Chapter 4 : " Advanced Information "

This chapter describes more information about your Disk Array. The following items are describes in detail.

- Memory Expansion
- RAID Controller
- Updating Firmware

Memory Expansion

Your Disk Array comes with 64MB of memory that is expandable to a maximum of 512MB.

These expansion memory module can be purchased from your dealer.

- Memory Type: 3.3V PC100/133 SDRAM 144pin DIMM.
- Memory Size : Supports 144pin DIMMs of 64MB, 128MB, 256MB or 512MB.
- Height : 1.15 Inches (29.2 mm).

64MB	8(8Mx8), 8(4Mx16) or 4(8Mx16)
128MB	16(8Mx8), 8(16Mx8), 8(8Mx16) or 4(16Mx16)
256MB	16(16Mx8), 8(32Mx8) or 8(16Mx16)
512MB	16(32Mx8)



- Installing Memory Modules :
 - 1. Unscrew & Remove cover



Unscrews

Figure : Remove Cover

2. Install the memory

- a. The DIMM memory modules will only fit in one orientation.
- b. Press the memory module firmly into socket from a 45 degree angle, make sure that all the contacts are aligned with the socket.
- c. Push the memory module forward to a horizontal position.



Front Panel

Advanced Information



Updating Firmware

1. Setup your VT100 Terminal

Please configure the VT100 terminal setting to the values shown below :

VT100 terminal (or compatible) set up

Connection	Serial Port (COM1 or COM2)
Protocol	RS232 (Asynchronous)
Cabling	Null-Modem cable
Baud Rate	115,200
Data Bits	8
Stop Bit]
Parity	None

Setup VT100 Terminal

Example : Setup VT100 Terminal in Windows®

Step 1.



Step 2.



Step 3. Enter a name for your Terminal.

New Connection - Hy	perTerminal	
<u>File Edit View Call Ira</u>	ansfer <u>H</u> elp	
02 8 8	8	
	Connection Description	? ×
-	New Connection	
	Enter a name and choose an icon for the cor Name: RAID	onnection:
	Loon Solution (1997) (
	ОК	Cancel
Disconnected	Auto detect SCROLL CAP	PS NUM Capture Print echo

Step 4. Select a connecting port in your Terminal.

D e 93 - D2		212	
-	RAID		
	Enter details for the phone r	number that you want to dial:	
	Country code: United Sta Area code: 02	ates of America (1)	
	Phone number:	Com1	
		0K Cancel	

Step 5. Port parameter settings

COM1 Properties	? ×	1
Port Settings		
Bits per second: 115200		- 1
Data bits: 8	×	
Earity: None		
Stop bits: 1		
Elow control: None	×	- 1
Advanced	Restore Defaults	- 1
OK Car	icel Apply	

Step 6.



Step 7. Select emulate VT100 mode

RAID - HyperTerminal Ele Edit View Call Iransfer Help		
Ele Edit View Qall Iransfer Help	RAID Properties Connect To Settings Function, arrow, and ctil keys act as Image: Settings Image: Settings Backspace key sends Image: Settings Image: Settings Image: Settings Settings Image: Setting </th <th>2 X</th>	2 X
Connected 0:01:45 VT100	19200 8-N-1 SCROLL CAPS NUM Capture	Print echo

After you have finished the VT100 Terminal setup, you may restart your Disk Array and press " Ctrl + D " keys (in your Terminal)to link the Disk Array and Terminal together.

Press Ctrl

+

to display the disk array Monitor Utility

screen on your VT100 Terminal.

D

Start to Update Firmware

1. Move the cursor to " Update ROM " and press "Enter".

Z:Move Cursor, ESC:Exit, Enter:En	ter, Tab:Switch to Output Area Move Cursor:AZSX, Tab:Switch to Menu Ar	ea
Moni	tor Utility v0.01P	
LCD	OUTPUT	1
No Configurat	ion Host Chan 1 SCRIPT GOOD	i II
MENU	Host Chan 1: TEST OK	i i i
+Main Menu+	Testing disk connection 1 2 OK.	i li
Re-Config RAID	Testing disk connection 4 3 OK.	- î II.
RAID Level	Use LBA Mode	i i i
Hot Spare Disk	DISK: #4 WDC WD800BB-00BSA0	#
Set SCSI ID	(C,H,S,M) = (155061, 16, 63, 16)	#
Termination	DMA Mode = $0x84$ 4	#
Set Password	DISK: #1 WDC WD800BB-53BSA0	#
Save & Restart	(C,H,S,M) = (155061, 16, 63, 16)	#
Update ROM	DMA Mode = 0×84 4	#
++	DISK: #2 WDC WD800BB-00BSA0	#
	(C,H,S,M) = (155061, 16, 63, 16)	#
	DMA Mode = 0x84 4	#
	DISK: #3 WDC WD800BB-53BSA0	#
	(C, H, S, M) = (155061, 16, 63, 16)	#
	DMA Mode = 0×84 4	#
	Use NVRAM config info.	#
	RAID not configured!	#
	Hot-Plug function ready.	#

Warning !

Unpredictable results will occur if firmware update is attempted during Host computer and Disk Array activity. All activity to the controller should be stopped before updating firmware. 2. Press "Y" to download the new firmware and press "Y" again to confirm the Update.



3. Select transfer " Send Text File " and press Enter.



4. Locate the new Firmware file on your PC.

📚 RAID - HyperTerminal	_D×
Eile Edit View Çall Iransfer Help	
	-
Préses doubles din the new firmune	
shutdown the host computer system.	
Are you ready to download the new firmware?(Y/N) Y	
Are you sure? (Y/N) Y	
Begin firmware file transfer now.	
To abort download restart the RAID system.	
Send Text File ? 🗙	
Look in: 🔄 firmware 🔻 🔁 📝 💣 📰	
File name: Itrmware	
Files of type: All files (*.*) Cancel	
	,
Connected 0:32:39 VT100 115200 8:N-1 SCROLL CAPS NUM Capture	Print echo

5. Press " Go " to confirm to download the new firmware.



- 6. Type " **Go** " to reconfirm and the firmware will begin to be reprogrammed.
- 7. After verifying, please **restart the Disk Array** to activate the new firmware.

