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**NOTE:** All specifications are subject to change without notice

## **INTRODUCTION**

Congratulations on your purchase of the 3.5" SATA to ESATA Hard Drive Enclosure which brings you the easiest way to move your SATA hard disk drive from internal to external and without losing the performance of the SATA I (1.5G bits/sec ) or SATA II (3.0G bits/sec ) and in the same time you can get the Plug & Play and hot swappable benefit and still have a good heat ventilation aluminum enclosure to protect your SATA hard disk (The computer needs to have ESATA external ports).

The 3.5" SATA to ESATA hard drive enclosure is the perfect way to add extra storage to your laptop or desktop computer or users who do not want the hassle of installing a new hard drive without opening the computer case!

## **PACKAGE CONTENTS**

- One 3.5" SATA HDD to ESATA External Enclosure
- One ESATA Cable
- One power cord
- Bracket with power and ESATA port
- Plastic Feet
- User's Manual
- Screw kit for installing hard drive

## **FEATURES**

- Ideal for 3.5" SATA HDD
- Fanless design
- One ESATA port
- Converts 3.5" SATA hard disk drives from internal to ESATA external hard drives
- Supports all 3.5" SATA hard disk drives of any capacity
- SATA transfer rates up to 1.5G bits/sec or 3.0G bits/sec (depend on the SATA HDD type)
- Plugs & Plays and be hot-swappable
- Hard drive activity light for indication

## **SPECIFICATIONS**

- Interfaces: Serial ATA
- Compliance with Serial ATA I and Serial ATA II Electrical Specification
- Support SATA II Asynchronous Signal Recovery (Hot Plug) feature
- LED indicators: Front-Power, HDD activity
- Case material: Aluminum
- Weight: 1.1 lbs./ 0.5Kg (Without accessory)
- Dimensions: 8.5" L x 4.9" W x 1.3" H  
217mmL x 124mmW x 33mmH

- Environmental:
  - Power Requirements: 110-220 VAC, 50-60 Hz, 12V/2A, 5V/2A
  - Operating Temperature: 5 °C to 50 °C
  - Storage Temperature: -40 °C to 70 °C
  - Operating Humidity: 5 to 90%, non-condensing
- Warranty: 1 year, limited

## **SYSTEM REQUIREMENT**

### **PC Requirements**

- Minimum Intel Processor II 350MHz, 64MB RAM
- Serial ATA: Windows 98SE/ME/2000/XP
- Computer must have proper port or PCI card

### **Mac Requirements**

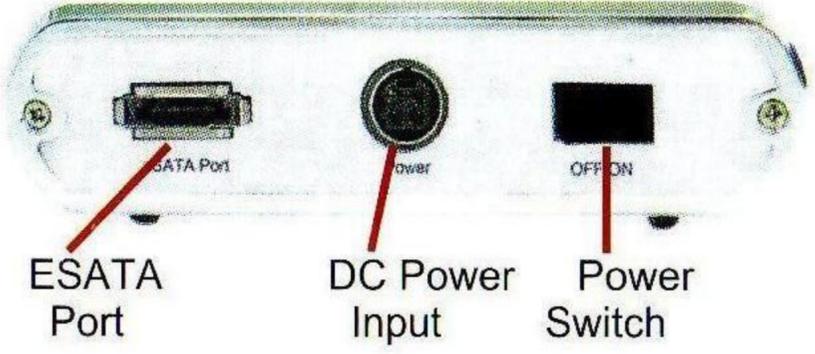
- Minimum Apple G3 processor (G4 for 1394b), 64MB RAM
- Serial ATA equipped Mac (ESATA); Mac OS 10.2 or higher
- Computer must have proper port or PCI card

**NOTE:** Before using the ESATA hot-swap function, please check your ports supporting or not or you need to buy a SATA PCI card.

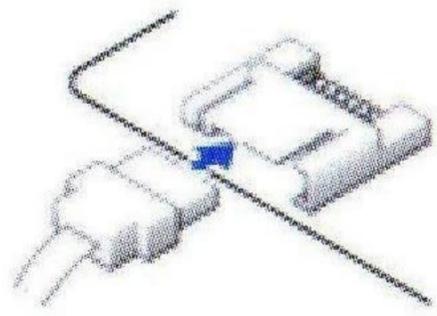
All specifications are subject to change without notice

**HARDWARE INSTALLATION**

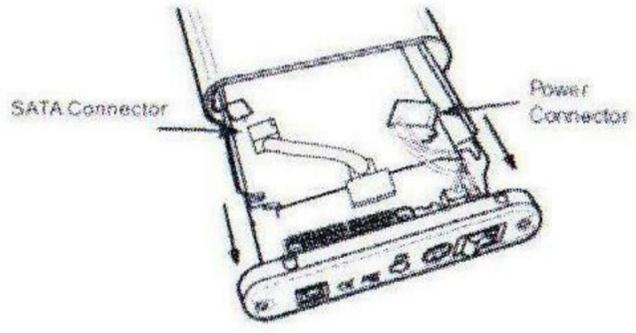
1. The ESATA back panel connector and switch arrangement.



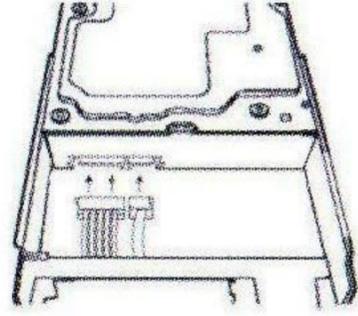
2. Before install hard disk to the enclosure, please make sure your hard disk interface type and the pictures of the installation step shows in the SATA interface



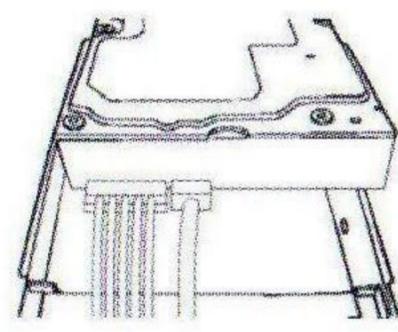
3. Open the back of the enclosure by sliding the tray out of the aluminum housing. NOTE the SATA and power connector for the HDD.



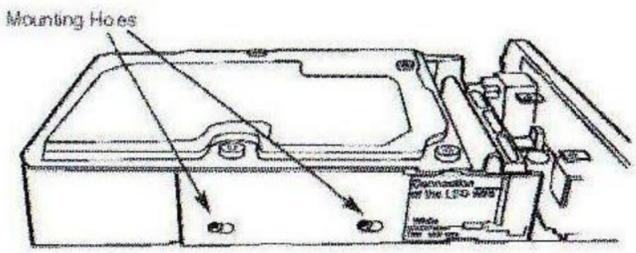
4. Place the HDD in the tray aligning the SATA and power connectors.



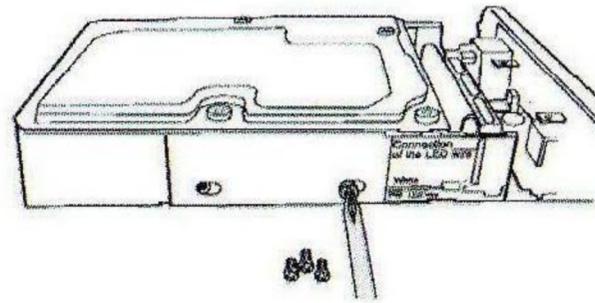
5. Connect the SATA and power connectors to the HDD.



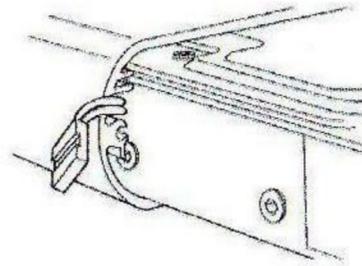
6. Position the HDD in the tray so that the mounting holes on the HDD line up with the tray mounting holes.



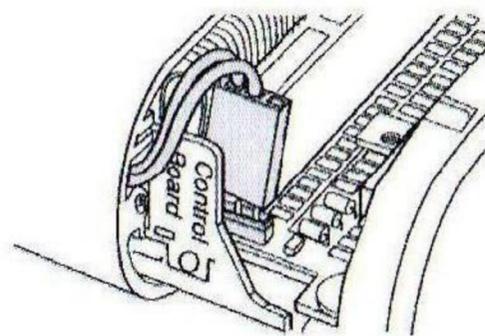
7. Use the four (4) mounting screws to secure the HDD in the tray.



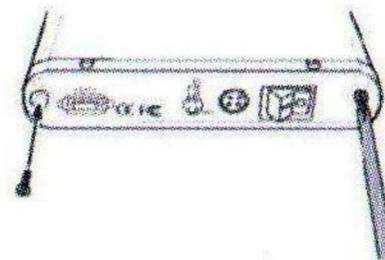
8. Gently insert the tray into the enclosure aligning the guide rail with the grooves of the enclosure housing.



9. Before fully inserting the tray, connect the HDD activity LED to the 3-pin connector. Make sure the white wire is to the outside and the red wire is on the inside.



10. Insert the tray the rest of the way into the housing and secure the tray faceplate to the enclosure using the screws provided.



11. Open your computer case and install the External PCI SATA & Power Bracket
12. Connects your internal SATA host port and Molex power connector to external PCI ports for external cables.
13. Close your computer case and connect the external Molex cable to your computer and SATA enclosure.
14. Connects the external ESATA cable to the SATA port of the computer PCI bracket and the Native 3.5" enclosure
15. Turn on the power button and verify that the LED illuminates behind the logo on the front of the enclosure.

**NOTE:** Most problems occur due to driver problems on the Host Card side!

## **SYSTEM SETUP**

Before connect your external storage enclosure, please:

- Make sure your PCI Host Card is installed correctly
- Double check that the Host Card driver is up to date
- If be needed, update your Operating System or BIOS
- For better heat sink and performance, do not cover the Enclosure and leave enough room around it
- To enable auto mount for Serial ATA, your host card or motherboard driver needs SATA Plug and Play support
- Never expose the product to water or humid conditions
- Always check for visible damage and defects of power and interface cables before using

**NOTE:** If the system doesn't recognize the drive, turn on the power first, before connecting the SATA cable.

## **SERIAL ATA CONNECTION**

**NOTE:** Before using the ESATA hot-swap function, please check your motherboard SATA ports supported or not or you need to buy a SATA PCI card to instead.

### **A. Windows OS**

- Boot-up your computer into the operation system, make sure the SATA port device driver has installed and available in operation system
- Plug the port connector of the SATA cable into the SATA port of your SATA enclosure
- Plug the port connector of the SATA cable into SATA port of computer
- Plug the external Molex cable to the inlet of your SATA enclosure and power on.
- Let Windows search and install the driver automatically
- Open "My Computer" to see your external hard drive

#### **Unplug Procedure:**

- Click on the taskbar icon for external hardware
- Choose your external hard drive and confirm to remove it

### **B. Mac OS10.2 or higher**

- Boot-up your computer into the operation system, make sure the SATA port device driver has installed and available in operation system
- Plug the port connector of the SATA cable into the SATA port of your SATA enclosure
- Plug the port connector of the SATA cable into SATA port of computer
- Plug the external Molex cable to the inlet of your SATA enclosure and power on
- No driver installation required
- The external drive will mount and show up on your desktop

## **Unplug Procedure-**

- Drag the external hard drive icon into the trash bin
- Turn off your device

## **PARTITION THE EXTERNAL HARD DISK**

### **CAUTION!!**

*Before you partition your hard disk, please be aware that this will destroy all your existing data on the drive, so make sure you have a backup! This step is usually only required the first time you install a factory new hard drive, if you change the format or want to erase all data on your drive.*

**NOTE:** If you can not see the drive, make sure the jumper settings of your hard drive are correct, the drivers are installed and the power is turned on!

If you use Win2000 or WinXP and FAT32, the biggest single partition you can create will be 32GB. To create larger partitions, you need to use the DOS command under Win98SE or WinME or change to NTFS format.

Mac OS does not recognize NTFS formatted drives, to use your device on both platforms, we recommend you using FAT32 format.

### **A. Partition under Windows 98/Me**

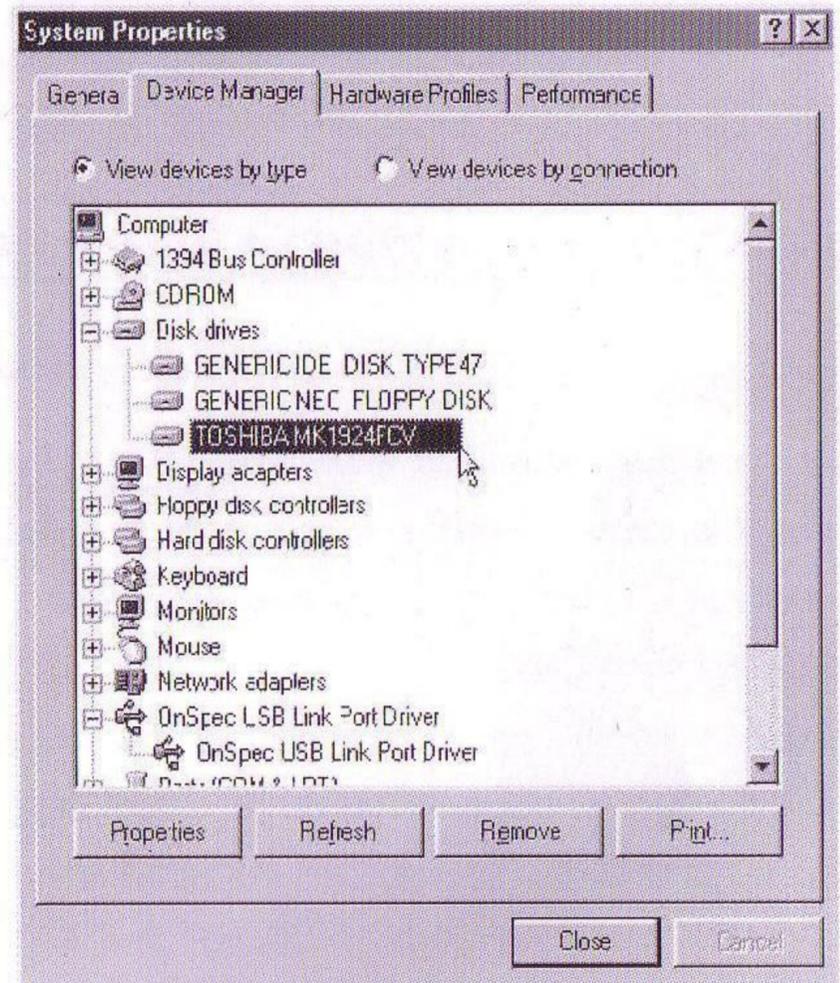
**NOTE:** Win98/SE and WinME do not recognize NTFS formatted drives, so if you want to use your drive on those platforms, we recommend you to use FAT32 instead. If you use this device to backup your data using a 3<sup>rd</sup> party software running MS-DOS, we recommend you to format the drive using FAT32.

Boot-up the computer into Windows 98/ME system. Plug your external hard disk drive. There are two methods to partition and format your external hard disk drive. (Here we are using the SATA external hard disk setting as the example)

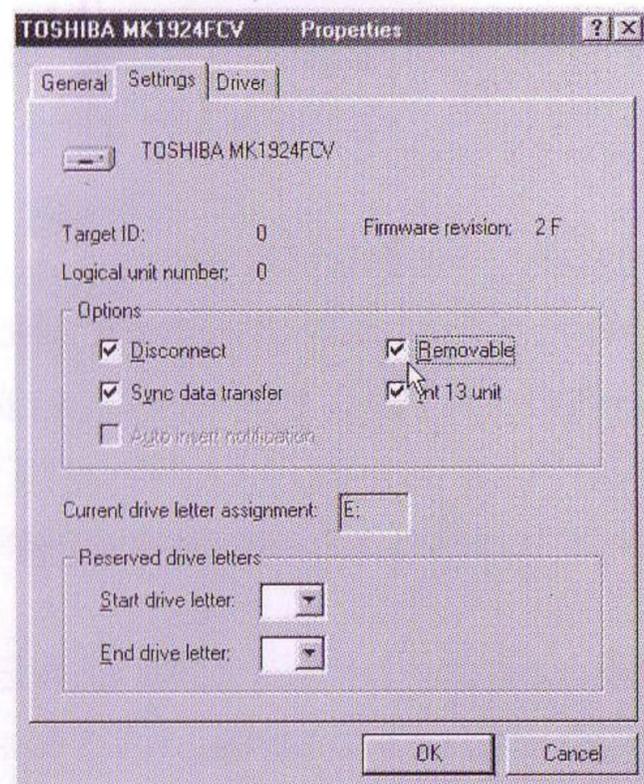
## Method 1.

**Step1.** Click on **[start]**, choice the **[control panel]** in **[setting]**, double click **[system]** and open **[hard disk]**. A screen appears as right.

**Step2.** You can see the SATA hard Disk you just add. High light the USB Hard Disk and choice the **[property]**, select **[setting]**, setting the SATA Hard Disk to **[removable]**. A screen show as right.



**Step3.** After restart the system, a removable HDD is added to **[My Computer]**. Choice the removable HDD and click right bottom of mouse. Select the **[format]** to format your SATA Hard Disk Drive.



**You only can set the Hard Disk Drive to one partition in this method.**

## Method 2

**Step1.** Go into the MS-DOS mode by click on **[Start]**, choice the **[MS-DOS Prompt]** in **[Programs ]**

**Step2.** At the DOS prompt, type **[FDISK]** and press Enter.

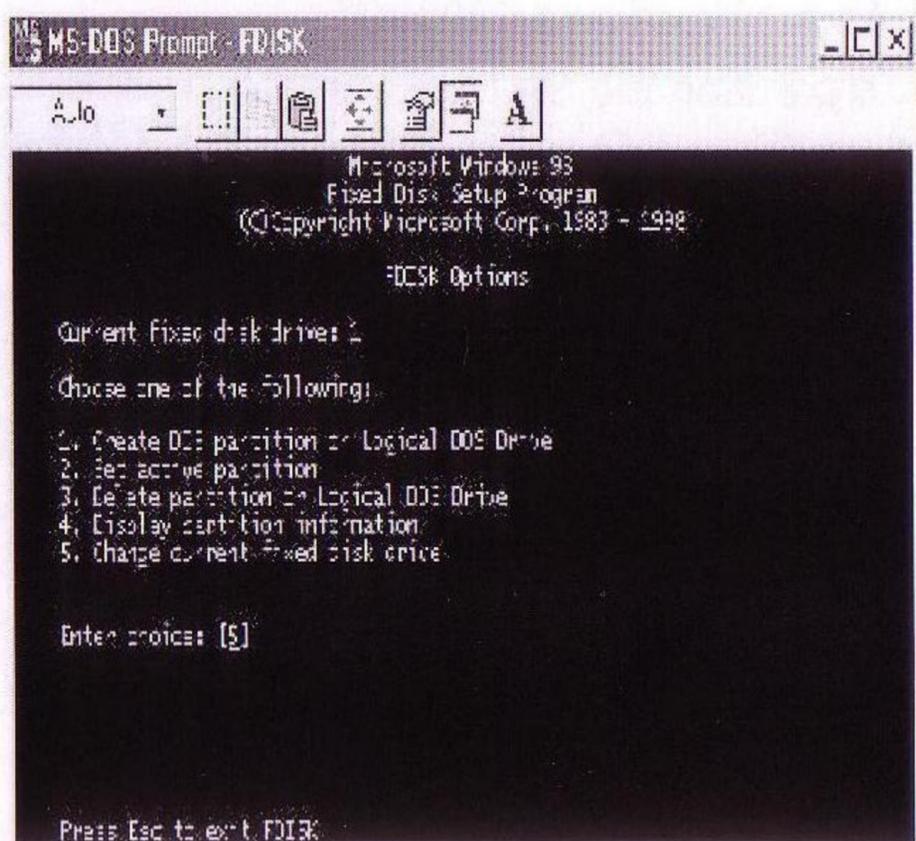
**Step3.** If FDISK quit without any message, back to the Windows 98 screen, plug out the SATA Hard Disk, re-boot computer , plug in SATA HDD again and go back to step 1 to proceed.

**Step4.** In the first screen of FDISK, answer the question:

**Do you want to enable large disk support?**

**[Y]** If you want to build a partition larger than 2GB.

**[N]** If you want to build a partition small than 2GB.



**Step5.** The next screen is **[FDSIK OPTIONS]**, and type "5" to select disk. The screen show as right.

**IMPORTANT:** you must type **[5]** in this screen to change the current fixed disk drive to build partition, the default fixed drive set by FDISK is your internal hard disk, if **you don't change the fixed disk drive to the SATA Hard Disk, the data of your internal hard disk will be destroyed.**

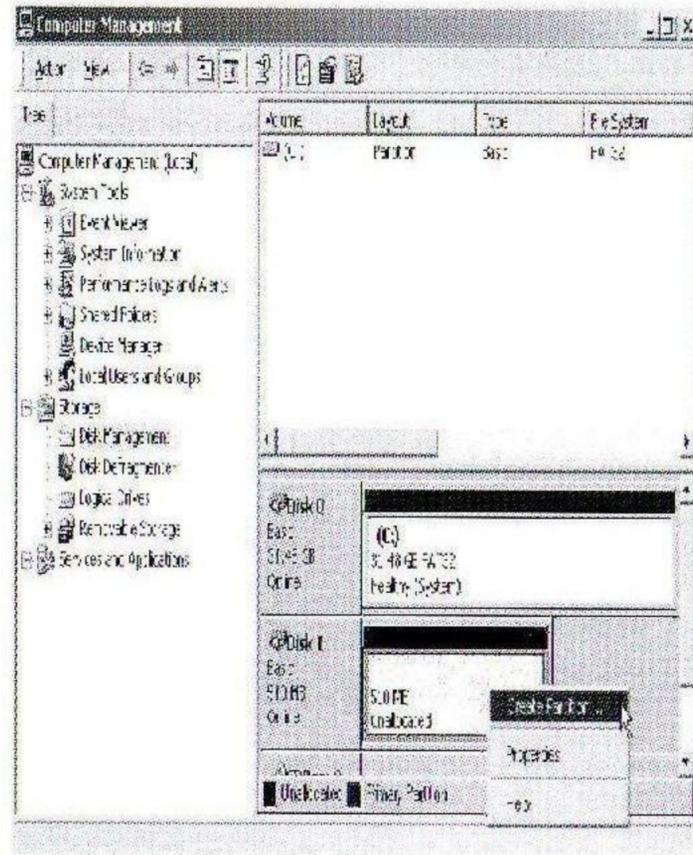
**Step6.** In the **[Change Current Fixed Disk Drive]**, type the disk drive number that assigned to the SATA Hard Disk

**Step7.** Back to **[FDISK OPTIONS]** screen, Now you can create or delete the partition of the SATA Hard Disk.

**Step8.** After you finish FDISK, back to the Windows screen, plug out and plug in SATA Hard Disk again to activate these changes. Double click on **[My Computer]** icon, the SATA Hard Disk Drive that you already partitioned will appear.

## B. Partition under Windows 2000/XP

**Step1.** To partition the SATA Hard Disk Drive under Windows 2000, please plug The SATA Hard Disk , then click on **[Start]**, choice the **[Control Panel]** in **[Settings]**, open **[Administrative Tools]** , double click **[Computer Management]**. A window appears as right.



**Step2.** Click on **[Disk Management]** on the left part of this window, all connected disk drives will be listed in the right part. Find out the SATA Hard Disk that you add. On the right of disk # is the status of the partitions of this disk drive, you can create a new or delete an exist partition by right-click on this area.

**Step3.** Right-click on the right area of SATA Hard Disk Drive, click on **[Create Partition....]** The “**Create partition wizard**” will appear.

**Step4.** Following the instructions of wizard to partition and format your SATA HDD.

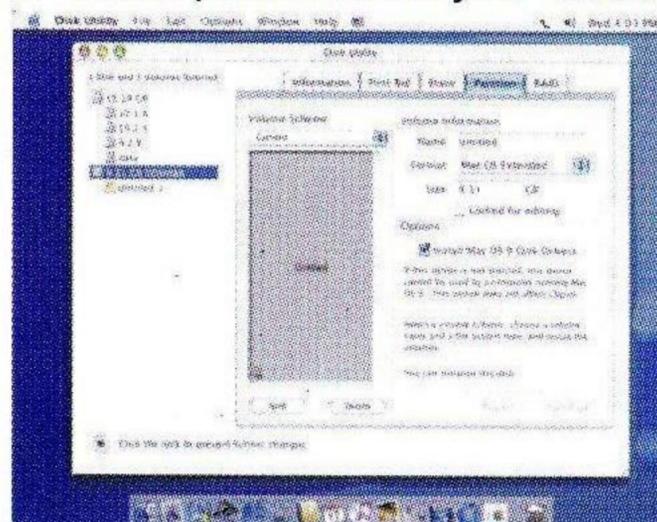
**Step5.** *Now, you have built a partition in the SATA enclosure*

## C. Mac OS

Mac OS9.2 and earlier, does not support creating partitions on an external drive. To do that, you would need to purchase additional 3rd party software. Initializing is no problem on all Operating Systems.

Mac OS X, use the Disk Utility to format and create partitions on your external disk.

- Select “Disk Utilities” in the utilities folder
- Choose your external drive and format it according to your requirement



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