¥rite Signature	and Upgrade Disk W	/izard		×
Select Disk Choose ti	to Write Signature e disks on which you wa	nt to write a signature.	t.	
Select the	disks on which you want	to write a signature:		
1 🔽 Disk 1]			
			2	
		< Back	Next >	Cancel

Do not click any disk to upgrade to dynamic disk, than click Next>.

Select Disks to Upgrade	12410		
Choose the disks to be upgraded.			
Select the disks you want to upgrad	e:		
1 Disk 1			
		2	

When the Write Signature and Upgrade Disk Wizard has completed, click Finish.

Write Signature and Upgrad	e Disk Wizard	×
	Completing the Write Signature and Upgrade Disk Wizard You have successfully completed the Write Signature and Upgrade Disk Wizard.	
	You have selected these settings:	
	Write a signature on the following disks: Disk 1 Upgrade the following disks: None	
	To close this wizard, click Finish.	
	Kack Finish Cance	el

Right-click on the **Unallocated** partition and select **Create Partition...** from the pop-up menu.

Tree	Volume	Layout	Туре	File System	Status
Computer Management (Local)	system (C:) backup (D:) An 1014008A (E:)	Partition Partition Partition	Basic Basic Basic	NTFS NTFS CDFS	Healthy (System) Healthy Healthy
Device Manager Coal Users and Groups Storage Disk Management Disk Defragmenter Logical Drives Removable Storage Services and Applications	▲	system (C:) 14.75 GB NTFS Healthy (System)	back 59.77 Health	up (D:) GBNTFS ນ	
	CP Disk 1 Basic 1397.27 GB Online	1397.27 GB Unallocated		Create Partiti	ion
	CDRom 0 DVD (E:) 163 MB Online	NA1014008A (E:) 163 MB CDFS Healthy		Help	

Click **<u>Next></u>** to create a partition on a basic disk.

Create Partition Wizard	Welcome to the Create Partition Wizard This wizard helps you create a partition on a basic disk. A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. A basic disk may also contain volumes created with Windows NT 4.0 and earlier. You can also use MS-DOS to gain access to partitions on basic disks. To continue, click Next.
	< Back. Next > Cancel

Select the partition type you want to create, than click Next>.

Create Partition Wizard	
Select Partition Type You can specify what type of partition	to create.
Select the type of partition you want to 1 Thimary partition Extended partition	create:
Description A primary partition is a volume you o Windows 2000 and other operating You can create up to four primary p three primary partitions and an exter	reate using free space on a basic disk. systems can start from a primary partition. artitions on a basic disk, or you can make nded partition.
	< Back Next > Cancel

Specify the partition size you want to create, than click Next>.

How big do you want the partitic	on to be?
Choose a partition size that is sm	naller than the maximum disk space.
Maximum disk space:	1430805 MB
Minimum disk space:	7 MB
Amount of disk space to use: 1	1430805 🛨 MB

Assign the drive letter or path you want to create, than click Next>.

4		
ų	Assign a drive letter: F:	
	Browse	
	C De net existe a dése la transmis	
	C Do not assign a drive letter or drive path	

Click Format this partition with the following settings and Perform a Quick Format, setup the File system to use, Allocation unit size, Volume label, than click Next>.

C Do not format 1 • Format this pa Formatting	this partition artition with the followir	ng settings:		
- Formatting	articion with the followin	ig settings.		
File system 3 Allocation u Volume lab	touse: NTF unitsize: Defa el: New	S ault Volume	×	
2 🔽 Perform	a Quick Format	🗖 Enable file ar	nd folder compres	ssion

When the Create Partition Wizard has completed, click Finish.

Create Partition Wizard		×
	Completing the Create Partition Wizard You have successfully completed the Create Partition Wizard. You specified the following settings: Partition type: Primary Partition Disks Selected: Disk 1 Partition size: 1430805 MB Drive letter or path: F: File Surem: NTFS	
	Allocation Unit Size: Default Volume Label: New Volume To close this wizard, click Finish. K Back Finish Cance	

The status of the newly created partition in the Disk Management window should change to Formatting and the percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When complete, the status will change to "Healthy" and the name and drive letter will be updated. Once the disk reports Healthy, it appears in the listing in System Listing section with all of its pertinent information as well.

📮 Computer Management					
∫ Action ⊻iew ∫ 🗢 → 🗈 💽	12 1				
Tree	Volume	Layout	Туре	File System	Status
Computer Management (Local) System Tools System Tools Performance Logs and Alerts Device Manager Local Users and Groups Storage Disk Management Disk Defragmenter Logical Drives Removable Storage Services and Applications	 system (C:) backup (D:) New Volume (F:) NA1014008A (E:) 	Partition Partition Partition Partition	Basic Basic Basic Basic	NTFS NTFS NTFS CDFS	Healthy (System) Healthy Healthy Healthy
	Disk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTFS Healthy (System)	back 59.77 Health	ир (D:) GBNTFS УУ	
	Cisk 1 Basic 1397.27 GB Online	New Volume (F:) 1397.27 GB NTFS (Healthy			
	CDRom 0 DVD (E:) 163 MB Online	NA1014008A (E:) 163 MB CDFS Healthy			
	Primary Partition	Extended Partition	Logical Driv	e	

Repeat the above procedure as needed for any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be visible and properly named. The new disks are available for use.

💻 My Computer				- D X
File Edit View Favorites To	iols Help			-
] 🗧 Back 🔹 🔿 👻 🔂 🎯 Searc	h 📴 Folders	History	管哈×□	∩ ≣ •
Address 🖳 My Computer				▼ 🔗 Go
	ليني 3½ Floppy (A:)	system (C:)	backup (D:)	NA1014008A
My Computer				(E:)
New Volume (F:) Local Disk	New Volume	Control Panel	@C:\Program	
Capacity: 1.36 TB			riles (Comino	
🔲 Used: 108 MB				
Free: 1.36 TB				
Free Space: 1.36 TB, Capacity: 1.36 TB			🖳 My Co	mputer

3.4 INSTALLING ON WINDOWS XP (32/64-BIT)

3.4.1 INSTALLING SATA RAID HOST BUS ADAPTER

Follow the descriptions below, and step by step to complete the setup.

Insert the Setup and Installation Repository CD in the CD-ROM drive. When start the Windows O/S, new hardware will be found; Select **No, not this time**, than click **Next>**.

Found New Hardware Wiz	zard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time Click Next to continue.
	K Back Next > Cancel

Select Install from a list or specific location (Advanced), than click Next>.



Select Search for the best driver in there location, Include this location in the search, and click **Browse** to select the driver path, than click **Next>.**

Driver path for Windows 32-bit:

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\\Windows\32bits Browse Onn't search. I will choose the driver to install. Choose this option to select the device driver form a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

Driver path for Windows 64-bit:

und New	v Hardware Wizard
Please (choose your search and installation options.
1 💿 s U p	earch for the best driver in these locations. se the check boxes below to limit or expand the default search, which includes local aths and removable media. The best driver found will be installed.
1	Search removable media (floppy, CD-ROM)
2	E:\Driver\Sil3132R5\Windows\64bits Browse
O D Cl th	on't search. I will choose the driver to install. hoose this option to select the device driver from a list. Windows does not guarantee tha e driver you choose will be the best match for your hardware.
	K Back Next > 🔪 Cancel

When the installation has completed, click Finish.

Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: Silicon Image Sil 3132 SoftRaid 5 Controller
And a state of the second	Click Finish to close the wizard.
	K Back Finish Cancel

3.4.2 INSTALLING SATARAID5 UTILITY

Follow the descriptions below, and step by step to complete the installation.

Open the **Setup and Installation Repository CD** and **select the SATARAID5 Array Manager software** from the Utility folder.

Double-click the utility file.





Click <u>Next></u> to begin setup.



Select I Agree, than click Next>.

3132-W-132-R SATARA	ID5	
icense Agreemen	t	N
'lease take a moment to read t gree", then "Next". Otherwise	he license agreement now. If you accept click "Cancel".	the terms below, click "I
	Silicon Image, Inc.	~
SOFT	WARE LICENSE AGREEME	NT
PLEASE READ TH CAREFULLY BEFO USING THE SOFTW DOCUMENTATION	E FOLLOWING TERMS AND DRE DOWNLOADING, INST VARE OR ANY ACCOMPAN N (COLLECTIVELY, THE ''8	D CONDITIONS ALLING OR IYING SOFTWARE'').
THE TERMS AND	CONDITIONS OF THIS SOF	TWARE
OI Do Not Agree	1 Ol Agree	
		2

Select Place shortcut on Desktop, than click <u>N</u>ext> to create a shortcut on the desktop.

谩 3132-W-I32-R SATARAID5	
Do you want to add a shortcut to your Desktop?	R)
1 Place shortcut on Desktop	
	0
Cancel < Back	Next >

Click **<u>Next></u>** to use the default installation folder.

3132-W-I32-R SATARAID5	
Select Installation Folder	()
The installer will install 3132-W-I32-R SATARAID5 to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it be	elow or click "Browse".
<u>F</u> older:	
C:\Program Files\Silicon Image\3132-W-I32-R SATARAID5\	Browse
	Disk Cost
	Disk Cost

Click <u>Next></u> to begin the installation.

7 31 32-W-132-R SATARAID5	🛛
Confirm Installation	
The installer is ready to install 3132-W-I32-R SATARAID5 on your computer.	
Click "Next" to start the installation.	
Cancel	Next >

When SATARAID5 installation has completed, click **Close** to exit.



Select I <u>accept the terms in the license agreement</u>, than click <u>Next></u> to begin the Java platform installation.



Select **Typical**, than click **Next>**.

👹 J2SE Runti	me Environment 5.0 Update 5 - Setup Type 🛛 🛛 🔀
Setup Type Choose the s	setup type that best suits your needs.
Please select using the Add	a setup type. You can change your choice of features after installation by d/Remove Programs utility in the Control Panel.
1 • Typical	All recommended features will be installed.
O Custom	Specify the installation directory and choose which program features to install. Recommended for advanced users.
InstallShield	< Back Next > Cancel

When Java platform installation has completed, click **<u>Finish</u>** to exit.

🕲 J2SE Runtime Environment 5.0 Update 5 - Complete				
	Installation Completed			
	The Install Wizard has successfully installed J2SE Runtime Environment 5.0 Update 5. Click Finish to exit the wizard.			
Sun Java				
	< Back Finish Cancel			

Select Start > All Programs > Silicon Image > SATARaid5Manager to start the Array Manager software.

3.4.3 DISK DRIVE MODE SETUP

Please refer to the chapter 4.

3.4.4 ALLOCATING PARTITIONS ON WINDOWS XP 32-BIT

Before creating any partitions, RAID groups must first be created using the SATARaid5Manager utility. Once the sets have been created, allow the system to load Windows.

Right-click on My Computer icon and select Manage from the pop-up menu.



Select Disk Management under Storage to view the disk drives.

🖶 Computer Management					
🖳 File Action View Window Hel	p				X
		-7.0		- AL	
Computer Management (Local)	Volume	Layout	Туре	File System	Status
🖃 🌇 System Tools	system (C:)	Partition	Basic	NTES	Healthy (System)
Event Viewer	Backup (D:)	Partition	Basic	NTES	Healthy
Shared Polders Shared Polders Soft Local Users and Groups Soft Device Manager Sorage Sorage Soft Defragmenter Disk Defragmenter Disk Management Services and Applications	NA1014008A (E:)	Partition	Basic	CDF5	Healthy
	Basic 74.52 GB Online	system (C:) 14.75 GB NTFS Healthy (Syste	5 em)	backup (D 59.77 GB NT Healthy	;) FS
	DVD 163 MB Online	NA1014008# 163 MB CDFS Healthy	A (E:)		
	Primary partition	Extended pa	rtition 📘 Log	gical drive	

When Initialize and Convert Disk Wizard appears, click Next>.

Initialize and Convert Disk	Wizard
	Welcome to the Initialize and Convert Disk Wizard This wizard helps you to initialize new disks and to convert empty basic disks to dynamic disks. You can use dynamic disks to create software-based RAID volumes that can be mirrored, or they can be striped or spanned across multiple disks. You can also expand single-disk and spanned volumes without having to restart the computer. After you convert a disk to dynamic, you can only use Windows 2000 and later versions of Windows on any volume of that disk. To continue, click Next.
	K Back Next > Cancel

Select the new disk to initialize, than click <u>Next></u>.

Initialize and Convert Disk Wizard	
Select Disks to Initialize You must initialize a disk before Logical Disk Manager can	access it.
Select one or more disks to initialize.	
< Back	Next > Cancel

Do not click any disk to convert, than click Next>.

Initialize and Convert Disk Wizard	
Select Disks to Convert The disks you select will be converted to dynamic disks.	
Select one or more disks to convert:	
Disks:	
< Back Next	Cancel

When the Initialize and Convert Disk Wizard has completed, click Finish.

Initialize and Convert Dis	k Wizard 🛛 🔀
	Completing the Initialize and Convert Disk Wizard You have successfully completed the Initialize and Convert Disk Wizard. You selected the following settings: Initialize: Disk 1 Convert: None
	< Back Finish Cancel

Right-click on the Unallocated partition and select New Partition... from the pop-up menu.

■ File Action View Window Hel ← → € III (2) (2) (2) (2) (3)	p				<u>_181 ×</u>
Computer Management (Local) System Tools Computer Viewer Shared Folders Cocal Users and Groups Cocal Users and Groups Cocal Users and Groups Cocal Users and Groups Cocal Users and Alerts Cocal User and Alerts Cocal User Storage Cocal User Cocal Users Cocal	Volume System (C:) backup (D:) NA1014008A (E	Layout Partition Partition :) Partition	Type Basic Basic Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy
	Disk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTF5 Healthy (System)	bac 59.7 Heal	kup (D:) 7 GB NTFS thy	
	Contraction Contra	1397.27 GB Unallocated		New Partiti Properties	on
	DVD 163 MB Online	NA1014008A (E:) 163 MB CDF5 Healthy Primary partition	ended partit	Help	re

Click **<u>Next></u>** to create a partition on a basic disk.

New Partition Wizard	
	Welcome to the New Partition Wizard This wizard helps you create a partition on a basic disk. A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks. To continue, click Next.
	K Back Next > Cancel

Select the partition type you want to create, than click Next>.

Select Partition Type There are three types of partition	ns: primary, extended, and logical.
Select the partition you want to	create:
1 O Primary partition	
O Extended partition	
C Logical drive	
Description	
A primary partition is a volume Windows and other operating create up to four primary part partition.	e you create using free space on a basic disk. 3 systems can start from a primary partition. You can tions or three primary partitions and an extended

Specify the partition size you want to create, than click Next>.

New Partition Wizard	
Specify Partition Size Choose a partition size that is between the maximum and i	ninimum sizes.
Maxium disk space in megabytes (MB): 1430805 Minimum disk space in MB: 8 Partition size in MB: 1	
< Back	Next > Cancel

Assign the drive letter or path you want to create, than click Next>.

lew	Partition Wizard
As	ssign Drive Letter or Path For easier access, you can assign a drive letter or drive path to your partition.
1	Assign the following drive letter:
	Mount in the following empty NTFS folder: Browse Do not assign a drive letter or drive path
	2
	< Back Next > Cancel

Click Format this partition with the following settings and Perform a quick format, setup the File system, Allocation unit size, Volume label, than click Next>.

Choo	use whether you want to form	nat this partition, and if so,	what settings you v	vant to use.
10	Do not format this partition Format this partition with th	e following settings:		
ſ	File system:	NTFS	~	
3	Allocation unit size:	Default	~	
	Volume label:	New Volume		
2	Perform a quick form	iat		
	Enable file and folde	r compression		

When the New Partition Wizard has completed, click Finish.

New Partition Wizard	
	Completing the New Partition Wizard You have successfully completed the New Partition Wizard.
	Partition type: Primary partition Disk selected: Disk 1 Partition size: 1430805 MB Drive letter or path: F: File system: NTFS Allocation unit size: Default Volume label: New Volume Duick format Yes
	To close this wizard, click Finish.
	< Back Finish Cancel

The status of the newly created partition in the Disk Management window should change to Formatting and the percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When complete, the status will change to "Healthy" and the name and drive letter will be updated. Once the disk reports Healthy, it appears in the listing in System Listing section with all of its pertinent information as well.

📕 Computer Management					
📃 File Action View Window Help	ž.				×
⇔ → 🗈 📧 😫 🖸 🗙 📽 🕻	ž 🔍 😼				
Computer Management (Local) System Tools System Tools Shared Folders Cocal Users and Groups Performance Logs and Alerts Device Manager Storage Storage Disk Defragmenter Disk Management Services and Applications	Volume Volume System (C:) backup (D:) New Volume (F:) NA1014008A (E C Disk 0 Basic 74.52 GB Online Disk 1 Basic 1397.27 GB Online CD-ROM 0 DVD 163 MB Online	Layout Partition Partition Partition Partition Partition system (C:) 14.75 GB NTFS Healthy (System) New Yolume (F:) 1397.27 GB NTFS Healthy NA1014008A (E:) 163 MB CDFS Healthy	Type Basic Basic Basic Basic Saci Saci Saci	File System NTFS NTFS CDFS CDFS	Status Healthy (System) Healthy Healthy Healthy
	Primary partition	Extended partition	Logical di	ive	

Repeat the above procedure as needed for any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be visible and properly named. The new disks are available for use.

💈 My Computer		
File Edit View Favorites Tools	Help	1
🕝 Back - 🕥 - 🏂 🔎 S	earch 📂 Folders	
Address 😼 My Computer		🖌 🄁 Go
System Tasks	Files Stored on This Computer Shared Documents CFI's Documents	
Change a setting	Hard Disk Drives	
Other Places Image: Control Places Image: Control Places Image: Control Places Image: Control Planel Image: Control Planel	system (C:) Solution (D:)	
	Devices with Removable Storage	
Details New Yolume (F:) Local Disk File System: NTFS Free Space: 1.36 TB Total Size: 1.36 TB	WA1014008A (E:) Other Nero Scout	

3.4.5 ALLOCATING PARTITIONS ON WINDOWS XP 64-BIT

Before creating any partitions, RAID groups must first be created using the SATARaid5Manager utility. Once the sets have been created, allow the system to load Windows.

Right-click on My Computer icon and select Manage from the pop-up menu.



Select Disk Management under Storage to view the disk drives.

📕 Computer Management					
📕 File Action View Window Helj	5				
📕 Computer Management (Local)	Volume	Layout	Туре	File System	Status
System Tools System Tools Solared Folders Solared Folders Solared Folders Solares and Groups Solares Anager Storage	■system (C:) ■backup (D:) @NA1014008A (E	Partition Partition :) Partition	Basic Basic Basic	NTFS NTFS CDF5	Healthy (System) Healthy Healthy
Removable Storage Dick Defragmenter	<u><</u>				>
Bisk Defragmenter Disk Management Disk Management Services and Applications	Contraction Contractico Contra	system (C:) 14.75 GB NTFS Healthy (System))	backup (D: 59.77 GB NTF Healthy) ⁵⁵
	DVD 163 MB Online	NA1014008A (163 MB CDF5 Healthy	(E:)		
	Primary partition	Extended partiti	on 📘 Logica	al drive	1

When Initialize and Convert Disk Wizard appears, click Next>.

Initialize and Convert Disk	Wizard
	Welcome to the Initialize and Convert Disk Wizard This wizard helps you to initialize new disks and to convert empty basic disks to dynamic disks. You can use dynamic disks to create software-based RAID volumes that can be mirrored, or they can be striped or spanned across multiple disks. You can also expand single-disk and spanned volumes without having to restart the computer. After you convert a disk to dynamic, you can only use Windows 2000 and later versions of Windows on any volume of that disk. To continue, click Next.
	K Back Next > Cancel

Select the new disk to initialize, than click <u>Next></u>.

Initialize and Convert Disk Wizard	
Select Disks to Initialize You must initialize a disk before Logical Disk Manager can access it.	
Select one or more disks to initialize. Disks: 1 Disk1	
< Back Next >	Cancel

Do not click any disk to convert, than click Next>.

Initialize and Convert Disk Wizard	
Select Disks to Convert The disks you select will be converted to dynamic disks.	
Select one or more disks to convert:	
Disks:	
When the Initialize and Convert Disk Wizard has completed, click Finish.

Initialize and Convert Dis	k Wizard
	Completing the Initialize and Convert Disk Wizard You have successfully completed the Initialize and Convert Disk Wizard. You selected the following settings: Initialize to MBR: Disk 1 Convert: None
	K Back Finish Cancel

Windows 64-bit system supports GPT disk which supports disk volume greater than 2TB.

Computer Management (Local)	Volume System (C:) backup (D:) NA1014008A (E	Layout Partition Partition :) Partition	Type Basic Basic Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy
Storage Storage Memovable Storage Disk Defragmenter Disk Management Services and Applications	Contraction Contractic Con	system (C:) 14.75 GB NTFS Healthy (System)	ba 59 He	ickup (D:) .77 GB NTFS althy	-
	CPDisk 1 Basic 2794.53 GB Online	2048.00 GB Unallocated		746.54 G Unallocat	B ed
	CD-ROM 0 DVD 163 MB Online	NA1014008A (163 MB CDFS Healthy	E:)		

Right-click on the Basic disk and select Convert to GPT disk from the pop-up menu.

⇒ È III 😢 🛱 📓					
Computer Management (Local)	Volume System (C:)	Layout Partition Partition	Type Basic Basic	File System NTFS NTFS	Status Healthy (System) Healthy
Shared Folders Local Users and Groups Groups Performance Logs and Alerts Device Manager	@NA1014008A (E:) Partition	Basic	CDFS	Healthy
Storage Storage Disk Defragmenter Disk Management Services and Applications	Contraction Contractico Contra	system (C:) 14.75 GB NTFS Healthy (System)	bac 59.1 Hea	:kup (D:) 77 GB NTFS ilthy	
	CDisk 1 Basic 2794.53 GB Online	2048.00 GB Convert to Dynan	nic Disk	746.54 G Unallocati	B ed
	DVD 163 MB	Convert to GPT D Properties	isk 🔪		
	Online	Help			

Right-click on the **Unallocated** partition and select **New Partition...** from the pop-up menu.

	P				-10
Computer Management (Local) K System Tools Computer Viewer Computer Vi	Volume System (C:) backup (D:) NA1014008A (E:)	Layout Partition Partition Partition	Type Basic Basic Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy
Banger Storage Banger Removable Storage Disk Defragmenter Disk Management Banger Services and Applications	CDisk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTFS Healthy (System)	ba 59. He	ckup (D:) 77 GB NTFS althy	
	CDisk 1 Basic 2794.42 GB Online	2794.42 GB Unallocated		New Par Propertie	tition
	DVD DVD 163 MB Online	NA1014008A (E:) 163 MB CDFS Healthy)	Help	

Click **<u>N</u>ext>** to create a partition on a basic disk.

New Partition Wizard	
	Welcome to the New Partition Wizard This wizard helps you create a partition on a basic disk. A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. Partitions created on Master Boot Record (MBR) disks can be accessed from any version of Windows or MS-DOS. Partitions created on GUID Partition Table (GPT) disks can only be accessed from Windows Server 2003 Service Pack 1 or later, or from any 64-bit version of Windows. To continue, click Next.
	< Back Next > Cancel

Select the partition to create, than click Next>.

New Partition Wizard	D
Select Partition Type There are three types of partitions: primary, extended, and logica	al.
Select the partition you want to create:	
1 O Primary partition	
O Extended partition	
C Logical drive	
Description	
A primary partition is a volume you create using free space or Windows and other operating systems can start from a primar create up to 128 primary partitions on a GPT basic disk. On a Record (MBR) basic disk, you can create up to four primary p primary partitions and an extended partition.	n a basic disk. y partition. You can Master Boot bartitions or three
C Back	Next > Cancel

Specify the partition size you want to create, than click Next>.

Specify Partition Size Choose a partition size that is between the	e maximum and minimum sizes.
Maxium disk space in megabytes (MB): Minimum disk space in MB: Partition size in MB: <mark>1</mark>	2861487 8 2861487
	<pre> < Back Next > Cancel</pre>

Assign the drive letter or path you want to create, than click Next>.

New Partition Wizard	×
Assign Drive Letter or Path For easier access, you can assign a drive letter or drive path to your partition.	
1 O Assign the following drive letter:	
Mount in the following empty NTFS folder:	
O Do not assign a drive letter or drive path	
< Back Next > 2	Cancel

Click Format this partition with the following settings and Perform a quick format, setup the File system, Allocation unit size, Volume label, than click Next>.

1 Image: Fride system: NTFS 3 Allocation unit size: Default Volume label: New Volume	Choo	se whether you want to form	nat this partition, and if so, what setti	ngs you want to use.
File system: NTFS Allocation unit size: Default Volume label: New Volume	10) Format this partition with th	e following settings:	
Allocation unit size: Default Volume label: New Volume	ſ	File system:	NTFS 💌	Ì.
Volume label: New Volume	3	Allocation unit size:	Default 💌	
		Volume label:	New Volume	
2 Perform a quick format	2	Perform a quick form	at	61

Completing the New Partition Wizard You have successfully completed the New Partition Wizard.
You selected the following settings: Partition type: Primary partition Disk selected. Disk 1 Partition size: 2861487 MB Drive letter or path. F: File system: NTFS Allocation unit size: Default Volume labet: New Volume Duick format: Yes To close this wizard, click Finish.

When the New Partition Wizard has completed, click Finish.

The status of the newly created partition in the Disk Management window should change to Formatting and the percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When complete, the status will change to "Healthy" and the name and drive letter will be updated. Once the disk reports Healthy, it appears in the listing in System Listing section with all of its pertinent information as well.

📕 Computer Management					
📕 File Action View Window Help					X
	🎽 🔯 📓				
 Computer Management (Local) System Tools System Tools Shared Folders Shared Folders Coal Users and Groups Performance Logs and Alerts Device Manager Storage Removable Storage Disk Defragmenter Disk Management Services and Applications 	Volume system (C:) backup (D:) New Volume (F: NA1014008A (E)	Layout Partition Partition Partition :) Partition	Type Basic Basic Basic Basic	File System NTF5 NTF5 NTF5 CDF5	Status Healthy (System) Healthy Healthy Healthy
	Disk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTFS Healthy (System)	ba 59. He	ckup (D:) 77 GB NTFS althy	
	CDisk 1 Basic 2794,42 GB Online	New Volume (F:) 2794.42 GB NTF5 Healthy			
	CD-ROM 0 DVD 163 MB Online Primary partition	NA1014008A (E: 163 MB CDF5 Healthy Extended partition	:) n 📕 Logic	al drive	
	201				

Repeat the above procedure as needed for any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be visible and properly named. The new disks are available for use.

💈 My Computer		
File Edit View Favorites Tools	Help	
🜀 Back - 🕥 - 🏂 🔎 Se	earch 🍋 Folders 🛄 •	
Address 🚽 My Computer		🖌 🄁 Go
System Tasks 🛞	Files Stored on This Computer	
View system information	Shared Documents Administrator's Document	s
Other Places	system (C:) Solution (D:)	
Details (*)	Devices with Removable Storage	
New Volume (F:) Local Disk File System: NTFS Free Space: 2.72 TB Total Size: 2.72 TB	31/5 Floppy (A:) NA1014008A (E:)	

3.5 INSTALLING ON WINDOWS SERVER 2003 (32/64-BIT)

3.5.1 INSTALLING SATA RAID HOST BUS ADAPTER

Follow the descriptions below, and step by step to complete the setup.

Insert the Setup and Installation Repository CD in the CD-ROM drive. When start the Windows O/S, new hardware will be found; Select **No, not this time**, than click **Next**>.

Found New Hardware Wiza	···
Sec.	Welcome to the Found New
	Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Bana Allandin	Online privacy information
	Can Windows connect to Windows Update to search for software?
	C ⊻es, this time only
	Yes, now and every time I connect a device
A STREET, STRE	1 <u>No. not this time</u>
Contraction of the local division of the loc	Click Next to continue
	CICK Weat to continue.
	< Back Next > Cancel

Select Install from a list or specific location (Advanced), than click Next>.

Found New Hardware Wizard	
	This wizard helps you install software for: RAID Controller If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? C Install the software automatically (Recommended) I C Install from a list or specific location (Advanced)
	Click Next to continue.
	<u> </u>

Select Search for the best driver in there location, Include this location in the search, and click **Browse** to select the driver path, than click **Next>.**

se choose your search and installation options.		
Search for the best driver in these locations: Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-RDM) Chouse this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Cance the the best driver in these locations. Search for the best driver in these locations. Search removable media. The best driver found will be installed. Search removable media. The best driver found will be installed. Search removable media. The best driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search for the best driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.	ease c	hoose your search and installation options.
Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\32bits	• <u>s</u> e	arch for the best driver in these locations:
parts and removable media. The best driver round will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\32bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Ver path for Windows 64-bit: we Hardware Wizard se choose your search and installation options. Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media (floppy, CD-ROM) Image: Converting the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.	Us	the check boxes below to limit or expand the default search, which includes loc
Search removable media (floppy, CD-RDM) Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Cance the driver with the driver in these locations. Search for the best driver in these locations. Search removable media (floppy, CD-RDM) Control the driver in the search: Search for the best driver in these locations. Search removable media. The best driver from a list. Windows does not guarant the driver you choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search for the best driver in these locations. Search for the best driver in these locations. Search removable media (floppy, CD-RDM) Control the driver in the search: Search I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Cancel Ca	pa	ns and removable media. The best driver round will be installed.
	ſ	Search removable media (Noppy, CD-HUM)
	2	Include this include this include this include this include this include the search. Include the search. Include this include the search. Include this include the search. Include this include the search. Include the
 Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. weet a search for Windows 64-bit: Can Wer path for Windows 64-bit: Wer path for Windows 64-bit: Wer Hardware Wizard Search for the best driver in these locations. Search for the best driver in these locations. Search removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. 	ા	
Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.	C D	n't search. I will choose the driver to install.
< Back Next > 3 Can ver path for Windows 64-bit: Can wer path for the best driver in these locations: Can Search for the best driver in these locations: Search removable media. The best driver found will be installed. Search removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Implicit this location in the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Seack Next > 3	Ch	pose this option to select the device driver from a list. Windows does not guarant
	une	unver you choose will be the best match for your hardware.
<u>A Back</u> Next > 2 Can <u>Ver path for Windows 64-bit:</u> Wer hardware Wizard se choose your search and installation options. Search for the best driver in these locations: Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this Igcation in the search: E:Driver/Sil3132R5\Windows\64bits Browse Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search . Windows does not guarant Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.		
(Back Next > 2 Can (Can (Next > 2 Can (Next > 2 C		
		. 3.
Search for the best driver in these locations. Search removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Control the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. A Back Next> Can		< <u>B</u> ack <u>N</u> ext> Can
Search for the best driver in these locations. Search for the best driver in these locations. Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this Igcation in the search: E:\Driver\Sil3132R5\Windows\64bits Browse On't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.		<u> </u>
w Hardware Wizard se choose your search and installation options. Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Conclude this Igcation in the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. A Back Next > 3 Can	rive	r path for Windows 64-bit:
se choose your search and installation options. Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Converting include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search Next>	New H	ardware Wizard
Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Image: Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.		
Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Image: Search removable media (floppy, CD-ROM) Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search Search Next> Can	380.0	hoose your search and installation options
Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Image: Search removable media (floppy, CD-ROM) Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search Temporal Search (Search (Searc	ase c	hoose your search and installation options.
Use the check boxes below to limit or expand the default search, which includes loc paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. Search & Windows does not guarant (Back Next > 3 Can	ase c	hoose your search and installation options.
paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Image: Comparison of the search: E:\Driver\Sil3132R5\Windows\64bits Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.	ase c	hoose your search and installation options.
Search removable media (floppy, CD-ROM) 2 ✓ Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits 2 Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. < Back Next > 3 Can	ase c <u>S</u> e Us	hoose your search and installation options. arch for the best driver in these locations. a the check boxes below to limit or expand the default search, which includes loc
2 Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits ■ Browse Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. < Back Next > 3 Can	ase c	hoose your search and installation options. arch for the best driver in these locations. a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed.
E:\Driver\Sil3132R5\Windows\64bits Browse Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. <back next=""> 3 Can</back>	ase c Us pa	hoose your search and installation options. arch for the best driver in these locations: a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed.
Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware. < Back Next > 3 Can	ase c Us pal	hoose your search and installation options. arch for the best driver in these locations. a the check boxes below to limit or expand the default search, which includes loc is and removable media. The best driver found will be installed. Search removable media (floppy, CD-RDM) Include this location in the search:
Choose this option to select the device driver from a list. Windows does not guarant the driver you choose will be the best match for your hardware.	ese c Us pal 2	arch for the best driver in these locations. arch for the best driver in these locations. a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media. The best driver found will be installed. Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Browse
the driver you choose will be the best match for your hardware.	ese c Us pal	hoose your search and installation options. arch for the best driver in these locations. the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Browse n't search L will choose the driver to install
<back next=""> 3 Can</back>	ese c Us pal	hoose your search and installation options. arch for the best driver in these locations. a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) ✓ Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits m't search. I will choose the driver to install. arcs this option to select the device driver from a list. Windows descent curvert
<back next=""> 3 Can</back>	ase c Us pa 2 C Dr Ch the	hoose your search and installation options. arch for the best driver in these locations. a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Include this location in the search: Driver\Sil3132R5\Windows\64bits Int search. I will choose the driver to install. sose this option to select the device driver from a list. Windows does not guarant driver you choose will be the best match for your hardware.
<back next=""> 3 Can</back>	ease c Us pair 2 C Du C Du C Du C Du C Du	hoose your search and installation options. arch for the best driver in these locations: a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Browse Int search. I will choose the driver to install. boose this option to select the device driver from a list. Windows does not guarant driver you choose will be the best match for your hardware.
< <u>B</u> ack Next> <mark>₹</mark> Can	ease c Us pair 2 C Do C Do C Do C he	hoose your search and installation options. arch for the best driver in these locations: a the check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Browse In't search. I will choose the driver to install. soase this option to select the device driver from a list. Windows does not guarant driver you choose will be the best match for your hardware.
	$\frac{se c}{\sum_{pa}}$	hoose your search and installation options. arch for the best driver in these locations: athe check boxes below to limit or expand the default search, which includes loc hs and removable media. The best driver found will be installed. Search removable media (floppy, CD-RDM) Include this location in the search: E:\Driver\Sil3132R5\Windows\64bits Int search. I will choose the driver to install. Dose this option to select the device driver from a list. Windows does not guarant driver you choose will be the best match for your hardware.

When the installation has completed, click Finish.

Found New Hardware Wizar	Completing the Found New
	Hardware Wizard
	The wizard has finished installing the software for:
	Silicon Image Sil 3132 SoftRaid 5 Controller
	Click Finish to close the wizard.
	< Back Finish Cancel

3.5.2 INSTALLING SATARAID5 UTILITY

Follow the descriptions below, and step by step to complete the installation. Open the **Setup and Installation Repository CD** and select the **SATARAID5 Array Manager** software from the Utility folder.

Double-click the utility file.

# Utility for Windows 32-bit:	
E:\CFI-B4043ER\Utility\Windows\32bits	_O×
Eile Edit View Favorites Tools Help	1
🔇 Back 👻 🕤 🖌 🎲 🔎 Search 🌔 Folders 🛛 🔯 🗯	× 4 🖽 -
Address E:\Utility\SiI3132R5\Windows\32bits	💌 🛃 Go
3132-W-I32-R.msi Windows Installer Package 16,487 KB releasenote.txt Text Document 1 KB	

Utility for Windows 64-bit:



Click **<u>N</u>ext>** to begin setup.

3132-W-I32-R 5ATARAID5			
Welcome to the 3132- Wizard	W-132-R SAT	ARAID5 Set	up 👔
The installer will guide you through the computer. To continue, click Next.	e steps required to ins	tall 3132-W-132-R SA1	ARAID5 on your
	Cancel	< <u>B</u> ack	Next >

Select I Agree, than click Next>.

3132-W-I32-R SATARA	ID5	
_icense Agreeme	nt	\$
Please take a moment to read Agree", then "Next". Otherwi	d the license agreement now. If you according to the license agreement now. If you according the license of the	ept the terms below, click "I
SOF	Silicon Image, Inc. TWARE LICENSE AGREEM	1ENT
PLEASE READ TH CAREFULLY BEH USING THE SOFT DOCUMENTATIO	HE FOLLOWING TERMS A FORE DOWNLOADING, IN: WARE OR ANY ACCOMP. ON (COLLECTIVELY, THE	ND CONDITIONS STALLING OR ANYING "SOFTWARE").

Select Place shortcut on Desktop, than click <u>N</u>ext> to create a shortcut on the desktop.

🖶 3132-W-I32-R SATARAID5			_ 🗆 🗙
Do you want to add a st	nortcut to yo	our Desktop?	
1 Place shortcut on Desktop			
	Cancel	<a><u>Back</u>	Next > 2

Click **<u>N</u>ext>** to use the default installation folder.



Click **<u>Next></u>** to begin the installation.



When SATARAID5 installation has completed, click **Close** to exit.



Select I <u>accept the terms in the license agreement</u>, than click <u>Next></u> to begin the Java platform installation.



Select Typical, than click Next>.

🚽 J25E Runtin	ne Environment 5.0 Update 5 - Setup Type	×
Setup Type Choose the	setup type that best suits your needs.	<u>Sun</u>
Please select using the Ad	t a setup type. You can change your choice of features after installation by dd/Remove Programs utility in the Control Panel.	
1 • <u>Typica</u>	All recommended features will be installed.	
C Custon	n Specify the installation directory and choose which program features to install. Recommended for advanced users.	
installShield ——	< Back Next > Cance	el

When Java platform installation has completed, click **<u>Finish</u>** to exit.

🙀 J25E Runtime Environmen	it 5.0 Update 5 - Complete	×
	Installation Completed	
	The Install Wizard has successfully installed J2SE Runtime Environment 5.0 Update 5. Click Finish to exit the wizard.	
Sun. Java		
	< Back Finish Cancel	

Select Start > All Programs > Silicon Image > SATARaid5Manager to start the Array Manager software.

3.5.3 DISK DRIVE MODE SETUP

Please refer to the chapter 4.

3.5.4 ALLOCATING PARTITIONS

Before creating any partitions, RAID groups must first be created using the SATARaid5Manager utility. Once the sets have been created, allow the system to load Windows.

Right-click on My Computer icon and select Manage from the pop-up menu.



Select Disk Management under Storage to view the disk drives.

□ Computer Management □ File Action Yiew Window Help Image: Second Secon	:				
Computer Management (Local) System Tools Superator Viewer Shared Folders Shared Folders Solution Storage Stor	Volume System (C:) backup (D:) NA1014008A (E:)	Layout Partition Partition) Partition	Type Basic Basic Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy
	Disk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTFS Healthy (Syster	n)	backup (59.77 GB N Healthy) ЛF5
	DVD 163 MB Online	NA1014008A 163 MB CDFS Healthy	(E:)		
	Primary partition	Extended part	ition 📘 Lo	gical drive	

When Initialize and Convert Disk Wizard appears, click Next>.

Initialize and Convert Disk W	/izard	×
	Welcome to the Initialize and Convert Disk Wizard This wizard helps you to initialize new disks and to convert empty basic disks to dynamic disks. You can use dynamic disks to create software-based volumes that can be mirrored, or they can be striped or spanned across multiple disks. You can also expand single-disk and spanned volumes without having to restart the computer. After you convert a disk to dynamic, you can only use Windows 2000 and later versions of Windows on any volume of that disk. To continue, click Next.	
	< Back Next > Cancel	

Select the new disk to initialize, than click <u>Next></u>.

itialize and Convert Disk Wi	ard			
Select Disks to Initialize You must initialize a disk b	efore Logical Disl	< Manager can a	access it.	
Select one or more disks to	initialize.			
1 Disk 1				
1				
		< Back	Next > 2	Cancel

Do not click any disk to convert, than click Next>.

Select Disks to Convert		
The disks you select will be converted to dyn	amic disks.	
Select one or more disks to convert:		
Disks:		

Initialize and Convert Disk W	lizard	×
	Completing the Initialize and Convert Disk Wizard You have successfully completed the Initialize and Convert Disk Wizard. You selected the following settings: Initialize to MBR: Disk 1 Convert: None	
	To close this wizard, click Finish.	8

When the Initialize and Convert Disk Wizard has completed, click Finish.

Windows Server 2003 SP1 or later system supports GPT disk which supports disk volume greater than 2TB.

Computer Management					
Eile Action View Window Help ← → € 🖬 😵 🕼 📽 😡					_8×
Computer Management (Local) System Tools Computer Viewer Computer View	Volume Layout Type swer System (C:) Partition Basic backup (D:) Partition Basic srs and Groups anager NA1014008A (E:) Partition Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy		
Removable Storage Sisk Defragmenter Disk Management Services and Applications	Cisk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTF5 Healthy (System)	bad 59. Hea	ckup (D:) 77 GB NTFS althy	
	Basic 2794.53 GB Online	2048.00 GB Unallocated		746.54 GE Unallocate	d
	DVD 163 MB Online	NA1014008A (I 163 MB CDFS Healthy	E:)		
	Unallocated	Primary partition	Extended p	partition 📕 Logica	l drive

Right-click on the **Basic disk** and select **Convert to GPT disk** from the pop-up menu.

□ Computer Management □ File Action View Window Help ← → • • •			_		_D× _B×
Computer Management (Local) System Tools Cynetre Ware Book Strate Forders Computer Management (Local) Computer Management (Loca	Volume System (C:) backup (D:) NA1014008A (E	Layout Partition Partition (:) Partition	Type Basic Basic Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy
Storage Storage Storage Disk Defragmenter Disk Management Sorage Disk Management Sorage Disk Management	CDisk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTF5 Healthy (System) ba 59. He	ckup (D:) .77 GB NTFS althy	
	Basic 2794.53 GB Online	2048.00 GB Convert to Dyna	mic Disk.,,	746.54 GE Unallocate	3 ed
	DVD 163 MB Online	Convert to GPT [Properties	Disk 🔪		
		Help Primary partition	Extended p	Dartition 📕 Logica	l drive

Right-click on the Unallocated partition and select New Partition... from the pop-up menu.

🗐 Eile Action Yiew Window Help)				×
Computer Management (Local) System Tools Demote Section 1	Volume System (C:) backup (D:) NA1014008A (E:	Layout Partition Partition) Partition	Type Basic Basic Basic	File System NTFS NTFS CDFS	Status Healthy (System) Healthy Healthy
Device Manager Storage	•			1	1
Removable Storage Disk Defragmenter Disk Management Services and Applications	CDisk 0 Basic 74.52 GB Online	system (C:) 14.75 GB NTF5 Healthy (System)	ba 59. He.	ckup (D:) .77 GB NTFS althy	
	CPDisk 1 Basic 2794.42 GB Online	2794.42 GB Unallocated		New Par	tition
	DVD 163 MB Online	NA1014008A (163 MB CDFS Healthy	E:)	Help	

Click **<u>N</u>ext>** to create a partition on a basic disk.

New Partition Wizard		×
	Welcome to the New Partition Wizard This wizard helps you create a partition on a basic disk. A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. Partitions created on Master Boot Record (MBR) disks can be accessed from any version of Windows or MS-DDS. Partitions created on GUID Partition Table (GPT) disks can only be accessed from Windows Server 2003 Service Pack 1 or later, or from any 64-bit version of Windows. To continue, click Next.	
	K Back Next > Cancel	

Select the partition to create, than click Next>.

	partition you want to create:
	nded partition
	cal drive
	on
ĸ. 'ou can bt hree	y partition is a volume you create using tree space on a basic disk. is and other operating systems can start from a primary partition. You (ip to 128 primary partitions on a GPT basic disk. On a Master Boot (MBR) basic disk, you can create up to four primary partitions or three partitions and an extended partition.
k. 'ou can bt hree	on y partition is a volume you create using free space on a basic disk. is and other operating systems can start from a primary partition. You of to 128 primary partitions on a GPT basic disk. On a Master Boot [MBR] basic disk, you can create up to four primary partitions or three partitions and an extended partition.

Specify the partition size you want to create, than click Next>.

Specify Partition Size Choose a partition size that is between the	ne maximum and minimum sizes.
Maxium disk space in megabytes (MB): Minimum disk space in MB: <u>P</u> artition size in MB:	2861487 8 1 2851487 -
	< Back Next > Cancel

Assign the drive letter or path you want to create, than click Next>.

New P	artition Wizard	×
As	sign Drive Letter or Path For easier access, you can assign a drive letter or drive path to your partition.	
1	Assign the following drive letter: F	
	Mount in the following empty NTFS folder: Browse	
	C Do not assign a drive letter or drive path	
	2	
		Cancel

Click Format this partition with the following settings and Perform a quick format, setup the File system, Allocation unit size, Volume label, than click Next>.

Choo	ose whether you want to form	nat this partition, and if so, what settings you wan	t to use.
C	Do not format this partition	n	
1	Format this partition with the	he following settings:	
ſ	<u>F</u> ile system:	NTFS	
3	Allocation unit size:	Default	
	<u>V</u> olume label:	New Volume	
2	Perform a quick form	nat	
-	Enable file and folde	er compression	

lew Partition Wizard		
	Completing the New Partition Wizard You have successfully completed the New Partition Wizard. You selected the following settings: Partition type: Primary partition Disk selected: Disk 1 Partition type: Primary partition	
	To close this wizard, click Finish.	
	< Back Finish Cance	el

When the **New Partition Wizard** has completed, click **Finish**.

The status of the newly created partition in the Disk Management window should change to Formatting and the percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When complete, the status will change to "Healthy" and the name and drive letter will be updated. Once the disk reports Healthy, it appears in the listing in System Listing section with all of its pertinent information as well.

📮 Computer Management					
Eile Action View Window Help					_B×
	ê 🔍 😼				
Scomputer Management (Local)	Volume	Layout	Туре	File System	Status
🖻 🌇 System Tools	system (C:)	Partition	Basic	NTFS	Healthy (System)
Event Viewer	💷 backup (D:)	Partition	Basic	NTFS	Healthy
Shared Folders	New Volume (F:) Partition	Basic	NTFS	Healthy
E Second Users and Groups	A1014008A (E	:) Partition	Basic	CDFS	Healthy
Performance Logs and Alerts Performance Logs and Alerts				1	N
	<u> </u>			1	<u></u>
🗄 😭 Removable Storage	@Disk 0				
- Brisk Defragmenter	Basic	system (C:)	ba	ckup (D:)	
🖓 Disk Management	74.52 GB	14.75 GB NTFS	59	77 GB NTFS	
🗄 😼 Services and Applications	Online	Healthy (System)) He	althy	
	@Disk 1				
	Basic	New Volume (F:)		
	2794.42 GB	2794.42 GB NTFS	5//////		
	Online	Healthy	(//////		
	PCD-ROM 0				
	DVD	NA1014008A	(E:)		
	163 MB	163 MB CDFS			
	Unline	Healthy			
					4
	Primary partition	Extended partiti	ion 📕 Logi	cal drive	

Repeat the above procedure as needed for any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be visible and properly named. The new disks are available for use.

💈 My Computer	
<u>File Edit View Favorites Tools H</u> elp	
🔇 Back 👻 🕤 👻 🍠 🔎 Search 🌔 Folders 🛛 😰 🏂 🗙 🍤 🛄	÷
Address 😼 My Computer	💌 🔁 Go
Hard Disk Drives	
system (C:) Solution (D:)	
Devices with Removable Storage	
31/2 Floppy (A:) NA1014008A (E:)	

3.6 INSTALLING ON WINDOWS VISTA (32/64-BIT)

3.6.1 INSTALLING SATA RAID HOST BUS ADAPTER

Follow the descriptions below, and step by step to complete the setup.

Insert the Setup and Installation Repository CD in the CD-ROM drive. When start the Windows O/S, new hardware will be found; Select **Locat and install driver software** (recommended).



Insert the disc that came with your RAID Controller, than click Next.



When the installation has completed, click Close.



3.6.2 INSTALLING SATARAID5 UTILITY

Follow the descriptions below, and step by step to complete the installation.

Open the **Setup and Installation Repository CD** and select the **SATARAID5 Array Manager** software from the Utility folder.

Date modif... Location

releasenote Text Document 530 bytes ~

Double-click the utility file.

SIB132R	5 • Windov	vs 🕨 32bits		*• Search	_	_
🎍 Organize 👻 🚆 View	s 🔻 🚯 B	um to disc				(
Favorite Links	Name	Size	Туре	Date modif	Location	
Documents	Files Curr	ently on the D	isc (2)			
Pictures		3132-W-B2-R	Iller Dackage	release	enote	
Music	Jer'	16.0 MB		530 by	tes	
Recently Changed	- united and the second s					
9 Searches						
Public						
olders	-					
folders ^						
Folders	R	Date modifier	d: 12/12/2006 10	:16 AM		
olders	R Aller Package	Date modifier Siz	d: 12/12/2006 10 e: 16.0 MB d: 12/12/2006 10	:16 AM		
olders	R Aller Package	Date modifie Siz Date creater	d: 12/12/2006 10 e: 16.0 MB d: 12/12/2006 10	:16 AM :16 AM		
iolders	R Aller Package	Date modifie Siz Date created	d: 12/12/2006 10 e: 16.0 MB d: 12/12/2006 10	:16 AM :16 AM		A
iolders	R aller Package 64-bit:	Date modifie Siz Date created	d: 12/12/2006 10 e: 16.0 MB d: 12/12/2006 10	:16 AM :16 AM		A
iolders A 3132-W-132-1 Windows Insta Utility for Windows	R aller Package s 64-bit:	Date modifie Siz Date created	d: 12/12/2006 10 e: 16.0 MB d: 12/12/2006 10	:16 AM :16 AM		
Folders A 3132-W-132- Windows Inste Utility for Windows	R aller Package 8 64-bit:	Date modifier Siz Date creater	d: 12/12/2006 10 e: 16.0 MB d: 12/12/2006 10	:16 AM :16 AM		

Туре

Date modified: 12/12/2006 10:16 AM Size: 16.1 MB Date created: 12/12/2006 10:16 AM

Name

^ 3132-W-A64-R

Windows Installer Package

Favorite Links

Documents

Pictures
 Music
 Recently Changed
 Searches
 Public

Folders

1

Size

Files Currently on the Disc (2)

3132-W-A64-R Windows Installer Package 16.1 MB Click <u>Next></u> to begin setup.



Select I Agree, than click Next>.

븅 3132-W-I32-R SATARAI	D5	
License Agreeme	ent	
Please take a moment to rea Agree", then "Next". Otherw	d the license agreement now. If you a ise click "Cancel".	ccept the terms below, click "I
SOF	Silicon Image, Inc. TWARE LICENSE AGREI	EMENT
PLEASE READ T CAREFULLY BE USING THE SOF DOCUMENTATI	HE FOLLOWING TERMS FORE DOWNLOADING, I FWARE OR ANY ACCOM ON (COLLECTIVELY, TH	AND CONDITIONS NSTALLING OR PANYING E "SOFTWARE").
THE TERMS AND	O CONDITIONS OF THIS	SOFTWARE -
🔘 I Do Not Agree	1 💿 I Agree	
	Cancel	< Back Next > 🔪

Select Place shortcut on Desktop, than click <u>Next></u> to create a shortcut on the desktop.

岗 3132-W-132-R SATARAID5 Do you want to add a si	р?	
Place shortcut on Desktop		
	Cancel < Back	Next > 2

Click Next> to use the default installation folder.



Click **Next>** to begin the installation.

)岗 3132-W-I32-R SATARAID5	
Confirm Installation	()
The installer is ready to install 3132-W-I32-R SATARAID5 on your computer.	
Click "Next" to start the installation.	
Lancel	

When SATARAID5 installation has completed, click **Close** to exit.



Select I <u>accept the terms in the license agreement</u>, than click <u>Next></u> to begin the Java platform installation.



Select **Typical**, than click **Next>**.

岁 J2SE Runtim	e Environment 5.0 Update 5 - Setup Type	X
Setup Type Choose the	setup type that best suits your needs.	& <u>Sun</u>
Please selec using the Ad	t a setup type. You can change your choice of features after installation d/Remove Programs utility in the Control Panel.	n by
1 Typical	All recommended features will be installed.	
Custom	Specify the installation directory and choose which program features to install. Recommended for advanced users.	
InstallShield	< Back Next > 2	Cancel

When Java platform installation has completed, click **Finish** to exit.

😸 J2SE Runtime Environment	5.0 Update 5 - Complete
	Installation Completed
	The Install Wizard has successfully installed J2SE Runtime Environment 5.0 Update 5. Click Finish to exit the wizard.
Sun. Java	

Select Start > All Programs > Silicon Image > SATARaid5Manager to start the Array Manager software.

3.6.3 DISK DRIVE MODE SETUP

Please refer to the chapter 4.

3.6.4 ALLOCATING PARTITIONS

Before creating any partitions, RAID groups must first be created using the SATARaid5Manager utility. Once the sets have been created, allow the system to load Windows.

Right-click on My Computer icon and select Manage from the pop-up menu.

				+ +
SATARaid5				
Internet Internet Explore	er			
E-mail Windows Mail		CFI		View headlines
Welcome Cent	er	Documents		
😰 Windows Medi	a Center	Pictures		
Windows Ultim	nate Extras	Games		
Windows Medi	a Player	Search	and the second se	8 7 6 5 4
Windows Phot	o Gallery	Recent Items		and the second sec
Windows Live	Messenger Download	Computer	Open	
Windows DVD	Maker	Network	Explore Search	/
Windows Meet	ing <mark>Space</mark>	Connect To	Manage 🔪 🔪	
		Control Panel	Map Network Drive Disconnect Network Drive	
		Default Programs	Show on Desktop	
All Programs	-	Help and Support	Rename	
Start Search	٩	0	Properties	
				📑 🔂 🕩 11-22 AM
		the second se		

Select Disk Management under Storage to view the disk drives.

	3					
Computer Management (Local)	Volume	Layout Typ	e File System	Status		Actions
System Tools	📾 system (C:)	Simple Bas	ic NTFS	Healthy (System, Boot, Page Fil	le, Active, Crash Dump, Primary Partition	Disk Management
 Itask Scheduler Iterative Ite	Basic NTFS Healthy (Logical Drive) MA1014008A (E:) Simple Basic CDFS Healthy (Primary Partition)				More Actions +	
 Beliability and Performance 	•		III)	-
Device Manager	Disk 0					
 Bisk Management Bisk Services and Applications 	Basic 74.53 GB Online	system (C:) 14.75 GB NTFS Healthy (Syste	i m, <mark>Boot, Page Fi</mark>	backup (D:) 59.77 GB NTFS Healthy (Logical Drive)	9 MB Unall	
	CD-ROM 0 DVD 95 MB Online	NA1014008A 95 MB CDFS Healthy (Prim	(E:) ary Partition)			
	Unallocated E	rimary partition	Extended partitio	n 🧧 Free space 📕 Logical drive		

When Initialize Disk Wizard appears, select Disk 1 and GPT (GUID Partition Table), than click OK.

You must initialize a dis	sk befor <mark>e Logical [</mark>	Disk Manager can acce	ss it.
Disk 1			
Use the following parti	tion style for the se	lected disks:	
MBR (Master Boot	Record)		
GPT (GOID Partitio	on Table)		
Note: The GPT partition Windows. It is recomm Itanium-based compute	in style is not recog iended for disks lar ers.	gnized by all previous ve gerthan 2TB, or disks u	ersions of used on
		2	

Windows Vista system supports **GPT disk** which supports disk volume greater than 2TB.

🔚 Computer Management (Local)	Volume	Layout Type File Syste	em Status	Actions
A 🕅 System Tools	i system (C:)	Simple Basic NTFS	Healthy (System, Boot, Page File, Active, Crash Dump, Primary Partition)	Disk Management
Construction of the sector of the secto	📾 backup (D:) 🍰 NA1014008A (E	Simple Basic NTFS) Simple Basic CDFS	Healthy (Logical Drive) Healthy (Primary Partition)	More Actions
 Methods Methods Reliability and Performance 	•	Ш	4	
 Device Manager Storage Disk Management Services and Applications 	Disk 0 Basic 74.53 GB Online	system (C:) 14.75 GB NTFS Healthy (System, Boot, Pag	backup (D:) 59.77 GB NTFS Healthy (Logical Drive) 9 MB Unall	
	Disk 1 Basic 2794.42 GB Online	2794.42 GB Unallocated		
	CD-ROM 0 DVD 95 MB Online	NA1014008A (E:) 95 MB CDFS Healthy (Primary Partition)		

Right-click on the **Unallocated** partition and select **New Single Volume...** from the pop-up menu.

Computer Management File Action View Help				
Computer Management (Local) System Tools Oral Sak Scheduler Ext Sch	Volume system (C:) backup (D:) NA1014008A (E	Layout Type File System Simple Basic NTFS Simple Basic NTFS Simple Basic CDFS	Status Healthy (System, Boot, Page File, Active, Crash Dump, Primary Partition) Healthy (Logical Drive) Healthy (Primary Partition)	Actions Disk Management A More Actions
Generation of the second	Disk 0 Basic 74.53 GB Online	m system (C:) 14.75 GB NTFS Healthy (System, Boot, Page Fi	backup (D:) 59.77 GB NTFS Healthy (Logical Drive) 9 MB Unall	
	Disk 1 Basic 2794.42 GB Online	2794.42 GB Unallocated	New Simple Volume	
	DVD 95 MB Online	NA1014008A (E:) 95 MB CDFS Healthy (Primary Partition)	New Striped Volume Properties Help	
	Unallocated	Primary partition 📕 Extended partition	Free space 📕 Logical drive	

Click **Next>** to create the partition.

New Simple Volume V	Vizard 23
	Welcome to the New Simple Volume Wizard
	This wizard helps you create a simple volume on a disk.
	A simple volume can only be on a single disk.
	To continue, click Next.

Specify the partition size you want to create, than click Next>.

Specify Volume Size Choose a volume size that is betwee	een the maximum and minimum sizes.
Maximum disk space in MB: Minimum disk space in MB: Simple volume size in MB:	2861486 8 1 2861486
	< Back Next > Cancel

Assign the drive letter or path you want to create, than click Next>.

Assi	ign Drive Letter or Path For easier access, you can assign a drive letter or drive path to your partition.
1	Assign the following drive letter: F
1	Browse Do not assign a drive letter or drive path

Click Format this partition with the following settings and Perform a quick format, setup the File system, Allocation unit size, Volume label, than click Next>.

Choo	se whether you want to fom	nat this volume, and if so	, what settings you	want to use.
C 1 (0) Do not format this volume Format this volume with the	following settings:		
ſ	File system:	NTFS	•	
3	Allocation unit size:	Default	-	
L	Volume label:	New Volume		
2	Perform a quick form	at		
-	Enable file and folde	r compression		

When the New Partition Wizard has completed, click Finish.

New Simple Volume	Nizard S3
	Completing the New Simple Volume Wizard
	You have successfully completed the New Simple Volume Wizard.
	You selected the following settings:
	Volume type: Simple Volume Disk selected: Disk 1 Volume size: 2861486 MB Drive letter or path: F: File system: NTFS Allocation unit size: Default Volume label: New Volume Duick format: Yes
	To close this wizard, click Finish.
	< Back Finish Cancel

The status of the newly created partition in the Disk Management window should change to Formatting and the percentage complete will be displayed. Depending upon the size of the partition, the format process may take several minutes. When complete, the status will change to "Healthy" and the name and drive letter will be updated. Once the disk reports Healthy, it appears in the listing in System Listing section with all of its pertinent information as well.

🚇 Computer Management			
File Action View Help	1		
🛃 Computer Management (Local)	Volume	Layout Type File System Status	Actions
System Tools	📾 system (C:)	Simple Basic NTFS Healthy (System, Boot, Page File, Active, Crash Dump, Primary Partitio	n) Disk Management 🔺
D I ask Scheduler D III Event Viewer S I Shared Folders M Local Users and Groups	backup (D:)	Simple Basic NTFS Healthy (Logical Drive)) Simple Basic NTFS Healthy (Primary Partition)) Simple Basic CDFS Healthy (Primary Partition)	More Actions
 Device Manager Storage Disk Management Services and Applications 	Disk 0 Basic 74.53 GB Online	backup (D:) 14.75 GB NTFS Healthy (System, Boot, Page Fi	
	Basic 2794.42 GB Online	New Volume (F:) 2794.42 GB NTFS Healthy (Primary Partition)	-
	CD-ROM 0 DVD 95 MB Online	NA1014008A (E:) 95 MB CDFS Healthy (Primary Partition)	
	Unallocated	rimary partition 📕 Extended partition 📕 Free space 📕 Logical drive	

Repeat the above procedure as needed for any other partitions. Close the Data Management window by clicking on the small boxed "X" in the top right corner of the window. Click on the "My Computer" icon on the Desktop. The new drives will be visible and properly named. The new disks are available for use.



4 SATARAID5 ARRAY MANAGER

4.1 OVERVIEW

The SATARAID5 Array Manager is the Graphical User Interfaces (GUI) which allows you to create and manage RAID volumes. The Manager initially shows two windows as seen below.

Controller 0 - Sil3132r5 RAID 0 (RG0)	Channel0	Channel1		
Controllier 1 - Sil3132r5	ID 0 38.34 GB Availabl	e		
	38.34 GB Availabl	e Empty		
	ID 1 38.34 GB Availabl	e		
RAID Groups Window	38,34 GB Availabl	e Emply	Device Configuration	
	ID 2 38.34 GB Availabl	e	Window	
	38.34 GB Availabl	e Empty		
	ID 3 38.34 GB Availabi	e		
	38.34 GB Availab	e Empty		
	ID 4			
	Empty	Empty		

The RAID Groups window identifies SATA host adapters and configured RAID groups. For systems with more than one Silicon Image Host Bus Adapter installed, you can switch between cards by selecting the desired card in the RAID Groups Window.

When a controller is selected, the RAID Groups currently defined on that controller are also shown in the RAID Groups Window. Selecting a specific RAID Group will highlight the segments associated with that volume in the Device Configuration Window.

The Device Configuration window identifies all physical drives and their partitions.

Throughout the Manager, different colors are used to indicate the status of the components. The meanings of the colors are:

COLOR	STATUS
Green	Good. The component and all subcomponents are okay.
Yellow	Warning. This component or at least one subcomponent has become degraded and requires service.
Red	Failed. This component or at least one subcomponent has failed.
Grey	Unused.

4.2 CREATING RAID GROUPS

To begin creating a new RAID Group, select "Create RAID Group" from the RAID Group menu or right click on a controller in the RAID Groups window and select "Create RAID Group" from the pop-up menu; you can create more than one RAID volume, but **five disk drives is the limitation for each RAID volume**.

Note: The term "right-click" refers to using the secondary button on your mouse to perform the indicated operation. On a Windows system, use the mouse button that you have defined to be the secondary button (by default, that button is on the right side of the mouse, unless you have reconfigured the primary and secondary mouse buttons using Control Panel > Mouse). On a Macintosh system, press and hold the Command (Apple) key and click the mouse.

4.2.1 CONTIGUOUS RAID GROUPS

Contiguous RAID Groups allow the user to select a segment of disk drive or a disk drive. Select the disk and enter the desired values and press Create to create the RAID Group (Example below).

Paramet	ters			⊢Param	eters			
RAID G	roup Label:	Single		RAID	RAID Group Label:		Single	
RAID G	roup:	0	~	RAID	Group:	0		
Configu	iration:	Contiguous 💌		Config	Configuration:		Contiguous 💌	
Capacit	y:	MAX		Capacity:		MAX		
Chunk	Bize:	8 KB	~	Chun	< Size:	8 KB	~	
Rebuild	l Priority:	10	~	Rebui	ld Priority:	10	*	
Path ID	Target ID	Capacity	Starting LBN	Path ID	Target ID	Capacity	Starting LBN	
0	0	76.69 GB	00000000	0	0	76.69 GB	0000000	
0	1	76.69 GB	00000000	0	1	76.69 GB	00000000	
0	2	76.69 GB	00000000	0	2	76.69 GB	00000000	
	3	76.69 GB	00000000	0	3	76.69 GB	00000000	

4.2.2 CONCATENATED RAID GROUPS

Concatenated RAID Groups allow the user to select different sized segments for each member of the volume. For Concatenated volumes only, a dialog box will appear allowing the user to select the individual segment sizes from each disk. Enter the desired values and press Create to create the RAID Group (Example below).

Create RAID Group		3	Create RAID Group						
Parameters			Parameters		1				
RAID Group Label:	Combine		RAID Group Label:	Combine		Specify RA	D Group Ca	pacity	
RAID Group:	0		RAID Group:	0	~	opeeny to	ib aroup co	ipacity	
Configuration:	Concatenated 💌		Configuration:	Concatenated	~	Segmer Path ID	t Target ID	Capacity	×.
Capacity:	1 GB		Capacity:	1 GB	~	0	0	76.69 GB	~
Chunk Size:	8 KB 💙		Chunk Size:	8 KB	<u>×</u>	0	1	76.69 GB	~
Rebuild Priority:	10		Rebuild Priority:	10	×	0	2	76.69 GB	~
Path ID Target ID	Capacity Starting LBN	Ш	Path ID Target ID	Capacity Starti	ng LBN	0	3	76.69 GB	~
0 0 0 1 0 2 0 3	76.69 GB 00000000 76.69 GB 00000000 76.69 GB 00000000 76.69 GB 00000000 76.69 GB 00000000		0 0 0 1 0 2 0 3	76.69 GB 00000 76.69 GB 00000 76.69 GB 00000 76.69 GB 00000	1000 1000 1000 1000	RAID Gr	oup Total Capaci	ty: 306.7 GB	
Next	Close		Next	Close			Create	Cancel	

4.2.3 STRIPED RAID GROUPS

Striped RAID Groups allow the user to select minimum of 2 or more disks for each member of the volume. Enter the desired values and press Create to create the RAID Group (Example below).

Paramet	ers			Parame	ters		
RAID G	roup Label:	RAID_	RAID_0		RAID Group Label:		0
RAID G	roup:	0	~	RAID G	roup:	0	~
Configuration:		Striped	Striped 💌		uration:	Striped	~
Capacit	у:	MAX	~	Capaci	ty:	MAX	~
Chunk Size:		32 KB		Chunk	Size:	32 KB	~
Rebuild	l Priority:	10	~	Rebuild	d Priority:	10	*
Path ID	Target ID	Capacity	Starting LBN	Path ID	Target ID	Capacity	Starting LBN
0	0	76.69 GB	00000000	0		76.69 GB	00000000
0	1	76.69 GB	00000000	0		76.69 GB	00000000
0	2	76.69 GB	00000000	0		76.69 GB	00000000
	13	76.69 GB	00000000	0		76.69 GB	00000000

4.2.4 MIRRORED RAID GROUPS

Mirrored RAID Groups allow the user to select 2 disks for each member of the volume. Enter the desired values and press Create to create the RAID Group (Example below).

Create RAID Group 🛛 🛛		
neters		
Group Lab	el: RA	ID_1
Group:	0	~
iguration:	Mirr	ored 💌
acity:	MAX	 Image: Image: Ima
nk Size:	8 K	B 🖌
uild Priority:	10	~
:k Polnung)n (Quick R)ff (Best I/O	estore) Perf)) Return Dirty Data) Offline Raid Grp
D Target	ID Capaci	ity Starting LBN
0	76.69 0	B 0000000
	76.69 0	B 00000000
1		3B 00000000
0	76.69 C	B 00000000 B 00000000 B 00000000

4.2.5 MIRRORED STRIPED RAID GROUPS

Mirrored Striped RAID Groups allow the user to select minimum of 4 disks for each member of the volume. Enter the desired values and press Create to create the RAID Group (Example below).

reate RAID Group		Create RAID Group		
Parameters		Parameters		
RAID Group Label:	RAID_10	RAID Group Label:	RAID_10	
RAID Group:	0	RAID Group:	0	
Configuration:	Mirrored Striped 💌	Configuration:	Mirrored Striped 💌	
Capacity:	MAX	Capacity:	MAX	
Chunk Size:	32 KB	Chunk Size:	32 KB	
Rebuild Priority:	10	Rebuild Priority:	10	
 On (Quick Resto Off (Best I/O Perf 	e) Return Dirty Data Offline Raid Grp	On (Quick Restore) Off (Best I/O Perf)	Return Dirty Data Offline Raid Grp	
Path ID Target ID	Capacity Starting LBN	Path ID Target ID	Capacity Starting LBN	
0 0	76.69 GB 00000000	0 0 7	6.69 GB 00000000	
0 1	76.69 GB 0000000		76.69 GB 00000000	
0 2	76.69 GB 0000000	0 2 7	76.69 GB 00000000	
Create	Close	Create	Close	

4.2.6 PARITY RAID GROUPS

Parity RAID Groups allow the user to select minimum of 3 or more disks for each member of the volume. Enter the desired values and press Create to create the RAID Group (Example below).

Create RAID Group 🛛 🛛			Cre	Create RAID Group			X	
Paramet	ers			Г	Paramet	ers		
RAID G	roup Label:	RAID_	5		RAID Group Label:		RAID_5	
RAID G	roup:	0	~		RAID Gr	oup:	0	~
Configu	iration:	Parity R	AID 🔽		Configu	ration:	Parity RAID	~
Capacit	y:	MAX	~		Capacity:		MAX	~
Chunk	Bize:	32 KB	~		Chunk 8	Gize:	32 KB	~
Rebuild	Rebuild Priority: 10			Rebuild	Priority:	10	~	
On (Quick Restore) Off (Best I/O Perf) Off (Best I/O Perf)			⊙ On ○ Off	(Quick Restol (Best I/O Perf)	re) • Return Dirty • Offline Raid	r Data I Grp		
Path ID	Target ID	Capacity	Starting LBN	Ē	Path ID	Target ID	Capacity Startin	LBN
0	0	76.69 GB	00000000)	0	76.69 GB 000000	100
0	1	76.69 GB	00000000				76.69 GB 000000	00
0	2	76.69 GB	00000000)	2	76.69 GB 000000	100
0	3	76.69 GB	0000000	_(1	3	76.69 GB 000000	00
	Create	Clos	3			Create	Close	

4.2.7 RAID GROUPS OVERVIEW

RAID Groups allow Enter values in all fields and click Create to create the RAID Group.

FIELD	DEFINITION
RAID Group Label	Enter an identifiable name for the RAID group. This value can be any string (up to 8 characters including blank spaces) to help users identify this volume.
RAID Group	Select a Group ID from the available ID list. The maximum number of RAID Groups per controller is 8, so Group ID can be any number between 0 and 7, inclusive.
Configuration	Select which RAID level is to be used to configure these members:
	Contiguous (for virtual disk).
	 Concatenated (for multiple concatenated segments).
	Striped (for RAID 0)
	Mirrored (for RAID 1)
	Mirrored Striped (for RAID 10)
	Parity RAID (for RAID 5)
Capacity	Select a value to define the total usable capacity of the RAID Group or manually enter the volume size in gigabytes (GB). Selecting MAX will create the largest RAID set possible with the drive(s) selected.
Chunk Size	Select a value to define the chunk size (stripe size) for performance tuning. In general, large stripe sizes are best for large files that are accessed sequentially (for example, media streaming files) and smaller sizes are better for randomly accessed data like databases. This parameter is not used for Contiguous (JBOD), Concatenated, and Mirrored configurations.
Rebuild Priority	Select a value to identify how quickly the controller should rebuild data on a disk after a hardware failure. A value of 1 is the lowest priority and will take the longest to rebuild. A value of 10 is the highest priority and will rebuild the fastest, but may require more CPU resources, which might affect the computer's performance. This parameter is not used for Contiguous (JBOD), Concatenated, and Striped configurations.
Check Pointing	Click the On or Off button to enable or disable the Check Pointing feature. When Check Pointing is enabled, restoring data is very fast after an unexpected power loss, although normal performance may be slightly reduced. When Check Pointing is disabled, normal performance is improved, but restores can take a long time to complete. This selection is only available when the selected RAID configuration is Mirrored, Mirrored Striped or Parity RAID, and the "Advanced RAID Features" checkbox in the Configuration/Advanced Options dialog is checked.
Parity	Click the On or Off button to enable or disable the ability to return "dirty" data after an unexpected power loss and all of the data could not be written to disk, rather than taking the volume off-line. This selection is only available when the selected RAID configuration is Parity RAID and the "Advanced RAID Features" checkbox in the Configuration/Advanced Options dialog is checked.
Devices	Select the RAID member devices from the available device segment grid. Up to five members can be selected for Contiguous, Concatenated, Mirrored, Striped or Parity RAID modes (although Mirrored RAID Groups will typically contain only two members). Exactly four members must be selected for Mirrored Striped mode.

RAID Level	Min # of Disks
0	2
1	2
5	3∗
10	4
Contiguous	1
Concatenated	1

Once all parameters have been selected, select "Create" to create the RAID Group. When finished, press Cancel to exit the Create RAID Group Dialog.

4.3 ADDITIONAL MENU COMMANDS

🚳 SATARAID5 (Array Manager)			
File Device RAID Group Window Leg	acy Support Help		
Controller 0 - Sil3132r5	Channel0 ID 0	Channel1	
RAID Groups Window	Empty	Empty	Device Configuration Window
8il3132r5	Empty	Empty	Link Status: Up

The Main menu commands are shown below

File	Device	RAID Group	Window	Legacy Support	Help
Configuration	Create Spare	Create RAID Group	Task Manager	Create Legacy RAID Group	Help Topics
Exit	Delete Spare	Rebuild RAID Group	Event Log	Rebuild Legacy RAID Group	About
	Delete Member	Delete RAID Group	Resources	Delete Legacy RAID Group	
	Delete Orphan	Bring RAID Group Online		Convert Legacy RAID Group	
	Make Pass-Thru	RAID Group Summary		Bring Legacy RAID Group Online	
	Device Summary			Create Legacy Spare	
				Delete Legacy Spare	

Convert Legacy Spare

The commands are documented on the pages that follow.

4.3.1 CONFIGURATION

SATARAID5 configuration options include customization of the settings for **Log File**, **Popup**, and **Advanced Options**. This command displays a dialog box to let user set different configurations for SATARAID5 with the following three tabs:

Log File Tab

The Log File tab allows you to define the location and name of the log file. The log file is used to store event information received from all Silicon Image RAID drivers. The log file is a text file and can be viewed with any text viewer (such as "Notepad" on Windows platforms) or with the Event Log window of the SATARAID5 Manager. Use the Log File tab to set the location and the desired filename for the log file.

Configuration Screen	×
Log File Popup Advanced Options	
Log File Information The log file is used to preserve events received from the RAID driver. Contents of the log file can be viewed via the 'Event Log' option of the 'Window' menu. The log file generation can be controlled via the radio buttons in the 'Log File Generation' section of this screen. The file name and location can be set in the 'Log File Specification' section of this screen. Contents of the log file can be purged into another file or permanently deleted via the 'Purge' button in the 'Log File Specification' section of this screen.	
Log File Generation O Disabled S Enabled	
Log File Specification	
Location: Program Files\Silicon Image\SATARAID5 Purge	
<u>O</u> K <u>C</u> ancel	

To specify whether the Log File is generated, click on either the **Disabled** or **Enabled** radio button. If Log File generation is enabled, you can click the **Browse** button to specify the file name and location of the Log File. You can also use the **Purge** button to delete the contents of the Log File.

Popup Tab

SATARAID5 can be configured to notify the user of events using messages in popup windows. Use the slider control to set the event level for popups to occur:

- Information Level - The following events will trigger a popup window:

- Informational Warnings
- Errors
- Warning Level The following events will trigger a popup window: Warnings Errors
- Error Level The following events will trigger a popup window: Errors
- Disable All No events will trigger a popup window.

Configuration Screen		×
Log File Popup Advance	d Options	
Popup Window Informatio	on	
Popup window is a visi The popup window car event levels.	ual notification that an event has occurred. h be disabled or set to pop up for only certain	
Event Level Control		
- Informational	Move the slider to set notification level	
– Warning	Error Event Level	
Error	The popup window will be displayed when an ERROR event is generated.	
- Disabled		
	<u>O</u> K <u>C</u> ance	

Advanced Options

The Advanced Options tab is used to control advanced features of the RAID driver. By default, all these advanced options are disabled.

Configuration Screen		×
Log File Popup Advanced Options		
CAdvanced Options Information		
This configuration panel allows use of the RAID driver. Please consult m option.	ers to control advanced feature nanual for information about ea	s ach
WARNING: Incorrect usage of some	e options could result in data lo	oss.
Advanced Options Specification		
🔽 Legacy (Bootable) Support	🔽 Delete Member Suppo	rt
Advanced RAID Features	Resources Info Suppo	irt
	ок са	
		ancel

The Advanced Options tab allows you to enable the following advanced features.

FEATURE	EXPLANATION
Legacy (Bootable) Support	When this feature is selected, Legacy Support menu will be available in the menu bar. Enables the Legacy Support menu to support RAID functions for legacy RAID groups (available on Windows platforms only). See Legacy Support menu options.
Delete Member Support	When this feature is selected, Delete Member menu item will be available under the Device menu. Enables the Delete Member option on the Device menu to delete a member from RAID 1 (Mirrored), RAID 5 (Parity RAID), and RAID 10 (Striped and Mirrored) groups. See Delete Member menu option.
Advanced RAID Features	When this feature is selected and user selects to create RAID group, if the RAID group to be created is fault tolerance group (RAID 1, RAID 5, or RAID 10), user will be able to select Improper Shutdown Policy in the Create RAID Group dialog box. Enables the selection of an Improper Shutdown Policy (including Check-Pointing and Dirty Parity handling) in the Create RAID Group dialog box when the selected RAID Group type is a fault-tolerant configuration (Mirrored, Mirrored/Striped and Parity RAID). This feature is not supported for Legacy RAID groups.
Resources Info Support	When this feature is selected, Resources menu item will be available under the Window menu. Enables the Resources option on the Window menu for debugging purposes. See Resources menu option.
4.3.2 EXIT

This command terminates the SATARAID5 program.

4.3.3 CREATE SPARE

This command displays a dialog box to let user create spare drive, user needs to select the following parameters:

PARAMETER	DESCRIPTION
Spare Type	Choose one of:
	 Global - If the spare drive is for all RAID groups in the system.
	 Dedicated - If the spare drive is dedicated to the specified RAID group.
Capacity	If you select Global for the Spare Type, current options from a list of capacity are from 128 MB to 100 GB, HALF and MAX.
RAID Group	If you select Dedicated for the Spare Type, please selected RAID group to which this spare drive is dedicated.
Device Segment	Select one device segment from the available spare type only.

rease opr			
Parame	ters		
Spare 7	Type: Glob	al	~
Capaci	ty: MAX		~
Path ID	Target ID	Capacity	Starting LBN
0	2	76.69 GB	00000000
0	3	76.69 GB	00000000
	Create	e Clos	e
eate Spa	Create) Clos	e
<mark>eate Spa</mark> -Paramet	Create re ers) Clos	e
<mark>eate Spa</mark> Paramet Spare T	Create re ers ype: Dedi) Clos	e) 2
<mark>eate Spa</mark> Paramet Spare T RAID Gr	Create re ers ype: Dedi roup: 0) Clos	e
<mark>eate Spa</mark> Paramet Spare T RAID Gr Path ID	Create re ers ype: Dedi roup: 0 Target ID	e) Clos cated Capacity	e
eate Spa Paramet Spare T RAID Gr Path ID 0	Create re ers ype: Dedi roup: 0 Target ID 2	Clos cated Capacity 76.69 GB	e

Create

Close

4.3.4 DELETE SPARE

This menu option displays a dialog box to select (highlight) one or more spare drives to delete.

Delete Spa	ire			
8	Select Spare(s):			
Device	Туре	RAID Group	Starting LBN	Capacity
2	Dedicated Spare	0	00000000	76.69 GB
		Delete Ca	ancel	

4.3.5 DELETE MEMBER

This menu option displays a dialog box to select (highlight) RAID group members to delete. Because RAID 0 is not fault tolerant, RAID 0 members are not shown in the list.

Note: Deleting members will demote the RAID group to a non-fault-tolerant RAID group.

mber(s) to Del RAID Group 0	ete: Member	Canacity	
RAID Group	Member	Canacity	
0		Capacity	Starting LBN
	0	76.69 GB	00000000
0	1	76.69 GB	00000000
Dele	ete C	ancel	
	Dele	Delete	Delete Cancel

4.3.6 DELETE ORPHAN

This menu option displays a dialog box to select (highlight) orphan segments to delete. An orphan segment is part of a RAID group that cannot access other segments within the same RAID group. When a member of a RAID group fails in a severe manner (such as a loss of power or a complete hard disk failure), it becomes an orphan.

This command displays the Delete Orphan Segment window to show all orphan segments and allow user to delete selected orphan segments.

D	elete Orp	han Segme	nt	×
	Sele	ct Orphan(s)	:	
	Path ID	Target ID	Capacity	Starting LBN
	0	0	76.69 GB	00000000
		Delete	Canc	el

4.3.7 MAKE PASS-THRU

This menu option is not available in this product.

4.3.8 DEVICE SUMMARY

This command displays the Segment Summary window to show all physical devices' segments.

💱 Device Summary							
File Opti	ons						
Path ID	Target ID	Status	Capacity	Model	Version		
0	0	Healthy	160834432	HDS728080PLA380	PF2OA60A		
0	1	Healthy	160834432	HDS728080PLA380	PF2OA60A		
0	2	Healthy	160834432	HDS728080PLA380	PF2OA60A		
0	3	Healthy	160834432	HDS728080PLA380	PF2OA60A		
0	4	Empty	Unknown	Unknown	Unknown		
1	0	Empty	Unknown	Unknown	Unknown		
1	1	Empty	Unknown	Unknown	Unknown		
1	2	Empty	Unknown	Unknown	Unknown		
1	3	Empty	Unknown	Unknown	Unknown		
1	4	Empty	Unknown	Unknown	Unknown		
Device C	ount: 10						

The Segment Summary window has its own menu bar. All options available via the menu bar are shown below

File Options

Exit Sorting... Fields...

Exit

This command closes the Task Summary window.

Sorting

This command sorts the rows based on the selected field.

Sort		
Sort items by		
Device	~	 Ascending Descending
		<u>DK</u> <u>Cancel</u>

Fields

This command displays a dialog box to let user choose which fields will be shown in the Segment Summary window.

Serial Number Remove Capacity
Remove Status Capacity
Model Version

4.3.9 CREATE RAID GROUP

This command displays a dialog box to let user verify a raid type than display Create RAID Group dialog box.



RAID G	roup Label:	Volum	Volume A		
RAID G	roup:	0	~		
Configu	iration:	Contiguous			
Capacit	ly:	1 GB	~		
Chunk Size:		8 KB	×		
Rebuild Priority:		10	~		
Path ID	Target ID	Canacity	Starting LBN		
D	0	76.69 GB	00000000		
0	1	76.69 GB	00000000		
0	2	76.69 GB	00000000		
0	3	76.69 GB	00000000		

4.3.10 REBUILD RAID GROUP

This command displays a dialog box to let user choose a replacement segment to rebuild a non-fault tolerant RAID group.

Rebuild RAID G	roup							10
Select a Me	mber to Re	build:		Select	a Replacen	nent Segment:		
RAID Group	Member	Status	Capacity	Path ID	Target ID	Status	Capacity	Starting LBN
0	0	Failed	76.69 GB	0	0	Available	76.69 GB	00000000
			1 C C C C C C C C C C C C C C C C C C C	0	2	Available	76.69 GB	00000000
				0	3	Available	76.69 GB	00000000
								<i>C.</i>
				1				
			Reh	uild Ca	ncel			

4.3.11 DELETE RAID GROUP

This command displays a dialog box to let user choose RAID groups to delete.

RAID Group	Configuration	Status
)	Mirrored	Online
1	Mirrored Striped	Online
2	Parity RAID	Online

4.3.12 BRING RAID GROUP ONLINE

This menu option is not available in this product.

4.3.13 RAID GROUP SUMMARY

This command displays a dialog box to show all RAID groups' group ID, configuration, and status.

🥞 RAID Grou	up Summary		(
File Options								
RAID Group	Label	Configuration	Status	Capa				
0	RAID_1	Mirrored	Online	20.0 GB				
1	RAID_10	Mirrored Striped	Online	40.0 GB				
2	RAID_5	Parity RAID	Online	40.0 GB				
RAID Group C	ount: 3							

The RAID Group Summary window has its own menu bar. All options available via the menu bar are shown below.

File	Options
Exit	Sorting
	Fields

Exit

This command closes the RAID Group Summary window.

Sorting

This command displays a dialog box to let user choose up to 3 items to sort RAID group items in the RAID Group list.

rt	
Sort items by	
RAID Group	O Ascending O Descending
	<u>OK</u> <u>C</u> ance

Fields

This command displays a dialog box to let user choose which fields will be shown in the RAID Group Summary window.

vailable Fields:		Displayed Fields:
ChunkSize Member Count Metadata Format Rebuild Priority	Add Remove	RAID Group Label Configuration Status Capacity

4.3.14 TASK MANAGER

This command displays the Task Manager window. The Task Manager window lists all RAID and disk management tasks that have been started and/or done. This window provides user the ability to schedule any RAID and disk management operations including RAID group creation, rebuild, and test.

File O	ptions Task							
Task	Operation	Parameters	Status	Priority	Progress	Start Time	End Time	Remaining
6	Rebuild RAID Group	Raid Group 0	Active	10	1 %	12/21/05 10:16:43 AM		02:01:54
7	Rebuild RAID Group	Raid Group 1	Active	10	2 %	12/21/05 10:16:46 AM		01:34:46
8	Rebuild RAID Group	Raid Group 2	Active	10	1 %	12/21/05 10:16:48 AM		02:09:20
4	Create RAID Group	Raid Group 2	Canceled	10	1	12/21/05 9:18:50 AM	12/21/05 9:19:41 AM	
3	Create RAID Group	Raid Group 1	Completed	10		12/21/05 9:17:56 AM	12/21/05 9:17:56 AM	
2	Create RAID Group	Raid Group 0	Completed	10		12/21/05 9:17:33 AM	12/21/05 9:17:34 AM	
1	Delete RAID Group	Raid Group 0	Completed	0	1	12/21/05 9:16:26 AM	12/21/05 9:16:26 AM	
0	Create RAID Group	Raid Group 0	Completed	10		12/21/05 9:10:21 AM	12/21/05 9:10:21 AM	
5	Create RAID Group	Raid Group 2	Completed	10		12/21/05 9:20:07 AM	12/21/05 10:02:59 AM	

The Task Manager window has it's own menu bar. All options available via the menu bar are shown below

File	Options	Task
Open	Sorting	Modify
Save	Fields	Suspend
Print		Resume
Exit		Cancel
		Delete

Open

This option will be available in future revisions.

Save

This option will be available in future revisions.

Print

This option will be available in future revisions.

Exit

This command closes the Task Summary window.

Sorting

This command displays a dialog box to let user choose up to 3 items to sort task items in the task list.

ort Items by	
End Time	Ascending O Ascending O Descending

Fields

This command displays a dialog box to let user choose which fields will be shown in the task list.



Modify

This command allows user to modify parameters of the selected task items. The following is an example of changing rebuild priority for a rebuild task.

odify Task Parameters	ers	×
Dynamic Priority:	10	~
	<u>o</u> k	<u>C</u> ancel

Suspend

This command allows user to suspend the selected task items.

Resume

This command allows user to resume the suspended task items.

Cancel

This command allows user to cancel the selected task items.



Delete

This command displays a dialog box to let user delete the selected task items from the task list in Task Summary window. The following dialog box will pop up to get confirmation from the user.



4.3.15 EVENT LOG

This command displays the Event Log window. The Event Log window displays SATA device-related events that occur while SATARAID5 is running.

🚳 Event L	og					
File Option	s		-			
EventDate	EventTime	EventSource	EventType	EventLevel	EventMessage	
12/21/05	08:53.22 AM	Controller 0 - Sil3132r5	Controller	Informational	Begin group discovery	
12/21/05	08:53.22 AM	Controller 0 - Sil3132r5	Controller	Informational	Initialization Complete	1
12/21/05	08:53.53 AM	Controller 0 - Sil3132r5	Application	Informational	Database initialized	
12/21/05	09:10.21 AM	Controller 0 - Sil3132r5	Device	Informational	Segment created, Pathld 0, TargetId 0, PBN 00000000, Capacity 09962380, Segment Count 1	
12/21/05	09:10.21 AM	Controller 0 - Sil3132r5	Device	Informational	Segment created, Pathld 0, TargetId 1, PBN 00000000, Capacity 09962380, Segment Count 1	
12/21/05	09:10.21 AM	Controller 0 - Sil3132r5	RAID	Informational	Start Create, Group 0	
12/21/05	09:10.21 AM	Controller 0 - Sil3132r5	RAID	Informational	Configure RAID Group task	
12/21/05	09:14.04 AM	Controller 0 - Sil3132r5	Device	Error	Device Removed at PathId 0, TargetId 0	
12/21/05	09:20.07 AM	Controller 0 - Sil3132r5	Device	Informational	Segment created, Pathld 0, TargetId 1, PBN 05000000, Capacity 02800000, Segment Count 3	
12/21/05	09:20.07 AM	Controller 0 - Sil3132r5	Device	Informational	Segment created, Pathld 0, TargetId 2, PBN 02800000, Capacity 02800000, Segment Count 2	~
Event Coun	+-11					

Event Count:11

The Event Log window has it's own menu bar. All options available via the menu bar are shown below

File Options Exit Sorting... Fields...

Exit

This command closes the Event Log window.

Sorting

This command displays a dialog box to let user choose up to 3 items to sort event items in the event log.

Event	Ascending
	O Descending
Then by	
EventType	Ascending
1	C Descending
Then by	
EventLevel	Ascending
	C Descending

Fields

This command displays a dialog box to let user choose which fields will be shown in the event log.

Fields		
Available Fields:	Add Remove	Displayed Fields: EventDate EventTime EventSource EventType EventLevel EventMessage
<u>O</u> K <u>Apply</u>	<u>C</u> ancel	

4.3.16 RESOURCES

This command displays the Resource Information window. This feature is for debugging purpose only.

🥞 Resourc	e Informat	ion 💶 🗖 🔀
File Display		
Resource	Current	Maximum
DSRB	2	32
QSRB	12	42
TDB	0	64
DSD	13	50
DBD	1	17
		Active

The Event Log window has it's own menu bar. All options available via the menu bar are shown below

File	Display	
Exit	Suspend	Alt+S
	Resume	Alt+R

Exit

This command closes the Resources window.

Suspend

This command is to suspend the resources informantion.

Fields

This command is to resume the resources informantion.

4.3.17 CREATE LEGACY RAID GROUP

This menu option is not available in this product.

4.3.18 HELP TOPICS

This command opens an interactive help dialog using the standard Windows help interface. This option will be available in future revisions.

4.3.19 ABOUT

This command displays a dialog box with more information about the SATARAID5 program, including the revision level.



Thank you for purchasing a quality Rosewill Product.

Please register your product at : www.rosewill.com for complete warranty information and future support for your product.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com