

FWB-IDE02 User's Guide

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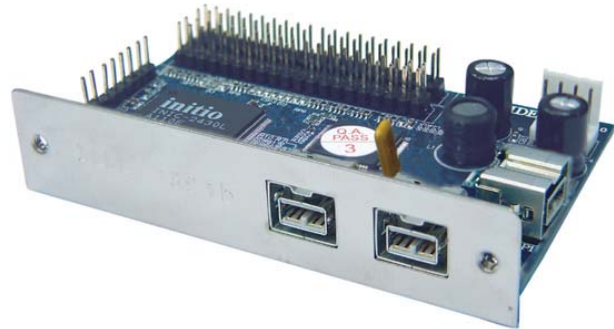
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Introduction

FWB-IDE02 is ideally suited for tailgate interface applications for ATA hard disk drive. FWB-IDE02 has two IDE channels. Each IDE channel allows ATA drives (Master and Slave) to be connected to FireWire 800 (IEEE 1394b) serial bus in a plug-and-play fashion.

FWB-IDE02 provides RAID (Span) function. FWB-IDE02 is aimed at higher-speed multimedia file storage application. FWB-IDE02 provides the perfect solution for video or image file storage and transferring of data between computers using ATA devices.

Complies with T13's ATA/ATAPI-7 Draft Specification:

- PIO Mode 0-4
- DMA Mode 0-2
- Ultra DMA Mode 2, 4, 5, 6
- Supports 48-bit addressing for large hard drives (>128GB).

IEEE 1394b Bus Transfer Rate:

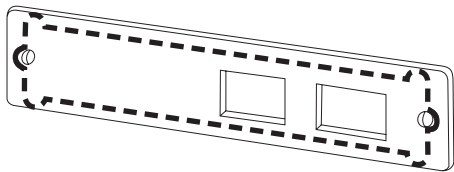
100/200/400/800 Mbps

Physical Dimensions:

3.33" x 2.08" (8.45cm x 5.28cm)

Form Factor:

FWB-IDE02 was designed to have SCSI 150pin connector form factor so it's idea for SCSI case.



IEEE 1394 Special Features:

1394 Repeater Function: Yes!

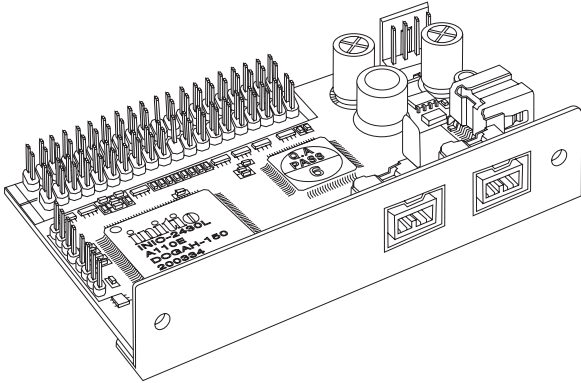
The PHY (TSB81BA3) can be powered by IEEE 1394 bus power to act as a repeater.

IEEE 1394 Bus Power:

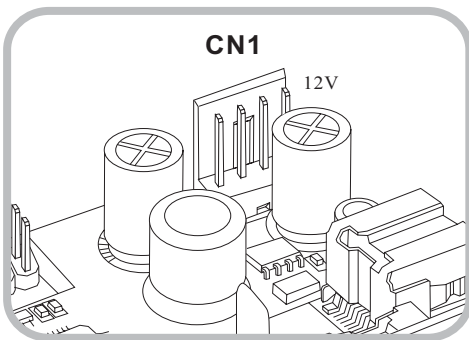
It might take the power from the IEEE 1394 Bus for the PHY (TSB81BA3) and will provide DC 11.5V bus power to the IEEE 1394 Bus.

Overview

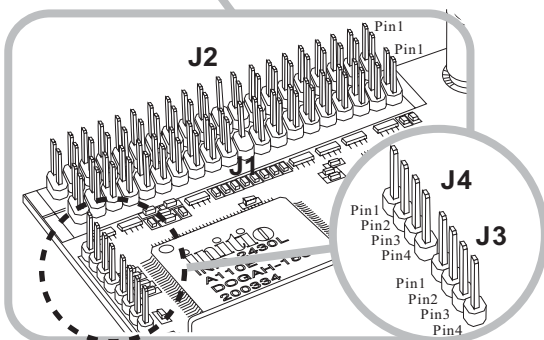
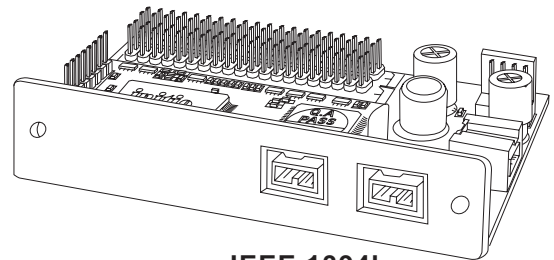
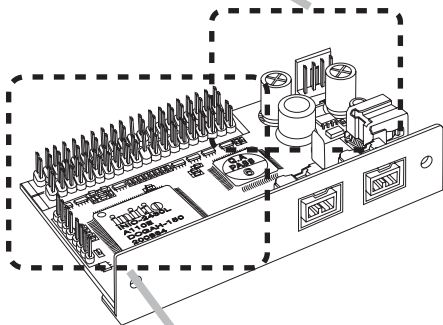
FWB-IDE02 is a FireWire 800 (IEEE 1394b) to IDE (ATA/ATAPI) bridge board. featuring initio inic-2430L FireWire 800 (IEEE 1394b) to IDE (ATA/ATAPI) Bridge Controller and TI's new IEEE 1394b 800Mbps PHY (TSB81BA3)



Connectors:



CN1: Floppy Drive like mini-4pin Power Connector
Supply DC 12V power.
FWB-IDE02 is a Self-powered bridge board and need DC 12V power.



J4: IDE activity LED (4pin Header)
Primary IDE activity LED: pin1(+) ~ pin2 (-)
Secondary IDE activity LED: pin3(+) ~ pin4 (-)

J3: Power and IDE activity LED (4pin Header)
IDE activity LED: pin1(+) ~ pin2 (-)
Power LED: pin3(+) ~ pin4 (-)

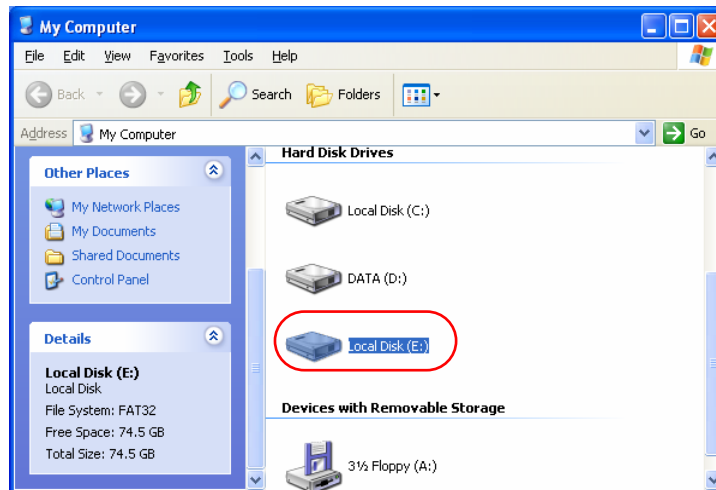
J2: Secondary IDE Connector (40pin Header)

J1: Primary IDE Connector (40pin Header)

IEEE 1394b Connector: External X 2 (Biligual-9pin) and Internal X 1 (Biligual-9pin)

Windows 1394 Driver Installation

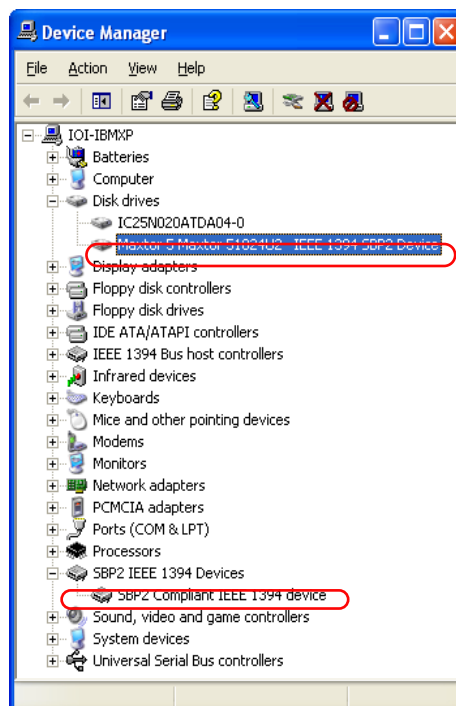
You can connect 1394 HDD to a Computer without turning off the Computer or 1394 HDD. When the 1394 HDD is connected through FireWire(1394a) Connection, Windows XP will detect the hardware and install the driver automatically. If the installation was successful, a drive icon will be added to [**MyComputer**].



To verify the 1394 storage driver installation, follow the steps below.

1. Click on **Start**, right click on **My Computer**.
2. Click on **Properties**.
3. Click on the **Hardware** tab, and then the **Device Manager** button.
4. Double-click **Disk drives**.

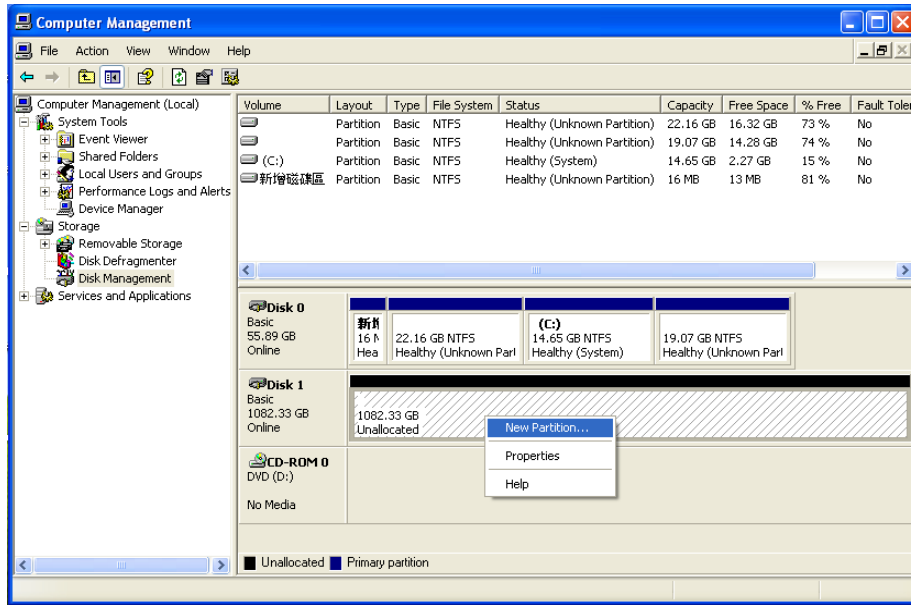
*If there is a HDD model name and "IEEE 1394 SPB2 Device" String without any yellow "!" marks or red "X" marks under the "Disk drives" as shown, the 1394 storage driver is installed correctly.



Disk Management Program

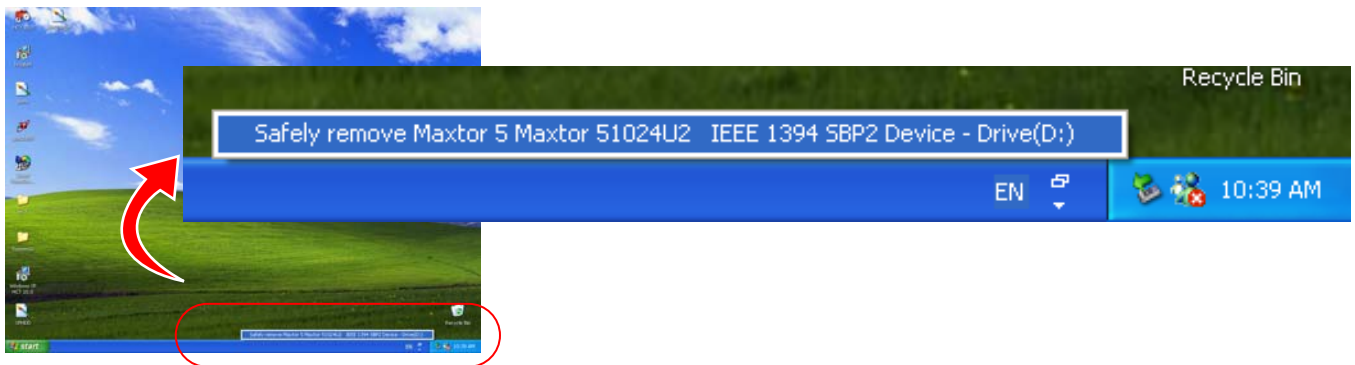
- Right click on "My Computer" and choose Management.
- Select Disk Management
- Choose the drive you want to format and right click on it for further command (Choose New partition).
- Follow the partition Wizard.

 Be aware that this will destroy all your existing data on the drive, so make sure you have a backup.



Removing the 1394 Device

When you click on the "Unplug and Eject Hardware" icon on the task tray, a pop-up menu similar to the following will appear. Click on "Safely remove (IDE device model name) IEEE 1394 SBP2 Device".



*When the message box saying "The '(IDE device model name) IEEE 1394 SBP2 Device' device can now be safely removed from the system." appears. You have now removed the 1394 device from the PC safely.

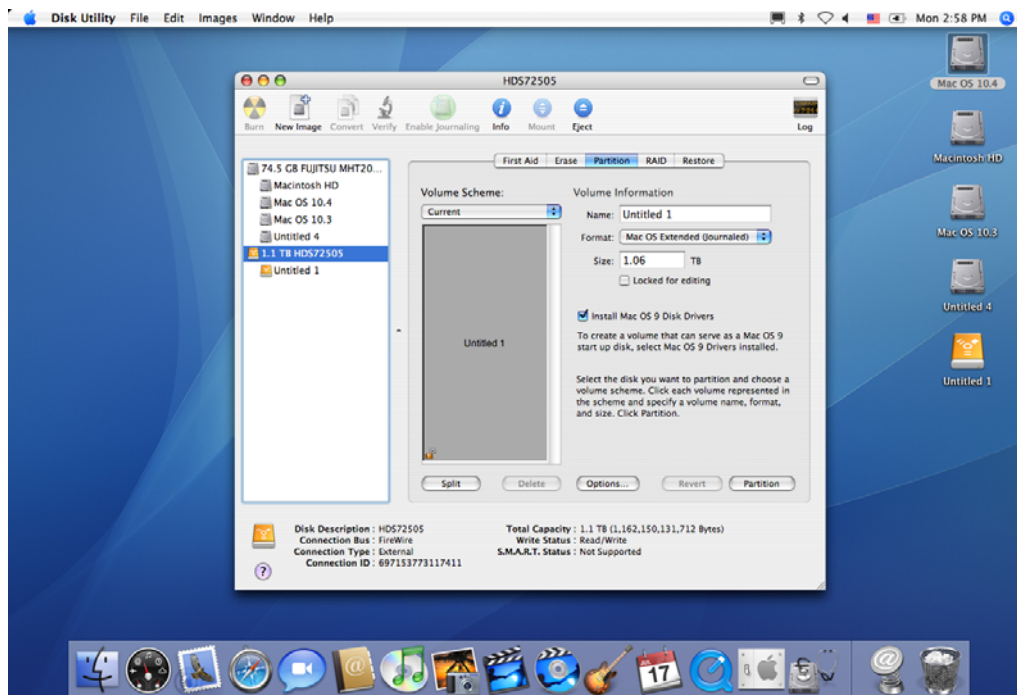


Disk running on Mac

In Mac OS x, the external hard disk can be partitioned and format by using the disk management.

- Choose " disk tool " from Disk Utility.
- Choosing the extended hard disk you need to do partitioning and formatting according to your demand.

 Be aware that this will destroy all your existing data on the drive, so make sure you have a backup.



RAID Configuration Guide for Windows System

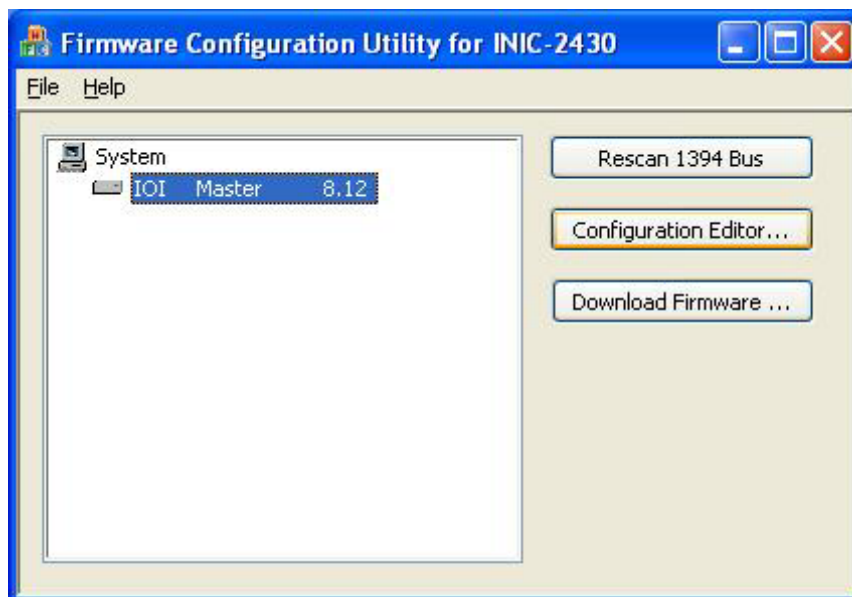
Step 1: Install FWB-IDE02 & hard disk drives to External Enclosure .

Step 2: Connect power and IEEE-1394 cable. Check that Windows detects your hard disk drives. (Maximum 4 HDDs)

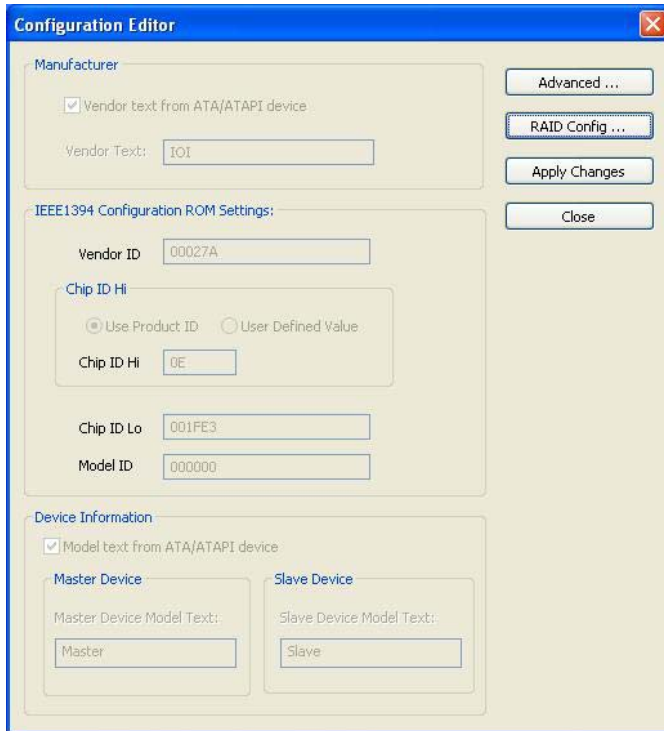
Step 3: Run FWConfig.exe configuration utility.



Step 4: Click on “Configuration Editor..” button.



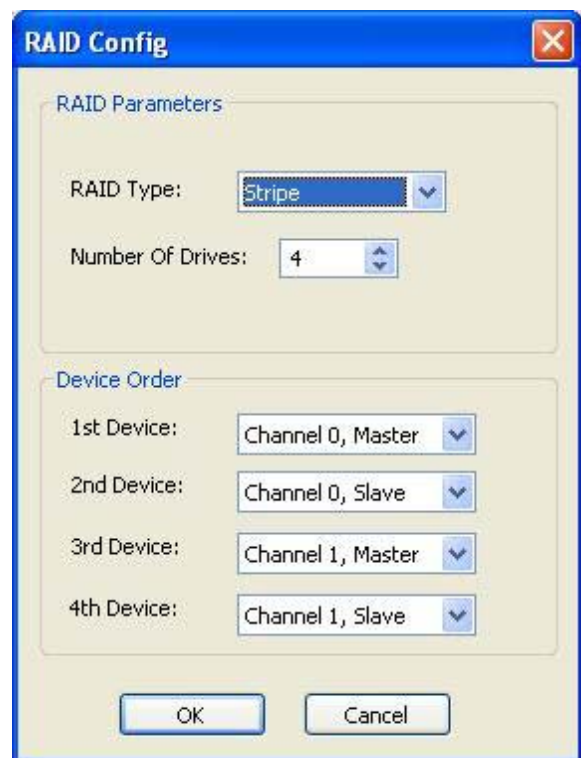
Step 5: Click on “RAID Config...” button.



Step 6: Select “RAID type”, Number of Devices”, and “Device Order” and click on “OK”

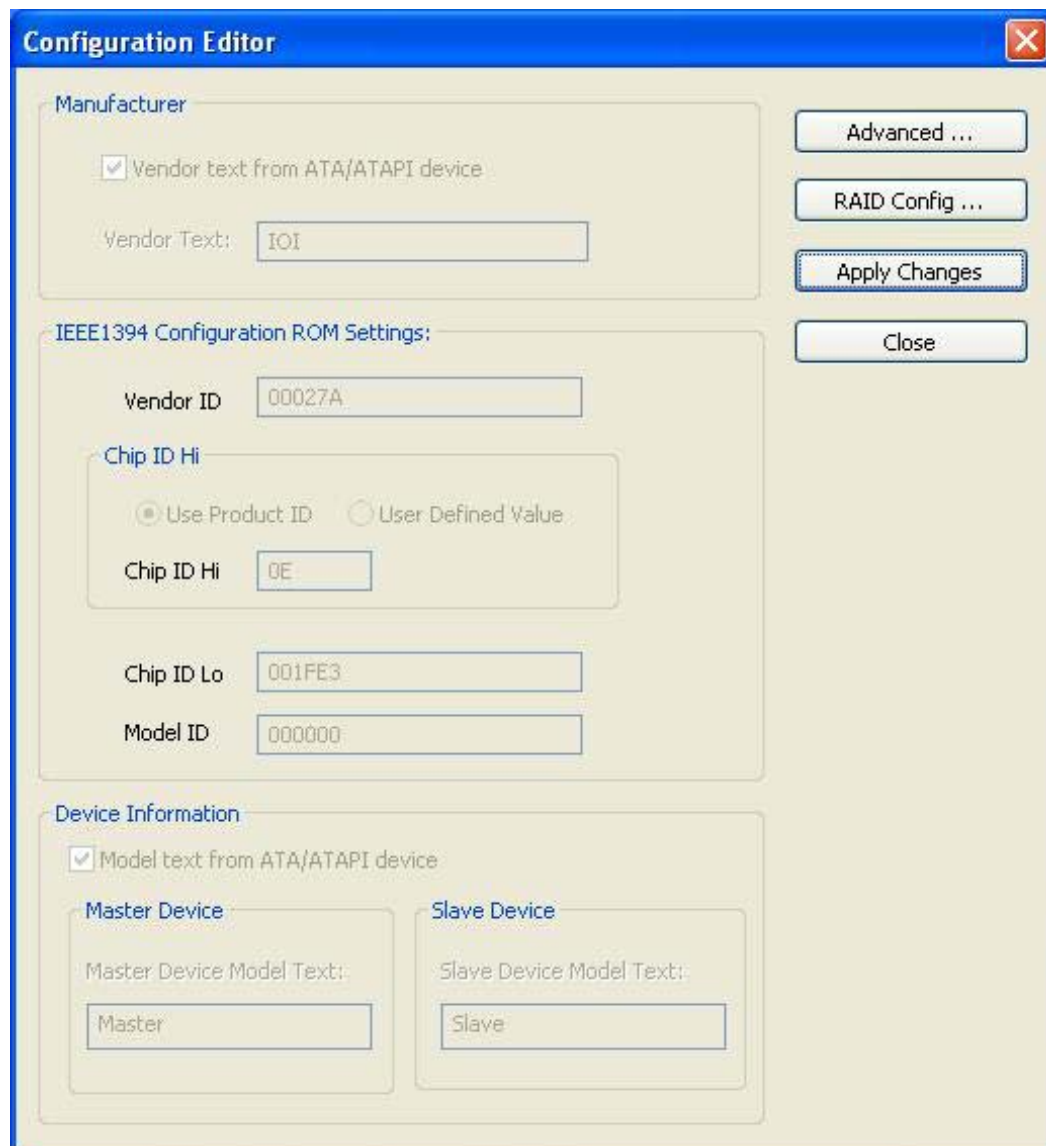


or



Span: for disks with different capacity. Stripe: for disks with same capacity.

Step 7: Click on “Apply changes” button to update the configuration.



Step 8: Click on “OK” button.



Step 9: Power off and on the External Enclosure for new firmware to be activated

Step10: RAID configuration is completed. You are ready to use.

RAID Configuration Guide for Mac System

Step 1: Install FWB-IDE02 & hard disk drives to External Enclosure.

Step 2: Connect power and IEEE-1394 cable. Check that system detects your hard disk drives. (Maximum 4 HDDs)

Step 3: Run FWUpdater2430 configuration utility.



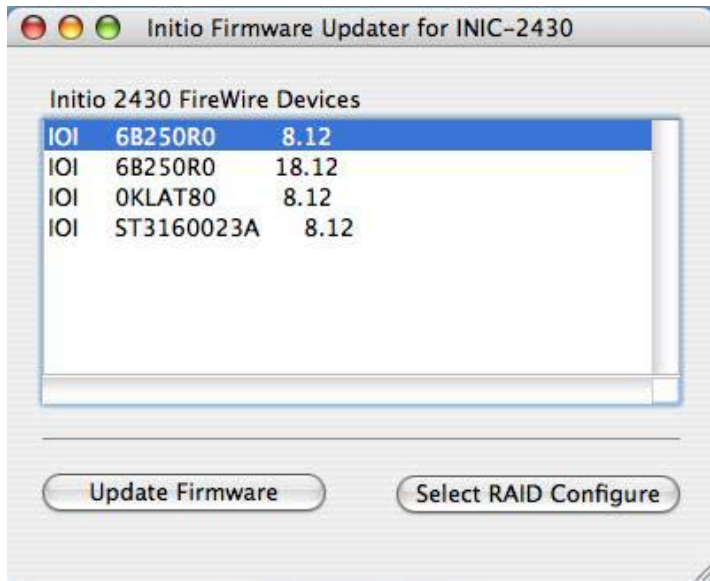
Step 4: Type your name and password. It is with administrator privilege.



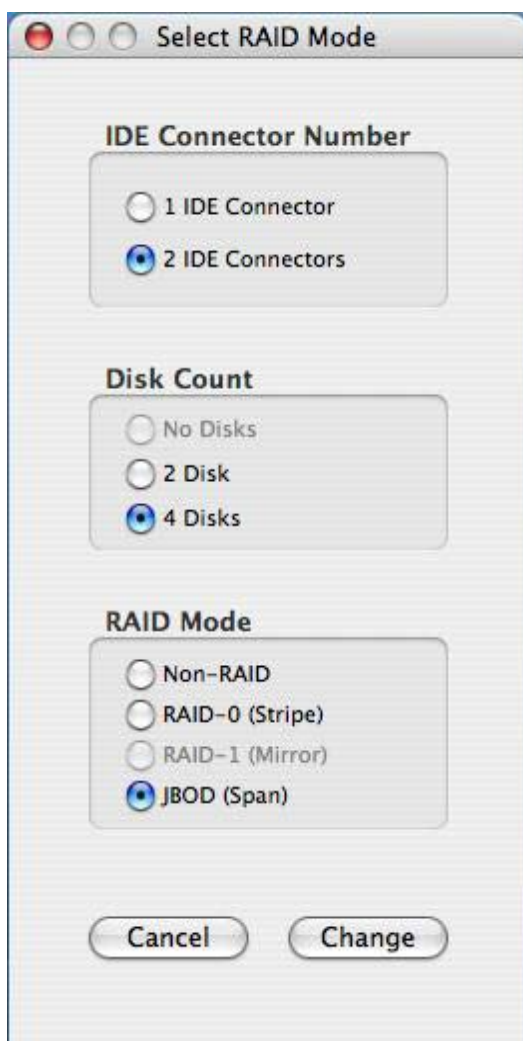
Step 5: Unplug all FireWire devices except the External Enclosure you want to update.
If you already did so, click "OK"..



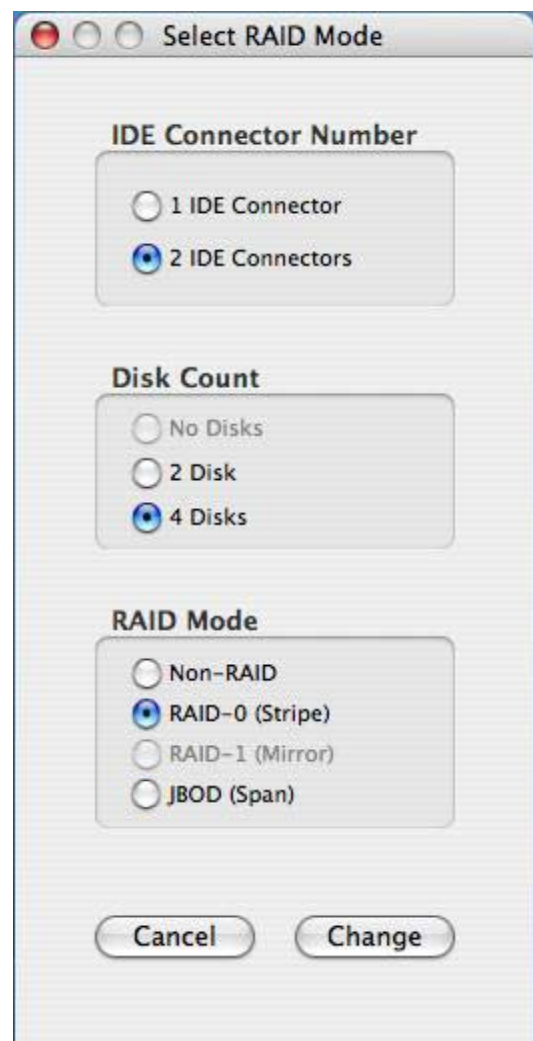
Step 6: Select one of FireWire devices and click "Select RAID Configure"..



Step 7: Select RAID mode and click "Change".

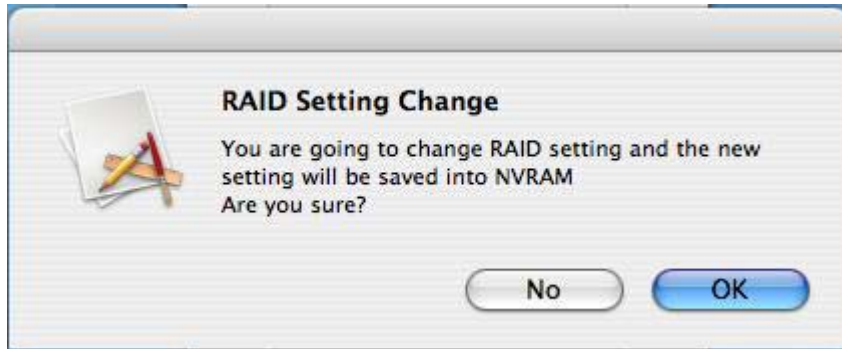


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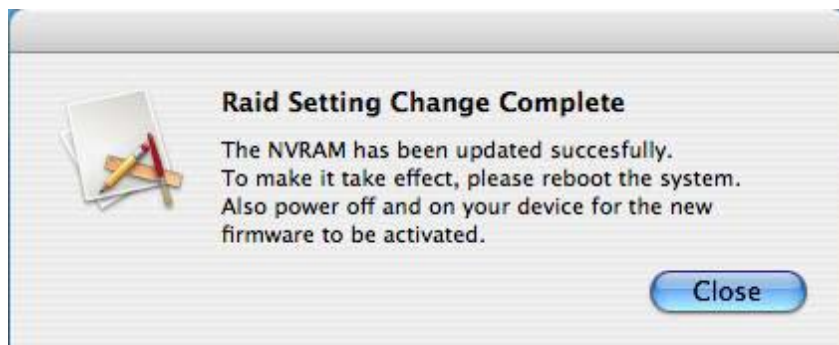


Span: for disks with different capacity. Stripe: for disks with same capacity.

Step 8: Click "OK" .



Step 9: Reboot the system and power off and on the External Enclosure for new firmware to be activated.



Step10: RAID configuration is completed. You are ready to use.