

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
- Capacity Expansion (On-Line Expand)

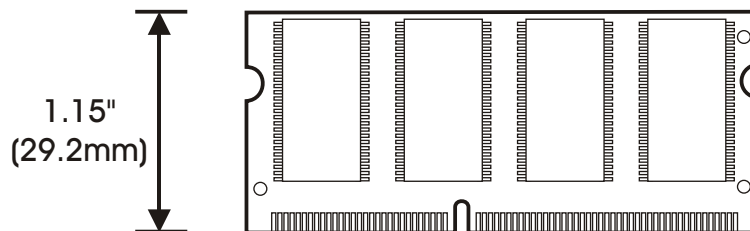
Memory Expansion

Your Disk Array comes with 128MB 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 Module :

1. Unscrew & Remove cover

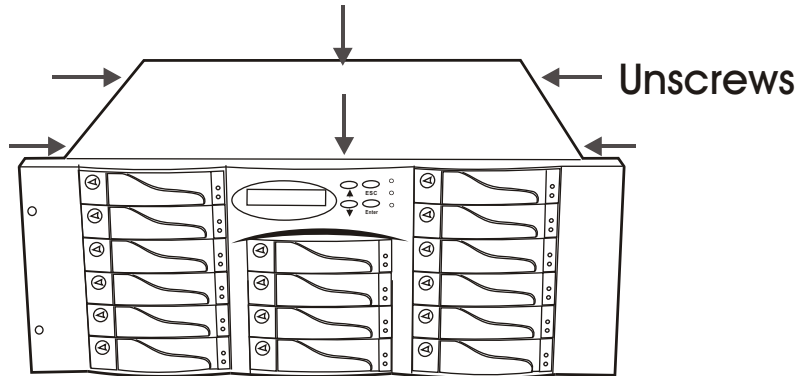


Figure : Remove Cover

2. Remove the Internal SCSI Host Cable

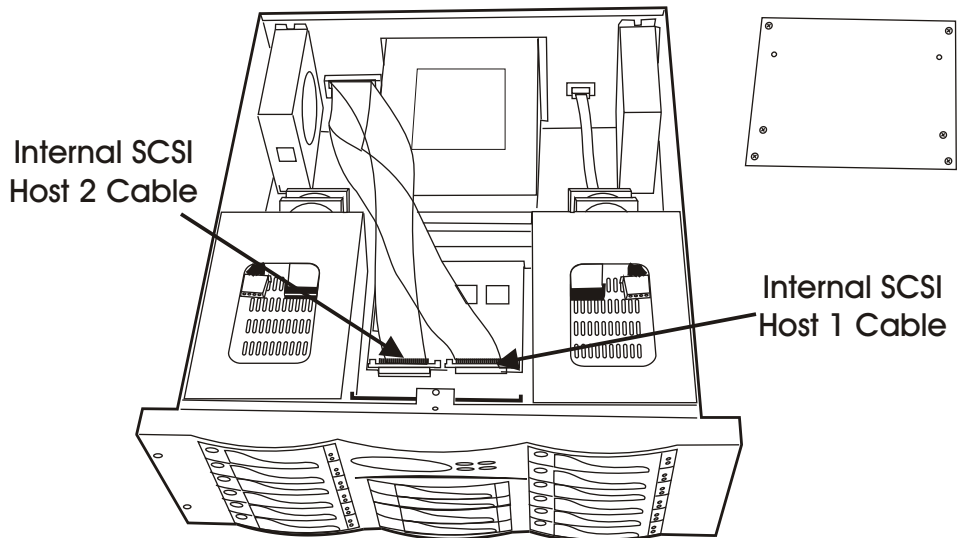


Figure : Remove SCSI Cable

3. Remove the RAID Controller Set

- a. Remove the RAID Controller's Holder screws
- b. Push the RAID Controller Set toward to the front panel to release the Controller Set from the Back Panel PCB.

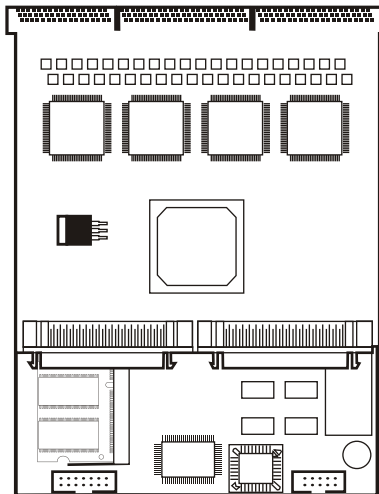


Figure : Remove the RAID Controller

4. Separate the Controller

- a. Separated the Controller's main board and the daughter board.
- b. Remove the DIMM Memory from the RAM socket.

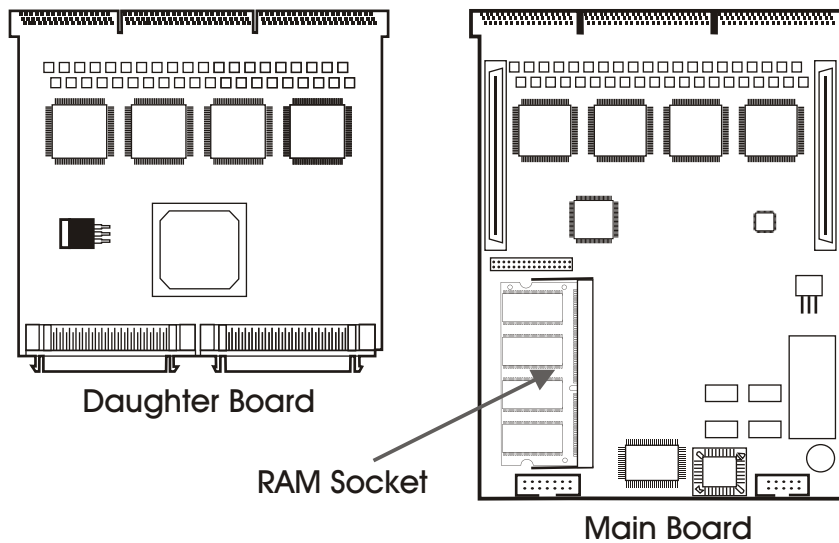
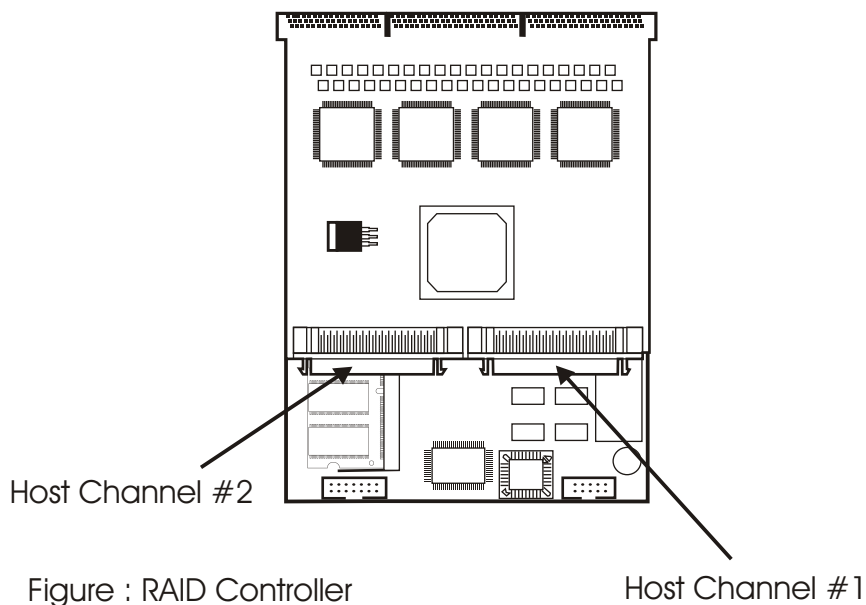
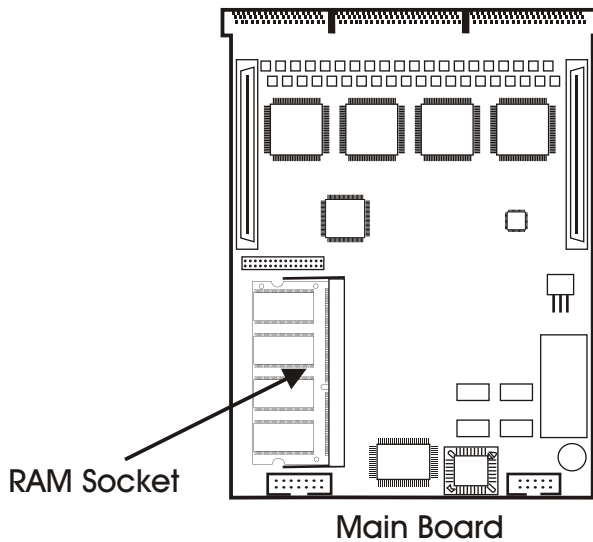


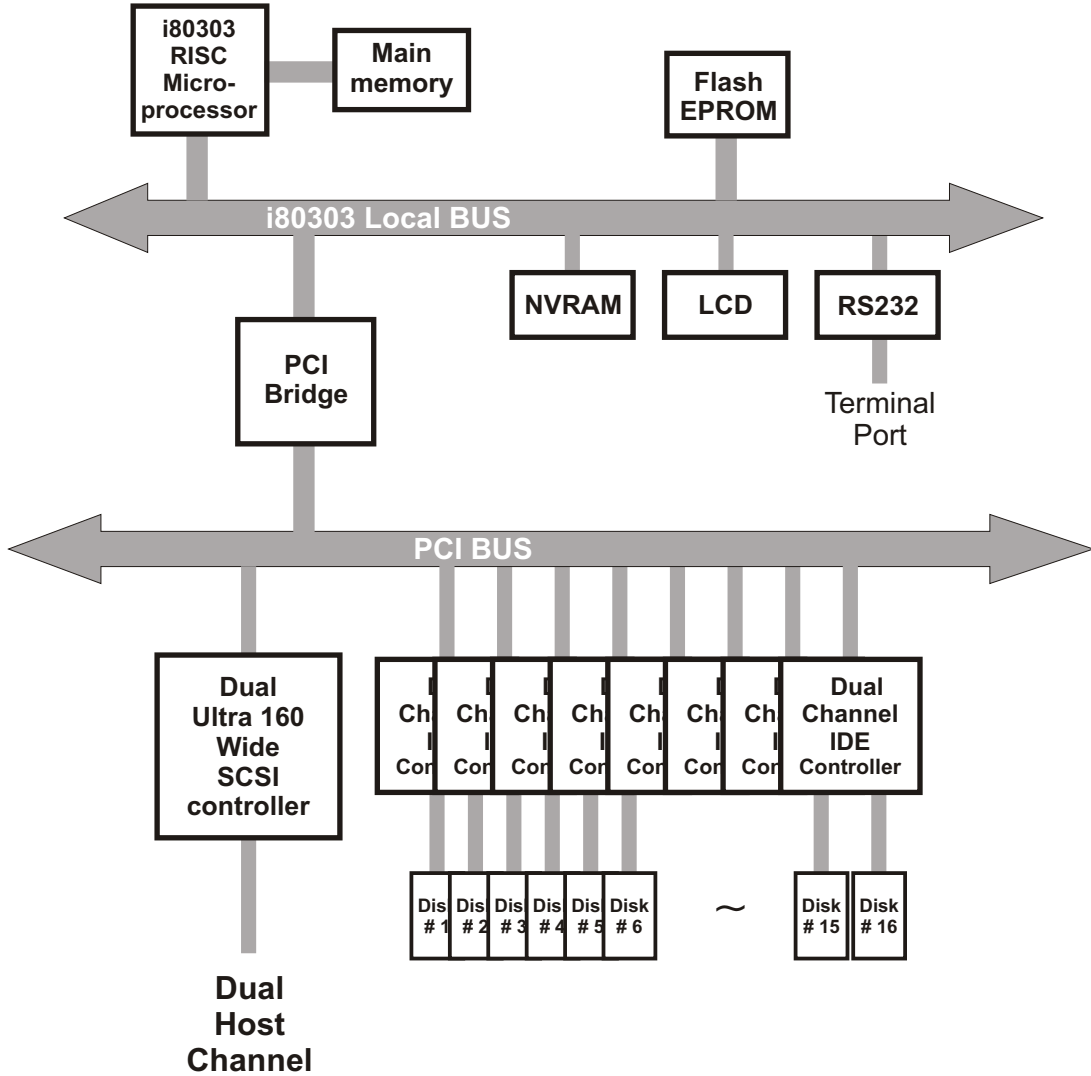
Figure : Separate RAID Controller

5. 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.



Disk Array Controller Block Diagram



Updating Firmware

1. Setup your VT100 Terminal

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

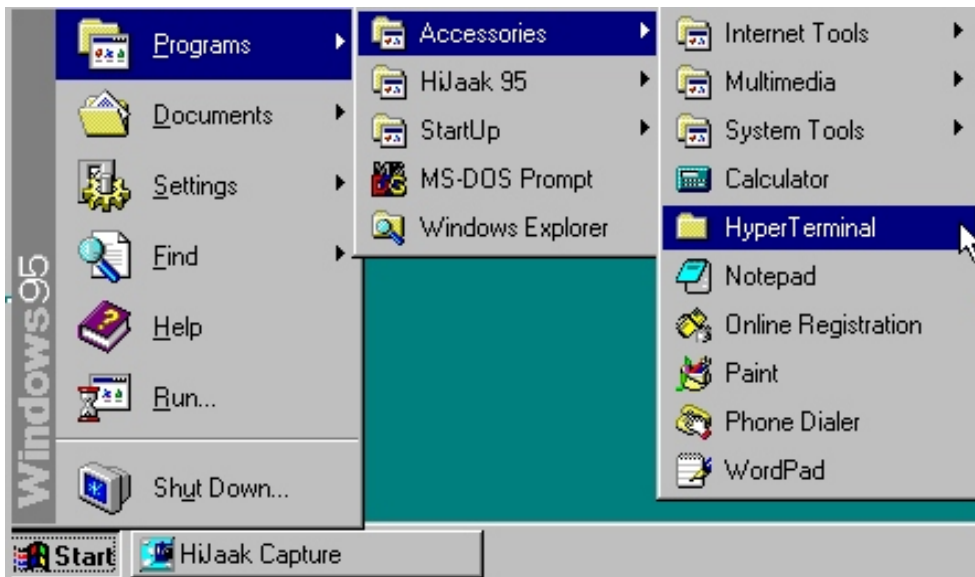
VT100 terminal (or compatible) set up

Connection	Serial Port (COM1 or COM2)
Protocol	RS232 (Asynchronous)
Cabling	Null-Modem cable
Baud Rate	115,200
Data Bits	8
Stop Bit	1
Parity	None

Setup VT100 Terminal

Example : Setup VT100 Terminal in Windows® 95

Step 1.

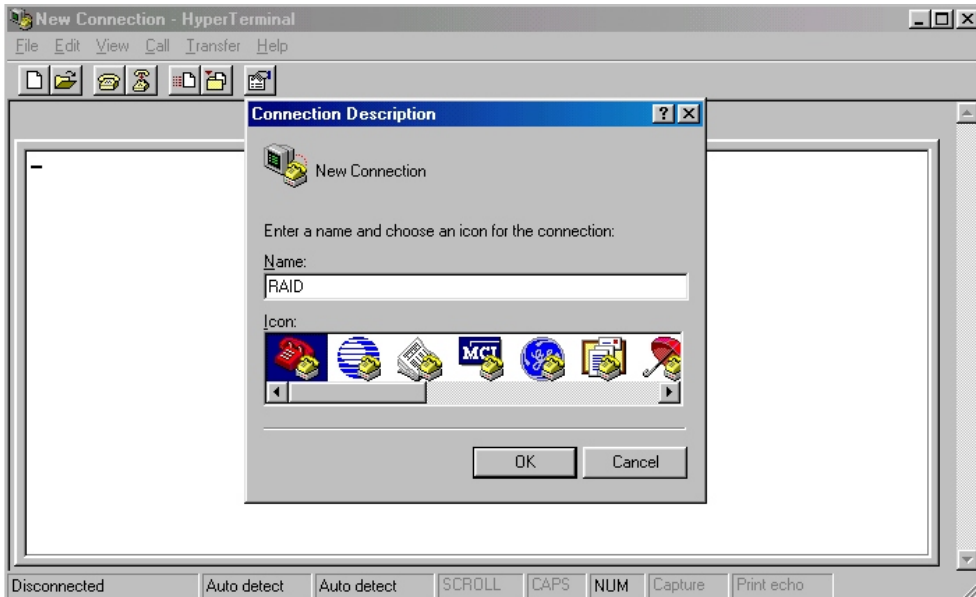


Step 2.



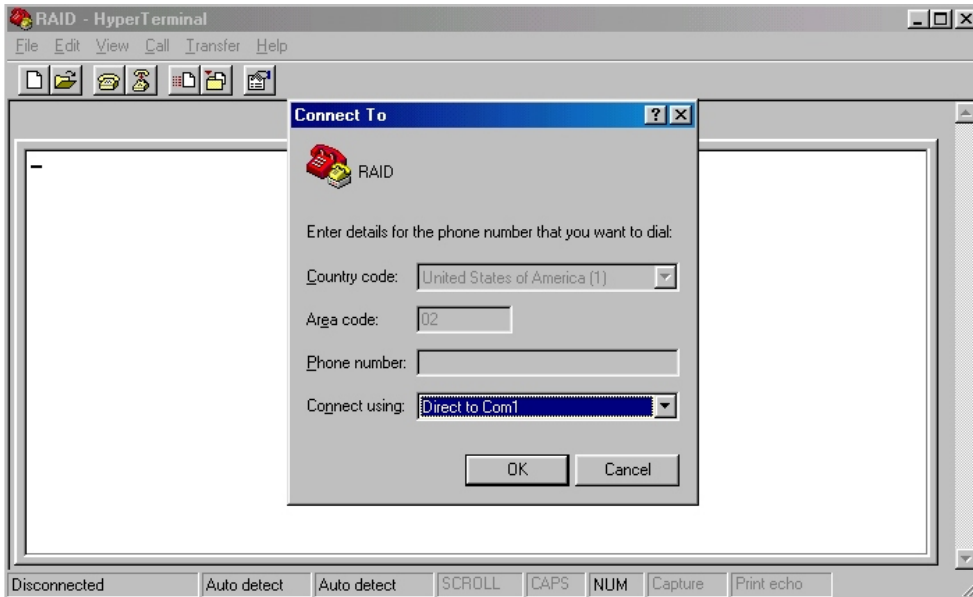
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Step 3. Enter a name for your Terminal.



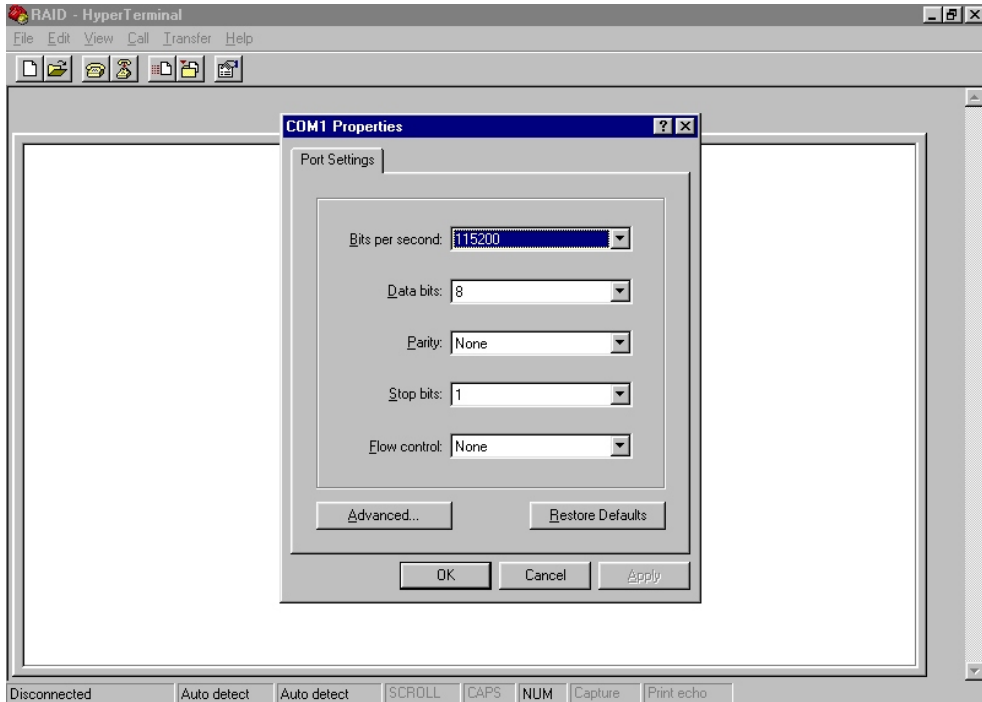
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Step 4. Select a connecting port in your Terminal.

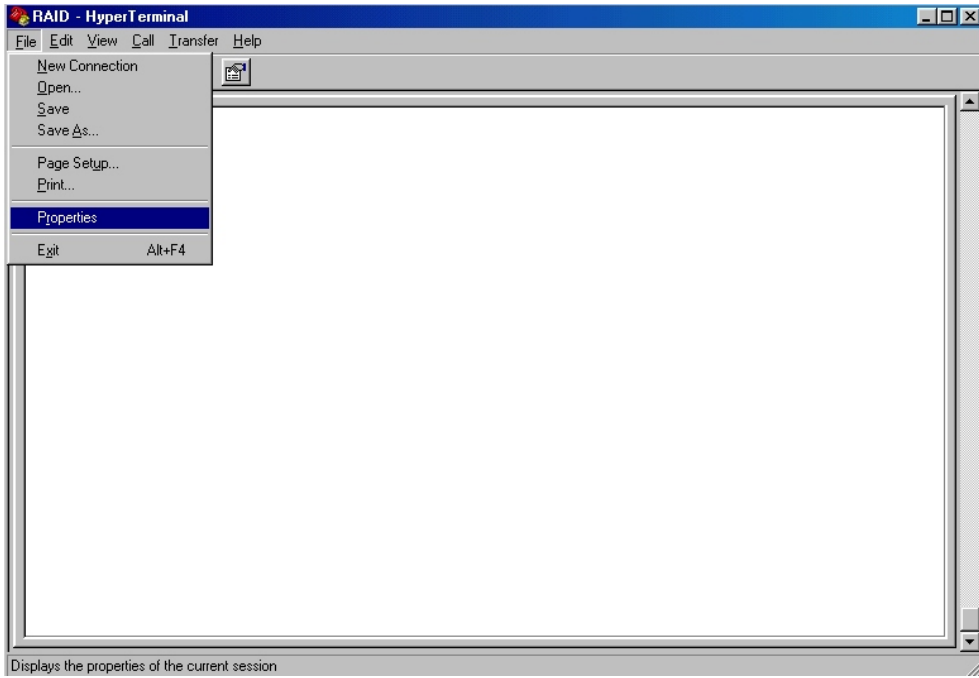


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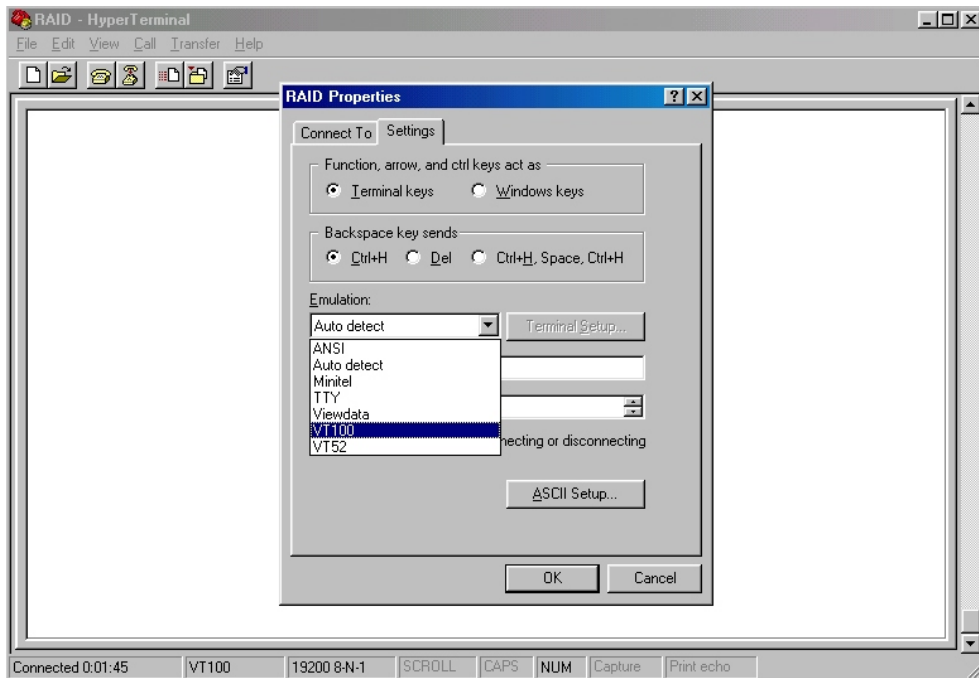
Step 5. Port parameter settings





Step 6.



Step 7. Select emulate VT100 mode

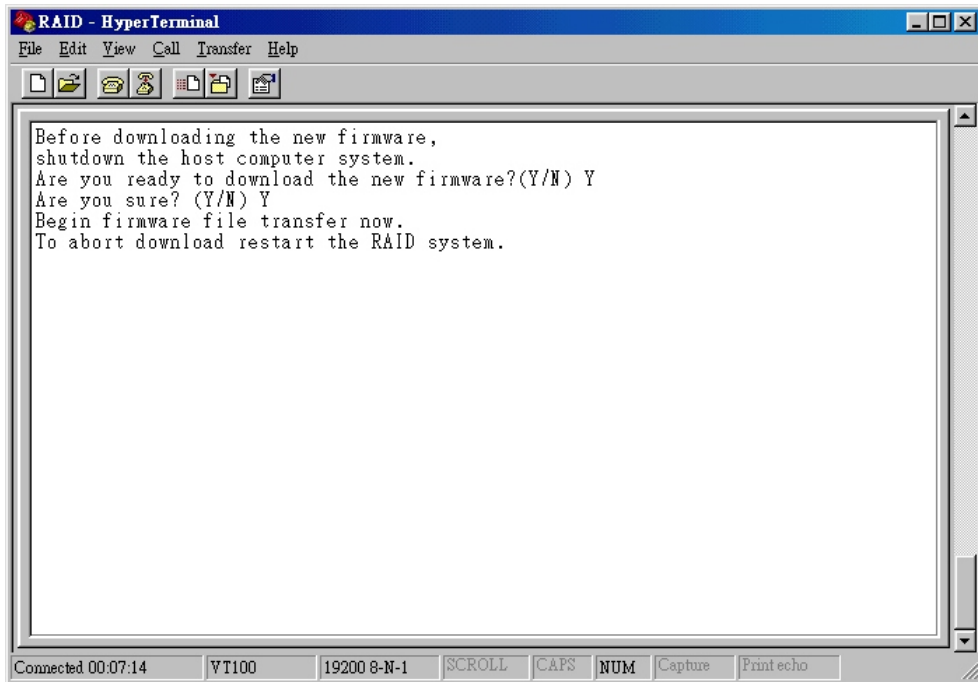


After you have finished the VT100 Terminal setup, you may restart your Disk Array and press " Ctrl + D " keys (in your Terminal)to link the Disk Array and Terminal together.

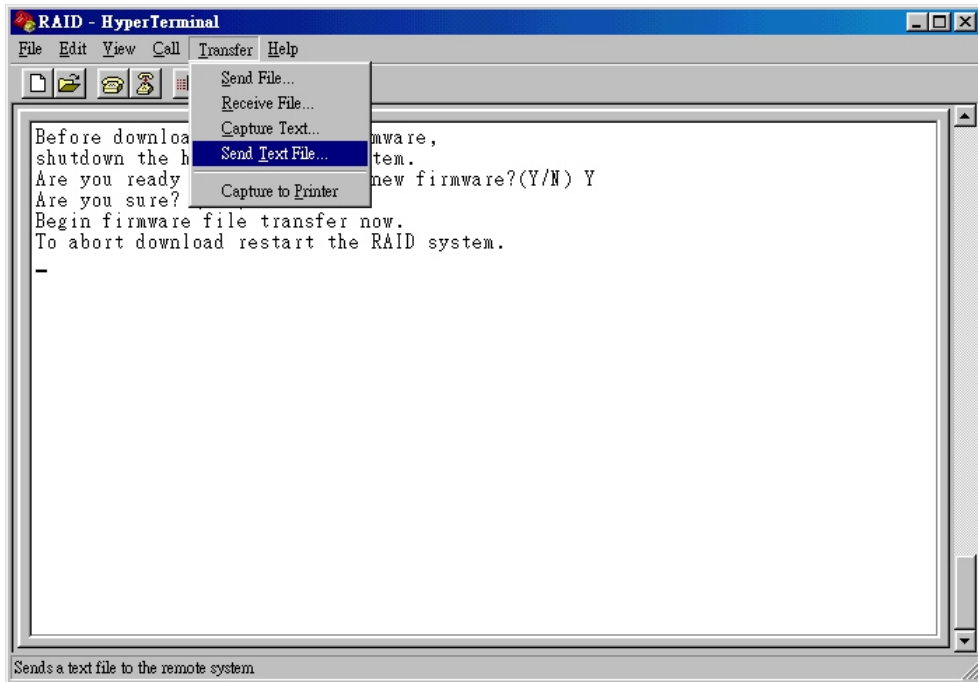
Press  +  to display the disk array Monitor Utility screen on your VT100 Terminal.

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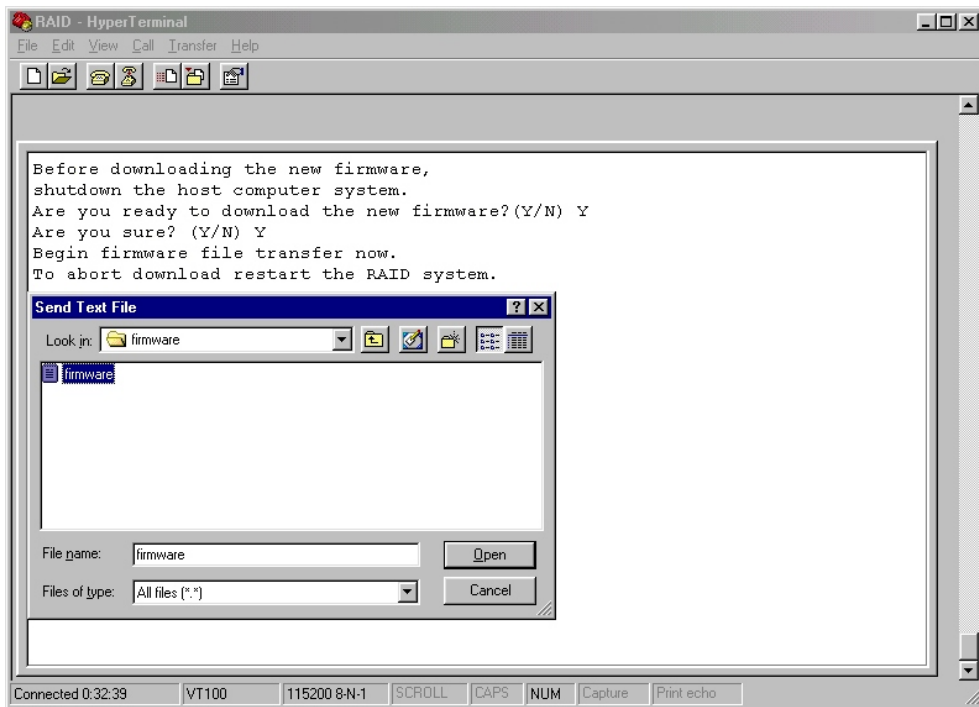
2. Press " Y " to download the new firmware and press " Y " again to confirm the Update.



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

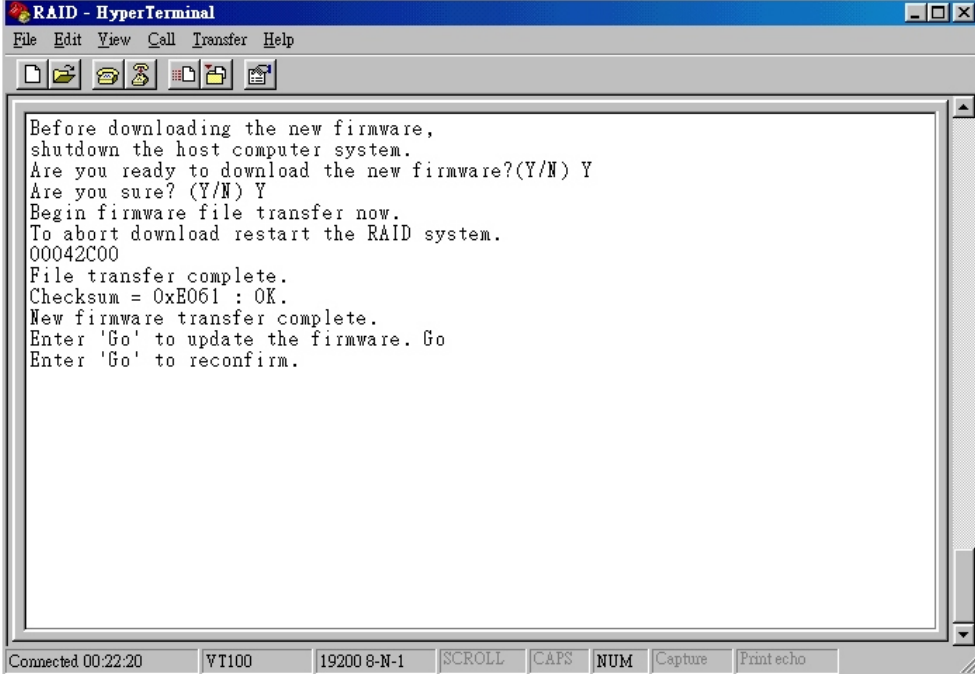


4. Locate the new Firmware file on your PC.



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



```
RAID - HyperTerminal
File Edit View Call Transfer Help
Before downloading the new firmware,
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.
00042C00
File transfer complete.
Checksum = 0xE061 : OK.
New firmware transfer complete.
Enter 'Go' to update the firmware. Go
Enter 'Go' to reconfirm.
Connected 00:22:20 VT100 19200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

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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.

```
RAID - HyperTerminal
File Edit View Call Transfer Help
[Icons]
Before downloading the new firmware,
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.
00042C00
File transfer complete.
Checksum = 0xB061 : OK.
New firmware transfer complete.
Enter 'Go' to update the firmware. Go
Enter 'Go' to reconfirm. Go
Programming...
count = 0000
Done!
Verifying...
```

Connected 00:32:31 VT100 19200 8-N-1 SCROLL CAPS NUM Capture Print echo