

Server Systems and Motherboards

Raid Configuration and

Driver installation guide

For Adaptec 7902W chip

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1. RAID Configuration

GIGABYTE server systems and motherboards that a RAID supports is comply with the following RAID solutions:

- Hardware RAID: Use dedicate hardware to control RAID array, and supposed to doing RAID 0, 1, 1+0, 5 configurations through software utility.
- Software RAID (Host RAID): Use BIOS setup and management utility complete RAID 0, 1, 1+0, Spare configurations and support Ultra 320 products.
- SATA RAID: Adaptec SATA RAID is embedded in the Intel south bridge chip, depending on the specific configure, it is support up to two SATA hard disk drives and RAID support 0, 1, JBOD configuration.

1.1 RAID Definition

RAID 0, Striping supports up to two SCSI disk drives to read and write data in parallel. Even two hard disk drives reliability the same as single disk, but offers higher performance than a single disk. If one disk fails then all data in the array is lost.

- **RAID 1, Mirroring** copy from one hard disk to second hard disk such both of them contains exactly the same data, in case of failure of one disk, the system will boot through the second disk and data is still available to use therefore.
- **RAID 1+0** is a combine with data striping and data mirroring. Take a stripe pair of disks and mirror them completely in parallel architecture. Excellent solution for RAID 10 provides fast and highly fault tolerant.

1.2 Installing hard disk drives

In general, we suggest using the same model and capacity disk drives to create RAID array.

- 1. Install the disk drives into the drive bays of the respective GIGABYTE server or motherboard.
- 2. Select cables suitable for your disk drives.
- 3. Connect power code to hard disk on each HDD.
- 4. Enable or Disable SCSI termination.

Note → Please make sure your SCSI controller support U160 or U320 SCSI device and find suitable for your SCSI disk, cable and terminator.

1.3 Setting the RAID in BIOS

Since onboard RAID controller option, please enable onboard H/W SCSI capability of the BIOS utility before you creating.

- 1) During the POST screen, please enter the BIOS setup utility.
- 2) Into Advance Menu > click Integrated Peripherals screen item.
- 3) Choose Onboard Device item > Onboard H/W SCSI [Enable].
- 4) Save your change and Exist BIOS setup.

1.4 Adaptec 7902W RAID configuration utility

Adaptec 7902W RAID controller is built-in BIOS code, even you create software RAID after detected SCSI devices that you need to start SCSI select utility by pressing "**Ctrl+A**" during the controller BIOS startup.

Adaptec H Copyright	ostRAI 2004 (D BIOS Adapted	v4.30 c, Inc. All	Right	s Reserved.		
444 Press	<ctrl< th=""><th>XA> fo</th><th>or SCSISele</th><th>ct(TM)</th><th>Utility! 🍑</th><th></th><th></th></ctrl<>	XA> fo	or SCSISele	ct(TM)	Utility! 🍑		
Device	Slot	Chn	PCI Addr	IRQ	I/0	Int 13 Support	HostRAID
AIC-7902 AIC-7902 -	00 00	A B	03 :06 :00 03 :06 :01	10 10	ACOO ,A800 A400 ,A000	Enabled Enabled	Enabled Enabled

The illustrator is an Adaptec 7902W host RAID utility; you can set SCSI capability on options window.



After into **SCSI Disk Utility** screen, you can check your SCSI hard disk drives be detected on your system, in general, a SCSI bus can support up to 15 devices and the controller connected to its 16-bit bus.

Adaptec 4	SCSISelect(TM) ► Utility v4.30
- Select SCSI Disk and	press <enter></enter>
SUCST IN HO.	SFACATE ST373453LC
SCSI ID #1:	SEAGATE ST373453LC
SCSI ID #2:	SEAGATE ST373453LC
SCSI ID #3:	SEAGATE ST373453LC
SUST IN #4:	No device
SCSI ID #6:	No device
SCSI ID #7:	Adaptec AIC-7902
SCSI ID #8:	SDR GEM318P
SCSI ID #9:	No device
SCSI ID #11:	

Return Options, choose "Configure/View SCSI Controller Settings".



Select HostRAID options and "Enabled" it.

Configuration ————————————————————————————————————	
SCSI Bus Interface Definitions SCSI Controller ID	
Additional Options	
SCSI Device Configuration Enabled ss <e< td=""><th>nter></th></e<>	nter>
Advanced Configuration Disabled ss <e HostRAIDabled</e 	nter>
<f6> - Reset to SCSI Controller Default</f6>	S

——————————————————————————————————————	
SCSI Bus Interface Definitions SCSI Controller ID7	
SCSI Controller Parity Enabled	
Additional Options	
SCSI Device Configuration Press (Enter)	
Advanced Configuration Press <enter> HostRAID Enabled</enter>	
(F6) - Reset to SCSI Controller Defaults	

Save Changes Made screen will pop-up , please click "Yes".

- Configuration
SCSI Bus Interface Definitions
SCSI Controller ID
SCSI Controller Parity Enabled
SCSI Controller Termination Enabled
Root Device Configuration - Saug Changoe Mado? - /Entons
SCSI Device Configuration Yes (Enter)
Advanced Configuration No
HostRAIDd
<f6> - Reset to SCSI Controller Defaults</f6>

Options item will become 3 selections, please pull down to

"Configure/View HostRAID Settings".



Click "**Configure/ View HostRAID settings**" icon that will allow you to check and create RAID array or Spare capability of SCSI hard disk drives.

Create	HI , Spare, Delete,	C-7902 H at s Rebuild, Ver	ilot 00, 03:06:00 ify, Bootable —		
ID	Туре	Vendor	Product	Size	Status
0 1 2 3	Hard Drive Hard Drive Hard Drive Hard Drive	SEAGATE SEAGATE SEAGATE SEAGATE	ST373453LC ST373453LC ST373453LC ST373453LC ST373453LC	73CB 73GB 73GB 73GB 73GB	Free Free Free Free

1.4.1 Create a RAID 0 (Stripe)

From the Create RAID menu, please click "RAID-0 (High Performance,

No Fault Tolerance)" that disk drives set requires for the maximum of 4 drives.

Create RAID ID Vendor Product Size 0 SEAGATE ST373453LC 73GB 1 SEAGATE ST373453LC 73GB 2 SEAGATE ST373453LC 73GB 3 SEAGATE ST373453LC 73GB Select RAID Type RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance, No Fault Tolerance) RAID-10 (Fault Tolerance, High Performance) Striping Requirements Min 2 drives, Max 4 drives.	Adaptec ∢ SCSISelect(IM) ▶ Utility v4.30 AlC-2902 A at slot 80, 83:06:00						
ID Vendor Product Size 0 SEAGATE ST373453LC 73GB 1 SEAGATE ST373453LC 73GB 2 SEAGATE ST373453LC 73GB 3 SEAGATE ST373453LC 73GB 3 SEAGATE ST373453LC 73GB 3 SEAGATE ST373453LC 73GB Select RAID Tolerance, No Fault No Fault Tolerance, No Fault RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance, No Fault Tolerance) RAID-10 (Fault Tolerance, High Performance) Striping Requirements Min 2 drives, Max 4 drives. Striping	- Create RAID						
Ø SEACATE ST373453LC 73GB 1 SEACATE ST373453LC 73GB 2 SEACATE ST373453LC 73GB 3 SEACATE ST373453LC 73GB Select RAID Type RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance) RAID-10 (Fault Tolerance, High Performance) Striping Requirements Min 2 drives, Max 4 drives.		ID	Vendor	Product	Size		
2 SEACATE ST373453LC 73CB 3 SEACATE ST373453LC 73CB Select RAID Type RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance) RAID-10 (Fault Tolerance, High Performance) Striping Requirements Min 2 drives, Max 4 drives.		Ø SEAGATE ST373453LC 73GB 1 SEAGATE ST373453LC 73GB					
Select RAID Type RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance) RAID-10 (Fault Tolerance, High Performance) Striping Requirements Min 2 drives, Max 4 drives.		2 SEAGATE ST373453LC 73GB					
Select RAID Type RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance) RAID-10 (Fault Tolerance, High Performance) Striping Requirements Min 2 drives, Max 4 drives.	3 3ENGUTE 31313433LC (360						
Striping Requirements Min 2 drives, Max 4 drives.	Select KHID Type RAID-0 (High Performance, No Fault Tolerance) RAID-1 (Fault Tolerance) RAID-10 (Fault Tolerance, High Performance)						

All required SCSI hard disk drives will appears in the **Select RAID members** screen.

0 SEAGATE ST373453LC 73GB X 1 SEAGATE ST373453LC 73GB X 2 SEAGATE ST373453LC 73GB X
3 SEAGATE ST373453LC 73GB X

Select default Strip size **64-KB** from the menu, then press **<Enter>**. (Of course, you also can select 16-KB or 32-KB by your application)

F RAID-0: Select	RA	— AIC-790 ID members	2 A at slot 00	0, 03:06:00 =		
	ID	Vendor	Product	Size		
	0 1 2 3	SEAGATE SEAGATE SEAGATE SEAGATE SEAGATE	ST373453LC ST373453LC ST373453LC ST373453LC ST373453LC	73GB 73GB 73GB 73GB	X X X X	
			Select stripe 16-KB 32-KB 64-KB	size —		

Enter 1 ~15 alphabetic or numeric characters to assign RIAD name and press <Enter> to proceed.



If you would like to set this array on bootable, please select "**Yes**" on this window and apposite, please select "**No**".

Build ARRA	Adaptec Al RAID	SCSISelect(TM) ► Utility ↔ C-7902 A at slot 00, 03:06:00 iped - 64K stripe size	4.30	
ID	Туре	Vendor Product	Size	Status
0 1	Striped (RØ) Striped (RØ)	SEAGATE ST373453LC SEAGATE ST373453LC	73GB 73GB	Building Building
23	Striped (RØ) Striped (RØ)	Do you want to make this array as bootable? Yes No	736B 736D	Building Building

The RAID-0 is complete the array propertied.

reate	, Spare,	Adaptec ◀ AIC-79 Delete, Rel	SCSISelect 902 A at s build, Ver	(IM) ▶ Uti lot 00, 03 ify, Bootal	lity v4.30 :06:00	
ID	Туре		Vendor	Product	Size	Status
0	Striped	(RØ)	ADAPTEC	12	294CB	Optinal

After configure successfully, please exit Adaptec SCSISelct Utility window and restart system.

Adapt Copyr	ec HostRf ight 2004	IID BI I Adap	lOS otec	v4 :,]	.30 Inc. All	Rights Reserve	d.				
444 I	Press <ctr< td=""><td>·L><a></td><td>) fo</td><td>or S</td><td>SCS I Se lec</td><td>t(TM) Utility!</td><td>***</td><td></td><td></td><td></td><td></td></ctr<>	·L> <a>) fo	or S	SCS I Se lec	t(TM) Utility!	***				
Slot	PCI Addr	ASIC	ID	LU	Vendor	Product	Rev	Size	Sync	Bus	Sts
00 	03 :06 :00 03 :06 :00 03 :06 :00 03 :06 :01	7902 7902 7902 7902 7902	0 1 2 3 7 8 7	0 0 0 0 0 0	ADAPTEC SEAGATE SEAGATE SEAGATE SEAGATE ADAPTEC SDR ADAPTEC	1 ST373453LC ST373453LC ST373453LC ST373453LC AIC-7902 GEM318P AIC-7902	4.30 0005 0005 0005 4.30 1 4.30	294CB 73GB 73GB 73GB 73GB	320 320 320 320 320 320	16 16 16 16 16 8 16	Opt Opt Opt Opt Opt

1.4.2 Create RAID 1 (Mirrored)

From the Create RAID menu, click **RAID-1 (Fault Tolerance)** that disk drives set requires for the maximum of 2 drives.

Ad	aptec ∢ SCSI — AIC-7982	Select(IM) ▶ Util A at slot AA A3+	ity v4.30	
- Create RAID			50.00	
ID	Vendor P	roduct	Size	
0	SEAGATE S	1373453LC 1373453LC	73CB 73CB	
2	SEAGATE S	1373453LC 1373453LC	73CB 73CB	
	S	elect RAID Type -	1300	
RAID-0 RAID-1 RAID-1	(High Perf (Fault Tole (Fault Tole (Fault Tole	ormance, No Fault erance) erance, High Perfo	Tolerance) prmance)	
	—— Mirre	oring Requirements		7
	Min 2 di	rives, Max 2 drive	95.	

All required SCSI hard disk drives will appears in the **Select RAID members** screen.

┌ RAID-1: Selec	Add t RA	aptec ∢ SC = AIC-790 ID members	SISelect(TM) ► D2 A at slot 00	Utility v4.30 , 03:06:00	
	ID	Vendor	Product	Size	
	Ø 1	SEAGATE	ST373453LC	73GB X	-
	23	SEAGATE	ST373453LC ST373453LC ST373453LC	7368 7368 7368	
				1	

Select default "**Create new RAID-1**" on RIAD-1 build option. In the **RAID-1 Build Option** item, you also can choose copy data from one hard disk to the second hard disk.

┌─ RAID-1: Select	RAI	= AIC-790 D members	2 A at slot Ø 	0,03:06:00 =		
	ID	Vendor	Product	Size		
-	0 1 2 3	SEAGATE SEAGATE SEAGATE SEAGATE SEAGATE	ST373453LC ST373453LC ST373453LC ST373453LC ST373453LC	73GB 73GB 73GB 73GB	x x	
		Cr Co Co	RAID-1 Build eate new RAID py from (0) py from (1)	Option -1 to (1) to (0)		

Enter 1 \sim 15 alphabetic or numeric characters to assign RIAD name.



If you would like to set this array on bootable, please select "**Yes**" on this window and apposite, please select "**No**".



After RAID-1 builds the array propertied completed, you can select other disk drives for Spare.

- Cr	eate	, Spare, Delete, Rel	102 A at s mild, Ver	ify, Bootable —		
	ID	Туре	Vendor	Product	Size	Status
	0 2 3	Mirrored (R1) Spare Hard Drive	ADAPTEC SEAGATE SEAGATE	343 ST373453LC ST373453LC	73GB 73GB 73GB	Optimal Optimal Free

SPARE: Set one drive on stand by should prompt for replacement of the dead one if one of the hard disk drive failing. After configure successfully, please exit Adaptec SCSISelct Utility window and restart system.

Adap Copyi	tec HostRi right 2004	AID BI 4 Adap	IOS v otec ,	v4.30 , Inc. All .	Rights Reserved.					
444]	Press <ct< td=""><td>r L><a></td><td>• for</td><td>SCSISelec</td><td>t(TM) Utility! 🕨</td><td></td><td></td><td></td><td></td><td></td></ct<>	r L> <a>	• for	SCSISelec	t(TM) Utility! 🕨					
Slot	PCI Addr	ASIC	ID L	.U Vendor	Product	Rev	Size	Sync	Bus	Sts
00 00 00 00 00 00	03:06:00 03:06:00 03:06:00 03:06:00 03:06:00 03:06:00 03:06:01	7902 7902 7902 7902 7902 7902 7902	0 0 1 2 3 7 8 4	0 ADAPTEC 0 SEACATE 0 SEACATE 0 SEACATE 0 SEACATE 0 SEACATE 0 ADAPTEC 0 SDR 0	343 ST373453LC ST373453LC ST373453LC ST373453LC ST373453LC AIC-7902 GEM318P	4.30 0005 0005 0005 4.30 1	73GB 73GB 73GB 73GB 73GB	320 320 320 320 320 320	16 16 16 16 16 8	Opt Opt Opt Spare

1.4.3 Create RAID 1+0

From the Create RAID menu, please click **RAID-10 (Fault Tolerance, High Performance)** that you want to add to create array, then press **<Enter>**.

Create RAID					
	ID	Vendor	Product	Size	
	1	SEAGATE	ST373453LC	73GB	
	2	SEAGATE	ST373453LC	73GB	
	3	IBM	IC35L146UCDY10-0	147CB	
	4	IBM	IC35L146UCDY10-0	147CB	
			- Select RAID Type	and the second s	
	RAID-0 RAID-1 RAID-10	(High Pe (Fault 1 (Fault 1	rformance, No Faul Olerance) Olerance, High Per	t Tolerance) formance)	
		- Stripin Min 4	ng/Mirroring Requir I drives, Max 4 dri	ements ——— ves.	

Select default Strip size **64-KB** from the menu, then press <Enter>. (Of course, you also can select 16-KB or 32-KB by your application)

ID	Vendor	Product	Size	
1	SEAGATE	ST373453LC	73GB	х
2	SEAGATE	ST373453LC	73GB	X
3	IBM	IC35L146UCDY10-0	147GB	X
4	IBM	IC35L146UCDY10-0	147GB	×
	F	Select stripe size 16-KB		
		32-KB		
		CA VD		

ID	Vendor	Product	Size	
1	SEAGATE	ST373453LC	73GB	х
2	SEAGATE	ST373453LC	73CB	X
3	IBM	IC35L146UCDY10-0	147CB	X
4	IBM	IC35L146UCDY10-0	147CB	x
En	ter 1 to aracters.	Assign RAID Name 15 alphabetic or n Press <enter> whe</enter>	umeric n finis	hed.

Enter 1 \sim 15 alphabetic or numeric characters to assign RIAD name.

All required SCSI hard disk drives will appears in the **Select RAID members** screen. If you would like to set this array on bootable, please select "**Yes**" on this window, whereas select "**No**".

ID	Туре	Vendor	Product	Size	Status
1	Stripe/Mirror (R1	() SEAGATE	ST373453LC	73CB	Bu i ld ing
2	Stripe/Mirror (R1	C) SEAGATE	ST373453LC	73GB	Building
	Stripe/Mirror		<i>i</i>	147CB	Building
4	Stripe/Mirror I	lo you want his array a	to make is bootable?	0 147CB	Building
		_	lac		



ID	Type	Vendor	Product	Size	Status
1	Stripe/Mirror (R10)	SEAGATE	ST373453LC	73GB	Building
2	Stripe/Mirror (R10)	SEAGATE	ST373453LC	73GB	Building
3	Stripe/Mirror (R10)	IBM	IC35L146UCBY10-0	147GB	Building
4	Stripe/Mirror (R10)	IBM	IC35L146UCDY16-0	147GB	Building
		- Create	Array? -		

The RAID-10 is completed array propertied.

Cre	eate	, Spare, Delete	IC-796 , Rebu	d2 A at s tild, Ver	lot UU, U3 ify, Boota	:06:00 = ble		
	ID	Туре		Vendor	Product		Size	Status
	0	Stripe/Mirror	(R10)	ADAPTEC	12		147GB	Optimal

After configure successfully, please exit Adaptec SCSISelct Utility window and restart system.

Adap Copy	daptec HostRAID BIOS v4.30 ppyright 2004 Adaptec, Inc. All Rights Reserved.										
444	Press <ct< td=""><td>cl×A</td><td>) fc</td><td>or S</td><td>SCSISelec</td><td>t(IM) Utility!</td><td>***</td><td></td><td></td><td></td><td></td></ct<>	cl×A) fc	or S	SCSISelec	t(IM) Utility!	***				
Slot	PCI Addr	ASIC	ID	LU	Vendor	Product	Rev	Size	Sync	Bus	Sts
00 00 00 00	03 :06 :00 	7902 7902 7902 7902 7902	0 0 1 2 3 7 8 4	0 0 0 0 0 0	ADAPTEC SEAGATE SEAGATE SEAGATE SEAGATE ADAPTEC SDR	1 ST373453LC ST373453LC ST373453LC ST373453LC AIC-7902 GEM318P	4.30 0005 0005 0005 0005 4.30 1	147GB 73GB 73GB 73GB 73GB	320 320 320 320 320 320	16 16 16 16 8	Opt Opt Opt Opt

1.4.4 Deleting a RAID set

From the Adaptec SCSIselect utility menu, go to the Stiped (R0) properties. Press "**Del**" key to display the Main Menu below. This is the fastest and easiest method to delete your first array.

Create	, Spare,	Delete, Re	ebuild, Ver	ify, Bootable ——		
ARRA	Y Name:	GIGABYTE -	- Striped -	64K stripe size		
ID	Type		Vendor	Product	Size	Status
1	Striped	(RG)	SEAGATE	ST373453LC	73CB	Optimal

-						
ID	Type		Vendor	Product	Size	Status
1	Striped	(RE)	SEAGATE	ST373453LC	73CB	Optima
2	Striped	(RO)	SEAGATE	ST373453LC	73CB	Optima
			🖵 Delete	Array? -		

When the dialogue windows appear, click <Yes> to proceed.

1.4.5 rebuilding a RAID 1 Set

During the post screen, SCSI HostRAID BIOS does checks RAID 1 condition each time. If one of the disk broken, it is appears which drive failure.

After replaced a drive, restart a system and during the POST screen, please press "**Ctrl+A**" into the SCSI utility

Adap Copy	tec rigl	Hos nt 2	stRA I 2004	D BIOS v4. Adaptec, I	30 nc. All Rights Reser	ved .		
444	Pres	ss <	Ctrl	> <a> for S	CSISelect(TM) Utilit	y! >>>		
Slot	Ch	ID	LUN	Vendor	Product	Size	Bus	Status
06	B	1	0	ADAPTEC	GIGABYTE	73CB		Degraded
06	B	3	0	IBM	IC35L146UCDY10-0	147GB	16	Spare
66	B	4	0	IBM	IC35L146UCDY10-0	1476B	16	
06	B	8	0	SDR	GEM318P		8	

Note → Please determined which drive in the RAID has failed and need to be replaced

From the **SCSISelect Utility** menu, press **<Enter>** on ID-1 Mirrored (R1) property.

ID	Туре	Vendor	Product	Size	Status
1	Mirrored (R1)	ADAPTEC	GICABYTE	73GB	Degrade
3	Spare	IBM	1C35L146UCDY16-6	147CB	Optimal
4	Hard Drive	IBM	IC35L146UCDY10-0	147CB	Free

From the SCSIRAID properties menu, press $\langle \mathbf{R} \rangle$ key to rebuild a replaced drive.

Create	Adaptec Alc AlC , Spare, Delete, N	€SCSISelect -7902 B at s Rebuild, Ver	(TM) ▶ Utility v4. lot C6, C2:C5:C1 = ify, Bootable	30	
ARRA ID	Y Name: CIGABYTE - Type	- Mirrored Vendor	Product	Size	Status
3 2	Mirrored (R1) Mirrored (R1)	IBM Seagate	IC35L146UCDY10-0 ST373453LC	147CB 73CB	Replaced Optimal

A prompt message will pop-up after you ready for rebuild replaced drive,

please choose **<YES**> button



All data will be overwritten on the new drive from the existing array drive in a while.

ID	Туре	Vendor	Product	Size	Status
3	Mirrored (R1)	IBM	IC35L146UCDY10-0	147GB	Replace
2	Mirrored (R1)	SEAGATE	ST373453LC	73GB	Optimal

After finished the rebuilding, please restart system again.

2. RAID driver installation

A system with Adaptec 7902W SCSI RAID driver installed needs have an appropriate driver for the RAID controller to operate properly. If you would like add RAID driver to an existing system, the driver may be direct installed from the CD, whereas install the RAID driver in new system usually will require a driver disk, please extract RAID driver into floppy disk form CD or GIGABYTE web site.

2.1 Installing the Adaptec 7902W RAID controller

2.1.1 Winodws 2000/XP/2003

(Installing the driver in new system)

If you installing the driver in new system, please press **<F6>** during the message appears **"Press F6 if you need to install a third party SCSI or RAID driver...**".

Press F6 if you need to install a third party SCSI or RAID driver...

Note \rightarrow You only have 5 seconds to press the F6 key during the installation startup. Press F6 at this time; otherwise, you must restart the Windows 2000/XP installation process to complete this procedure

Press **<S>** to specify additional device when Windows prompted.

indows Setup

Setup could not determine the type of one or more mass storage devices installed in your system, or you have chosen to manually specify an adapter. Currently, Setup will load support for the following mass storage devices(s):

<none>

- To specify additional SCSI adapters, CD-ROM drives, or special disk controllers for use with Windows, including those for which you have a device support disk from a mass storage device manufacturer, press S.
- If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER.

S=Specify Additional Device ENTER=Continue F3=Exit

Insert Adaptec 7902W RAID driver disk that you earlier extract RAID driver into floppy disk, then press **<Enter>**



Select the **Adaptec Ultra 320 SCSI cards (Windows XXXX)** depend on your type of operating system, then press **<Enter>** to proceed.



2.1.2 Windows 2000/XP/2003

(Adding the controller to an existing system)

If you would like add the RAID controller to an existing system, please restart system and into **Computer Management** window (**My Computer** click right button > choose **Manage**).



Note→ Windows will automatic detect the RAID controller and then pop-up "New Hardware Found" window, please click "Cancle" and install driver by manually.

Double click **RAID Controller** item, **RAID Controller Properties** window is pop-up, then click "**Reinstall Driver**" button.

📙 Computer Man	RAID Controller Properties	_ 🗆 🗙
🗐 File Action Vi	General Driver Details Resources	
Computer Manager	RAID Controller	
System Foos System Foos Event View Shared Fol Stared Fol	Device type: Other devices Manufacturer: Unknown Location: PCI Slot 6 (PCI bus 2, device 5, function 0)	
	Device status This device is not configured correctly. (Code 1) To reinstall the drivers for this device, click Reinstall Driver.	
	Reinstall Driver Device usage: Use this device (enable)	
K	OK Cancel	

Insert original CD or floppy disk that you earlier extract RAID driver into floppy disk.

Select Install the software automatically (Recommended), then press <Enter>.

Hardware Update Wizard	
	Welcome to the Hardware Update 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?
	Install the software automatically (Recommended)
Street States	C Install from a list or specific location (Advanced)
	Click Next to continue.
	<u> </u>

Hardware Update Wizard window appears, system doing search a suitable



driver automatically.

After the driver installation is done, click <**Finish**>

Hardware Update Wizard	
	Completing the Hardware Update Wizard The wizard has finished installing the software for: Adaptec AIC-7902B HostRAID driver
	Clerk Finish to close the media.
	K Back Finish Cancel

Please repeat the above step and installing Host RAID SCSI Processor Device.

After the Host RAID SCSI Processor Device installed completely, please restart system, then initial partition.



2.1.3 Red Hat 9.0

The Adaptec 7902W or SCSI RAID controller in a Red Hat 9.0 Linux system does require SCSI RAID driver installation.

To install the host RAID controller:

- 1. Boot Red Hat 9 from the CD 1.
- When the Red Hat Linux 9 screen appears, type "linux dd", then press enter.



When dialogue window "Do you have a drive disk?" pop-up, please click "**Yes**" by pressing <Tab> key.



Please extract SCSI RAID driver for Red Hat 9.0 file to a floppy disk, insert this disk and click "**fd0**" item when the system asks which device you would like to use, then press **<Enter>**



A prompt message is pop-up after your floppy disk has already inserted. Choose **YES**> button while the system has ready for loading this driver.



Please continue with the Linux install while the driver to installed the system.