

**FireWire /Ultra Wide SCSI PCI Board
for Macintosh**

PCIFS3P

User Guide

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 **RATOC Systems, Inc.**

PCIFS3P

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1.Introduction

This User Guide describes how to install,use,and troubleshoot the RATO C PCIFS3P FireWire/Ultra Wide SCSI PCI Board.(called the PCIFS3P in this User Guide)

1-1.System Requirements

- * MacOS 8.6,MacOS 9.0 or MacOS 9.0.4
- * PowerMacintosh G3
DT233,DT266,DT300,MT266,MT300,MT333
- * PowerMacintosh
7300,7600,8500,8600,9500,9600series(604e)
- * One free PCI expansion slot

1-2.Restrictions

- * To capture full frame rate DV movie,you need high performance HDDs and sufficient capacity.
DV data requires 3.6 MBytes disk space per second.
We strongly recommend you use more than 10MB/sec. sustained data write rate HDDs.
To capture full frame rate or non-dropped frame DV movie to FireWire HDDs directly,
you need High-Speed G3 processor more than 266 MHz.
- * MacOS restricts each file size up to 2GBytes(9 minutes) DV movie.

1-3.Cautions

- *Never attempt to disassemble the PCI Board.
- *Do not bend,drop or strike the PCI Board and cable,or subject it to heavy pressure.
- *Information in this document is subject to change without notice.
- *If you have any questions or find errors in this guide, do not hesitate to let us know.

1.Introduction

1-4.Package

Make sure there are the following items in the PCIFS3P package.

- *PCIFS3 FireWire/Ultra Wide SCSI PCI board
- *PCIFS3 software CD-ROM (The versions below are subject to change without notice.)
 - REX-PCIFW Installer
 - REX-PCIFW Driver1.7
 - FireWire Enalber 2.2.2
 - FireWire Support 2.2.2
 - PCI33 Driver
 - SCSI Configuration Utility
 - QuickTime 4
 - SoftRAID RAID software and document file
 - EditDV Unplugged 1.6.1 (45 days trial version)
- *DV 4p to DV 4p cable(6 feet)
- *3-position Ultra Wide 68pin internal cable
- *Very high-density 68pin to high-density 50pin SCSI cable
- *HDD power connector extended cable
- *User manual(This document)
- *Software license agreement

NOTE:

If any of these items are missing from the PCIFS3P package, contact your supplier immediately.

2.Set up

2-1.Quick Install Guide

To install quickly, follow the steps below.

1.Install the PCIFS3P PCI Board into a PCI slot.(Refer to page 7)

2.Install the driver for the PCIFS3P(Refer to page 8).

3.Open **Extension Manager** window from **Control Panel**.

4.Check following Drivers.

-**QuickTime FireWire DV Enabler**

-**QuickTime FireWire DV Support**

5.If you could not find **QuickTime FireWire DV support or Enabler**,you have to install **QuickTime 4.0** (Refer to page 10).

6.Restart your Macintosh.

7.Connect DVCAM and check it.(Refer to page 12)

8.Turn off your Macintosh and SCSI devices.(Refer to page 13)

9.Connect SCSI devices to the PCIFS3P.(Refer to page 13)

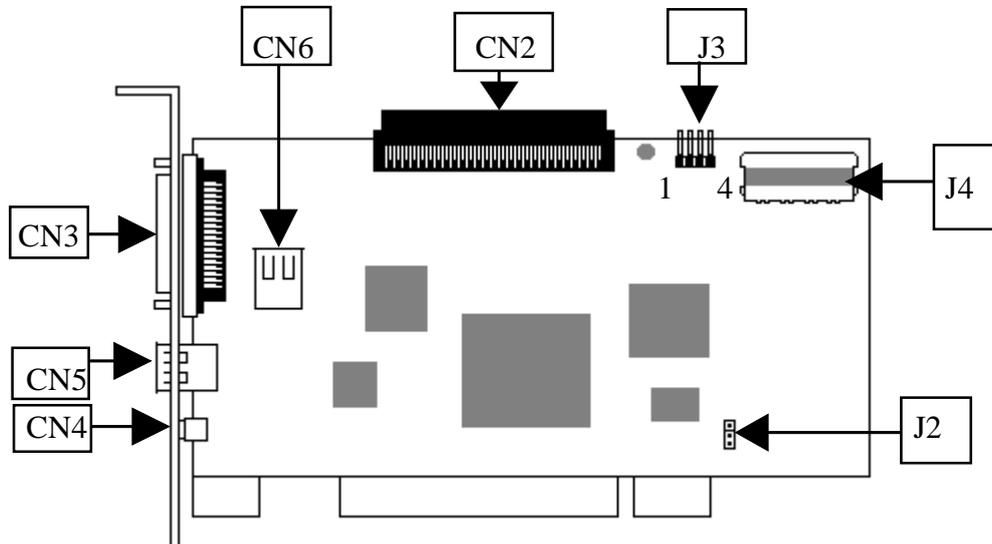
10.If you would like to disable disconnect function,disable parity check,change transfer rate because of the restriction of your SCSI devices,start SCSI Configuration Utility(Refer to page 17)

To have the detailed instructions, go to the next page.

2.Setup

2-2.Before installing the PCIFS3P into a PCI slot

Before installing the PCIFS3P into a PCI slot, understand the usage of connectors on the PCIFS3P.

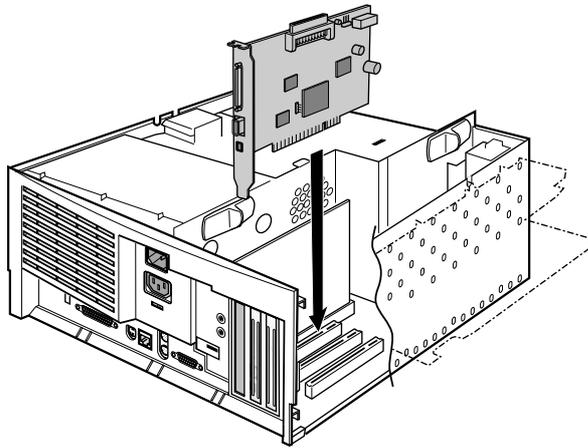


Connector	Usage
CN3	Very High Density 68pin connector for external devices
CN2	High Density 68pin connector for internal devices
CN5	FireWire 6pin port for external FireWire devices
CN4	FireWire 4pin port for external FireWire devices
CN6	FireWire 6pin port for internal FireWire devices
J3	Connector for SCSI Bus busy indicator When you use only 2 pins of it, use pin No.3 and 4. Pin No.1 and No.4 is power source. Pin No.2 and No.3 is signal(Active Low).
J2	BIOS ON/OFF,must be set always ON
J4	FireWire Cable Power Connector

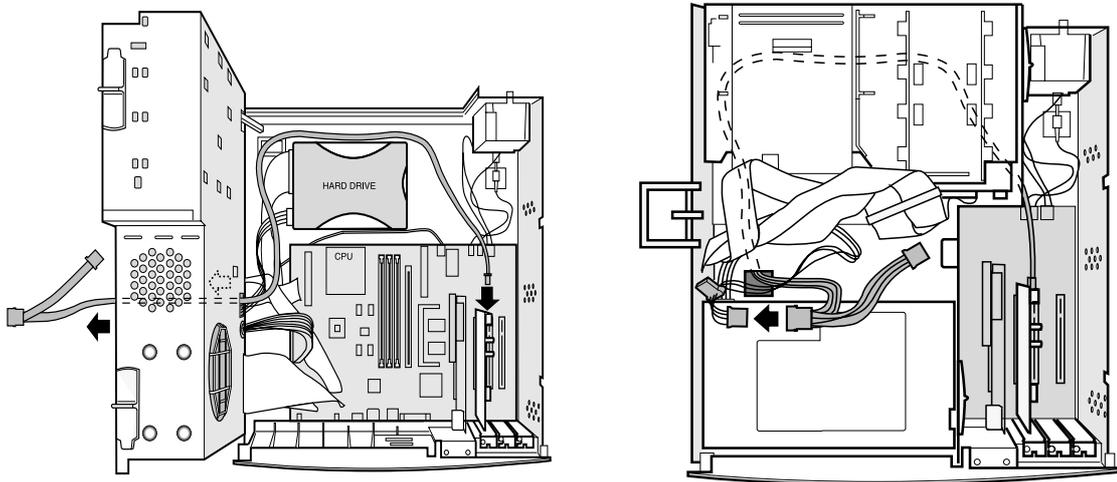
You have to connect between this **J4 connector** and a **HDD power connector** with the **HDD power connector extended cable** in this package to use cable-powered device such as FireWire portable HDDs, CCD cameras, etc.

2-3.Install the PCIFS3P PCI Board into a PCI slot

- 1)Turn off your Macintosh and remove the computer cover.
(Refer to the manual that accompanied your Macintosh)



- 2)Select a free PCI expansion slot.
- 3)Carefully install the PCIFS3P by firmly pressing the PCI board into the PCI expansion slot.
- 4)Extend the **HDD power connector of your Macintosh** with the **HDD power connector extended cable** in this package and connect it to the **J4 connector** on the PCIFS3P like shown below.



You have to connect this cable to use cable-powered type FireWire devices such as portable HDDs, CCD cameras those require cable power source.

- 5)If you are going to connect your SCSI devices to the PCIFS3P, refer to page 13.

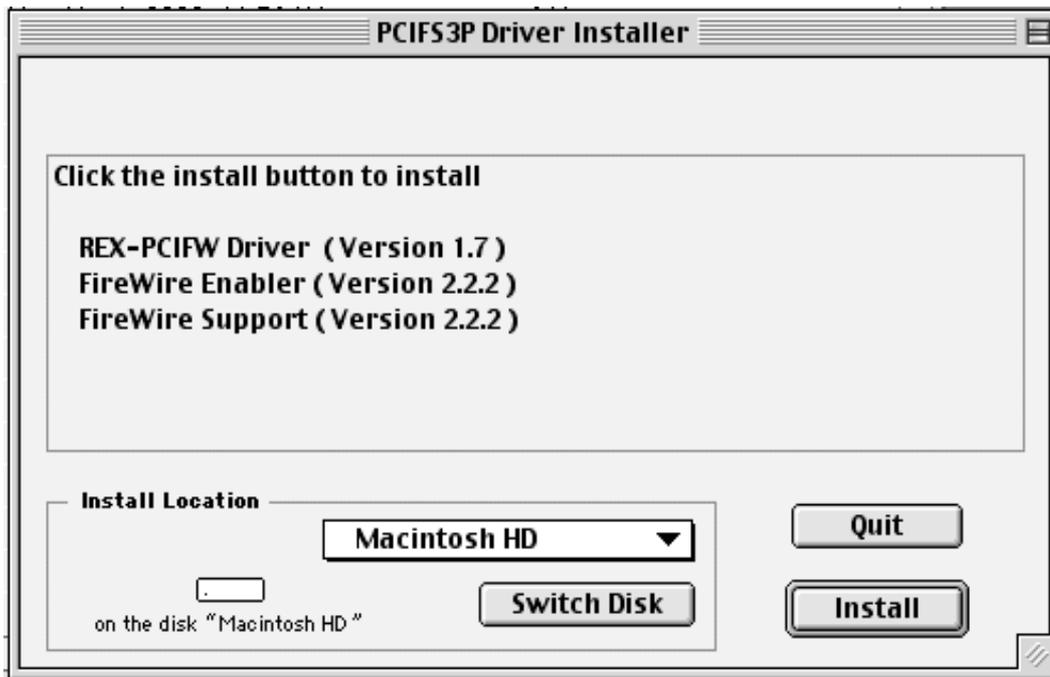
2.Setup

2-4.Install the driver for the PCIFS3P

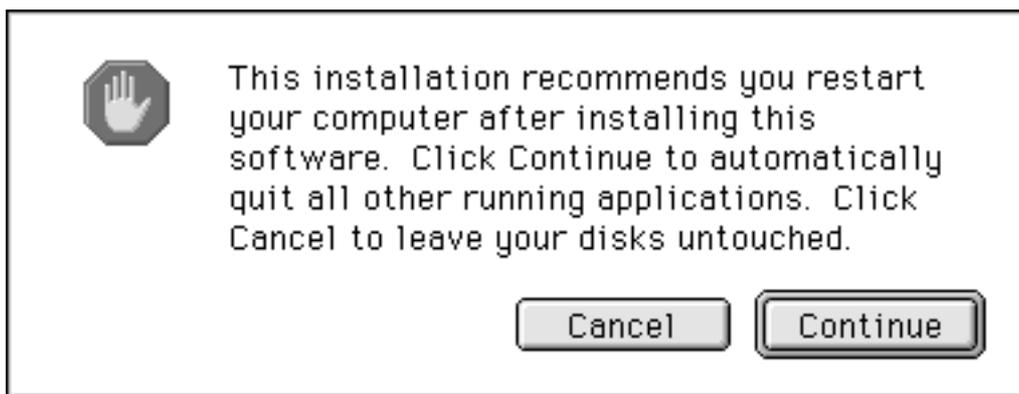
You have to install **the driver for FireWire.**

Follow the steps below.

- 1)Insert the CD-ROM in this package into the CD-ROM drive.
After you see the icon of the CD-ROM mounted on the desktop,open it.
- 2)Open **PCIFS3 Driver** folder.
- 3)Double-click the **Installer** icon.
- 4)You will see the screen below.
Click the [**Install**] button.



- 5)You will see the screen below. Click the [**Continue**] button.



- 6) You will see the screen below.
Click the [**Restart**] button.



- 7) If you succeed to install **the driver for the PCIFS3P**,
you can find **the three files below** in the **Extensions** folder.

- REX-PCIFW Driver 1.7**
- FireWire Enabler 2.2.2**
- FireWire Support 2.2.2**

NOTE: The revision number of the files above are subject to change without notice
for software updates.

2.Setup

2-5.Install QuickTime 4

If there aren't **QuickTime FireWire DV Support** and **QuickTime FireWire DV Enabler** in the **Extension Manager** window ,you have to install **QuickTime 4**.

Follow the steps below.

1)You will see the screen below. Click the [**Continue**] button.

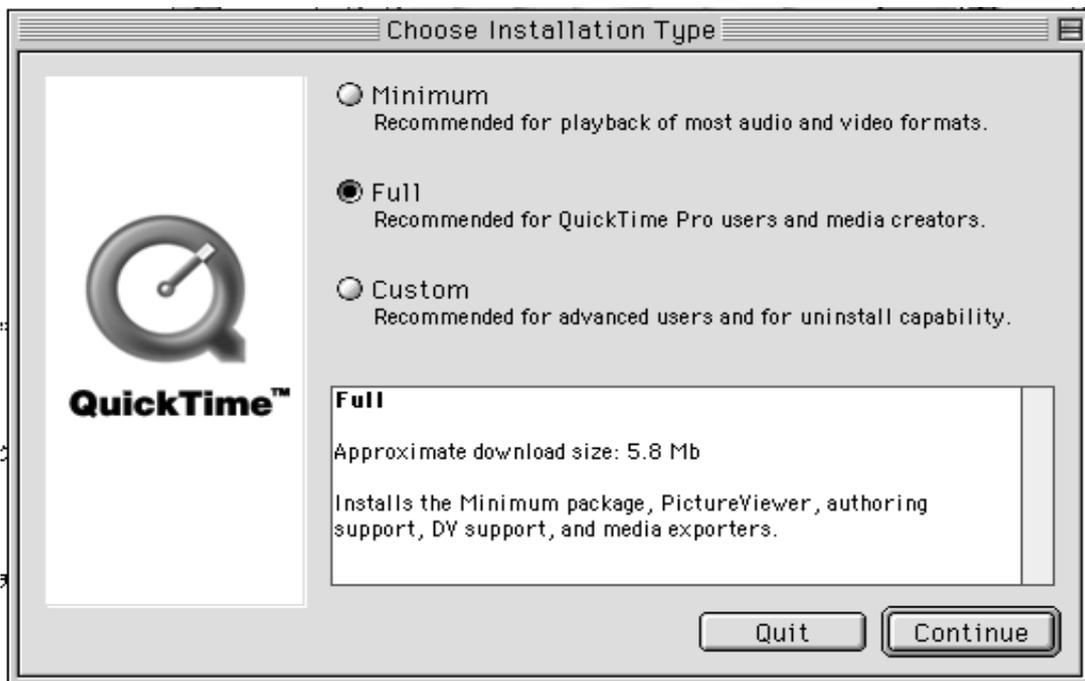


2)Open **QuickTime4** folder in the CD-ROM. Double-click Quicktime installer icon.

You will see the screen below. Click the [**Agree**] button to install **QuickTime**.



3) You will see the screen below. Select **[Full]** and click the **[Continue]** button.



4) Finally restart your Macintosh.

5) If you succeed to install **QuickTime**, you can find the following two items below in the **Extensions** folder.

- **QuickTime FireWire DV support**
- **QuickTime FireWire DV Enabler**

2.Setup

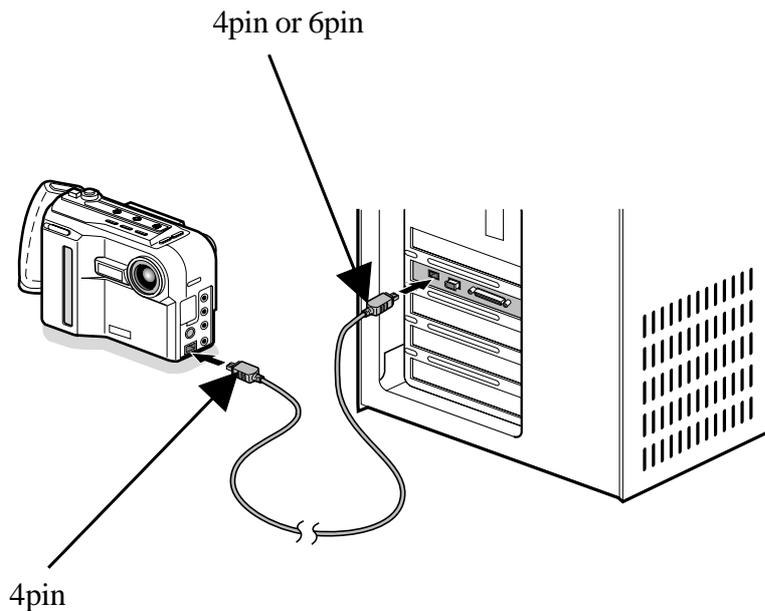
2-6.Connecting DVCAMs

1)Connect the DVCAM to the PCIFS3P with the FireWire cable.

You can connect the DVCAM without turning off the DVCAM or the Macintosh.

You can hot plug the DVCAM.

Refer to the manual that accompanied your DVCAM for the location of the FireWire connector.



You can use 4pin-6pin cable or 4pin-4pin FireWire cable.

2)Check if the DVCAM is recognized.

Follow the steps below.

1.Start **Apple Video Player** in your system.

2.If you can preview with **Apple Video Player**, the DVCAM is recognized.

But note the **Apple Video Player** can not capture sound and recording function does not work.

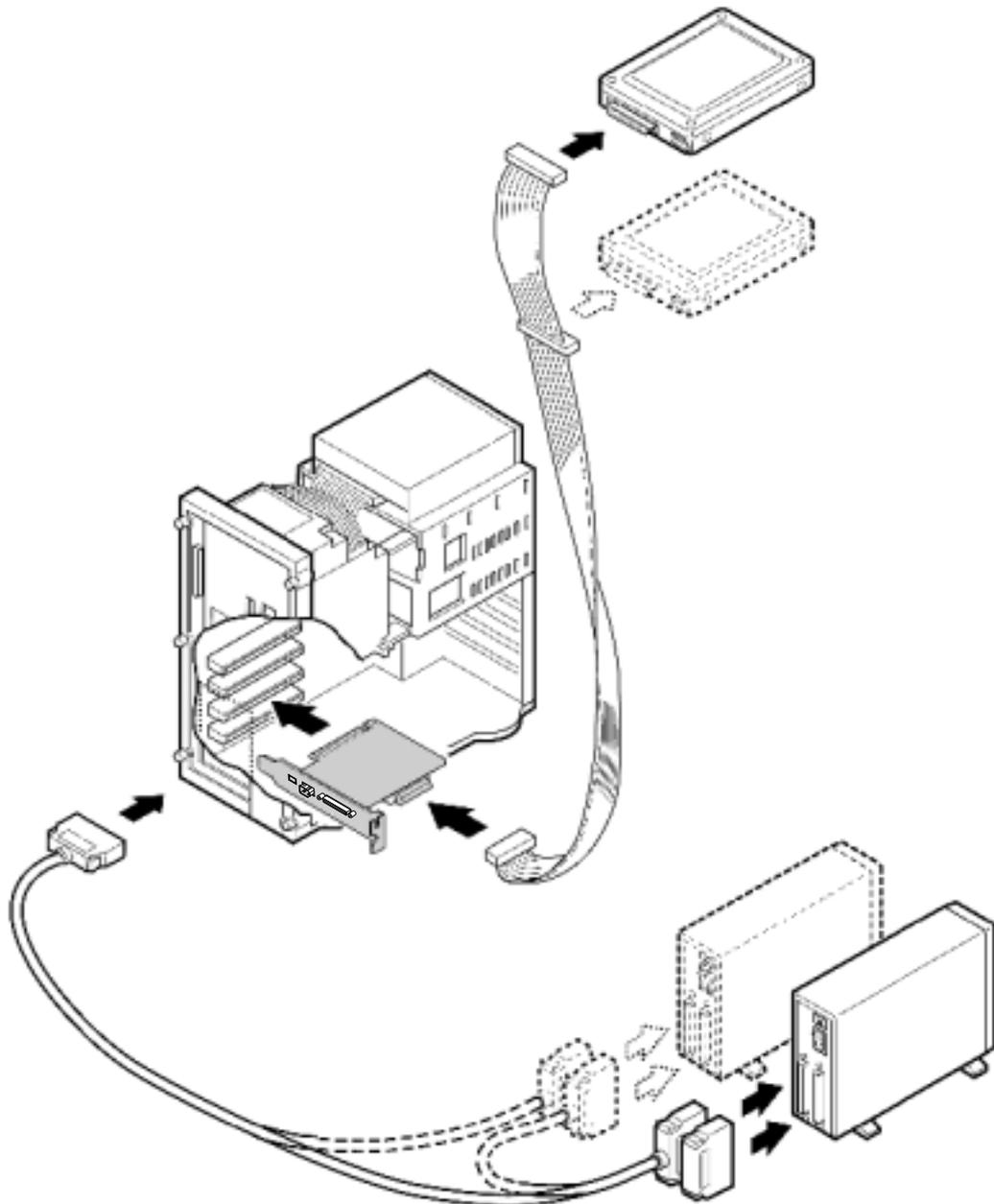
Now you can do a video editing with EditDV unplugged.

If you install the EditDV unplugged,insert the CD-ROM and start installer.

NOTE:After installation of EditDV,**QuickTime FireWire DV Enabler** and **QuickTime FireWire DV Support** are set inactive mode.EditDV installer set these QuickTime drivers inactive mode automatically. You can not use **Apple Video Player** after installation of EditDV.

2-7.Connecting SCSI devices to the PCIFS3P

- 1)Turn off your Macintosh and SCSI devices.
- 2)Connect the first (or only) SCSI device to the PCIFS3P with the SCSI cable in this package which fits the SCSI connector on the back of the SCSI device.
- 3)You can connect up to 15 SCSI devices by daisy-chaining them to the first SCSI device. You can use the internal 68pin connector and external 68pin connector simultaneously, but you can connect up to 15 SCSI devices including internal devices and external ones.



2.Setup

4)Be sure that each SCSI device has a unique SCSI ID which is ranging from 0 to 15. PCIFS3P is preset to SCSI ID 7, which gives it the highest priority on the SCSI bus. If there is the same SCSI ID on the SCSI bus,change the SCSI ID to avoid conflict. You can usually change the SCSI ID by changing a switch on the back of the SCSI device. For more infomation,refer to the SCSI device manual.

5)Terminators have to be attached (or enabled) on the SCSI devices at the physical both ends of the SCSI bus line.

Terminate the last (or only) SCSI device connected to the PCIFS3P.

If you are not sure how to terminate the SCSI device,refer to the SCSI device manual.

Please note external and internal terminators are not included in this package.

If you use only internal SCSI devices or only external SCSI devices, the PCIFS3P means one end of the SCSI bus and the on-board terminator on the PCIFS3P will work automatically if you set **Automatic** at SCSI terminators in **SCSI configuration utility**.(This is default setting.)

As for **SCSI configuration utility**, refer to page 17.

- (1)If you use only **internal Ultra Wide SCSI devices**,
- (2)If you use only **external Ultra Wide SCSI devices**,
- (3)If you use only **external Narrow SCSI devices**,
- (4)If you use **external Ultra Wide SCSI devices and internal Ultra Wide SCSI devices**,

the on-board terminator on the PCIFS3P will work automatically if you set **Automatic** at SCSI terminators in **SCSI configuration utility**.(This is default setting.)

Only when you connect simultaneously external Narrow SCSI devices and internal Ultra Wide SCSI devices,set **High:ON/Low:OFF** at SCSI terminators in **SCSI configuration utility**. Refer to page 19.

(Cautions)

If you connect SCSI devices without embeded terminator to the end of SCSI bus, you have to purchase terminators at stores.

6) Be sure that at least one SCSI device provides SCSI bus termination power.

If you are not sure whether the SCSI device provides termination power, refer to the SCSI device manual.

7) Turn on all SCSI devices.

8) Turn on your Macintosh.

If you have to disable disconnect function, disable parity function, change transfer rate because of the restriction of your SCSI devices, start SCSI Configuration Utility (Refer to page 17)

When you use removable SCSI disks such as Jazz, Zip, MOs, you have to use formatting/mounting utility software which comes with the device.

2.Setup

(Note)*Number of Devices and total length of cabling*

When you connect only Wide SCSI devices,you can connect up to 15 SCSI devices theoretically, and when you connect only Narrow SCSI devices,you can connect up to 7 SCSI devices theoretically.You have to use cables of which impedance are the same as 90 .
The total length of cabling on the SCSI bus is restricted as follows.

case1)There is at least one Ultra Wide device or Ultra SCSI device on the SCSI bus.

The number of SCSI devices	The total maximum length of cabling on the SCSI bus
1 - 3 devices	3 m(10 ft.)
4 - 15 devices	1.5 m(5 ft.)

case2)The devices connected to the PCIFS3P are all FAST SCSI devices.

The number of SCSI devices	The total maximum length of cabling on the SCSI bus
1 - 7 devices	3 m(10 ft.)

The table listed above is theoretical and the actual total length of cabling may get influenced by the performance of SCSI devices and SCSI cables.

If you would like to purchase SCSI connector convertor,SCSI cable convertor or FireWire cable, access to the web site(www.firewireshop.com).

2-8.SCSI Configuration Utility

The support software CD-ROM includes SCSI configuration utility. When you have no choice but to disable disconnect function, disable parity function, change transfer rate because of the restriction of your SCSI devices, you can set those settings with this SCSI Configuration Utility.

Before starting this Utility, be sure that all programs are closed and all SCSI devices are turned off.

To use the SCSI Configuration Utility, follow the steps below.

- 1) Close all other programs running.
- 2) Check to see all SCSI devices connected to the PCIF53P are turned off.
- 3) Insert the support software CD-ROM into your CD-ROM drive.
Double-click the CD-ROM icon.
- 4) Double-click **the SCSI Configuration Utility from CD-ROM.**
Please note **you have to get started with the SCSI Configuration Utility from CD-ROM.**
Don't install it into your HDD.
- 5) You will see the screen below when you start **SCSI Configuration Utility.**



Click the **[OK]** button.

2.Setup

6) You will see the screen below.

Host SCSI ID	Reset Recovering	Burst transfer	Parity
7	5	Enable	Enable

Request Sense Delay (us): 0

ID	Max Transfer (MB/s)	Sync.Transfer Enable	Wide Transfer Enable	Disconnect Enable
ID 0	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 1	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 2	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 3	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 4	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 5	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 6	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 7	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 8	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 9	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 10	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 11	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 12	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 13	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 14	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ID 15	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SCSI Terminators:

- Automatic
- High:0n/Low:0ff
- High:0n/Low:0n
- High:0ff/Low:0ff

Version	Value
SCSI Configuration	1.2
Configuration Driver	1.1
SCSI BIOS	1.6
PCB	23.00

BIOS update:

Erase Write

Default Cancel OK

Configure conditions, following the next page explanations.

Host SCSI ID for PCIFS3P itself:Default is 7. Only when there is a SCSI device which has no choice but to select 7,change this value to another number.

Burst transfer: Default is enabled. Don't change this mode. Don't care.

Parity: Default is enabled. Only when there are SCSI devices without Parity check function,set this function disabled.

Max Transfer(MB/s):You can set Max transfer rate by phasing down this value at the first negotiation between the PCIFS3P and SCSI devices.

Sync. Transfer Enable:Default is enabled. Only when you use asynchronous SCSI devices, set this function disabled.

Wide Transfer Enable:Default is enabled.

When you use narrow SCSI devices,set this function disabled.

Disconnect Enable:Default is enabled. By using disconnect function, performance improves during multitasking operations because SCSI devices which don't use SCSI bus can disconnect the SCSI bus temporarily and the other SCSI devices use the SCSI bus until the SCSI devices need to use the SCSI bus again.If you use RAID function,you have to set disconnect enable.

SCSI terminators:Except when you use external 50pin SCSI devices and internal 68pin SCSI devices simultaneously,set this on-board SCSI terminators **Automatic**.

If you use external 50pin SCSI devices and internal 68pin SCSI devices simultaneously,set this on-board SCSI terminators **High:On/Low:Off**.

Request Sense Delay:When you fail to get your SCSI device working,try to set 15 us.

Version:

SCSI Configuration: version of this utility

Configuration driver:version of the driver

SCSI BIOS:version of the SCSI BIOS in the ROM.

When you update SCSI BIOS,the version number will be up.When the version number shows 0.0, it means there is nothing written in the ROM.

PCB:version of your **Printed Circuit Board** :PCIFS3P

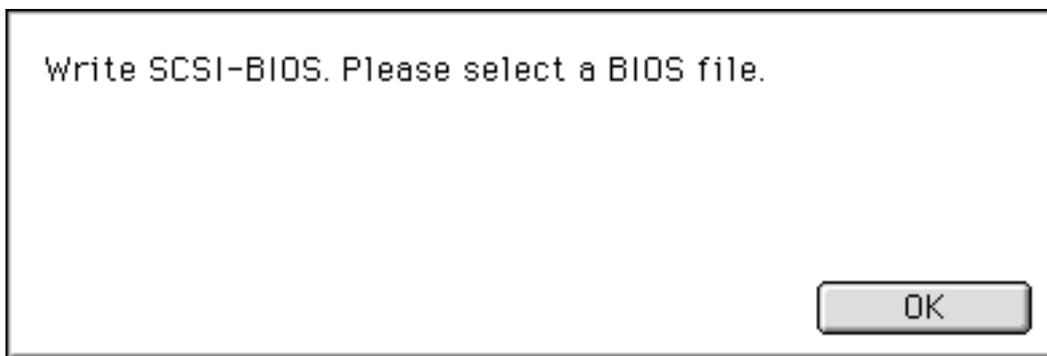
2.Setup

Default: When you click this **Default** button, this SCSI Configuration Utility is set default.

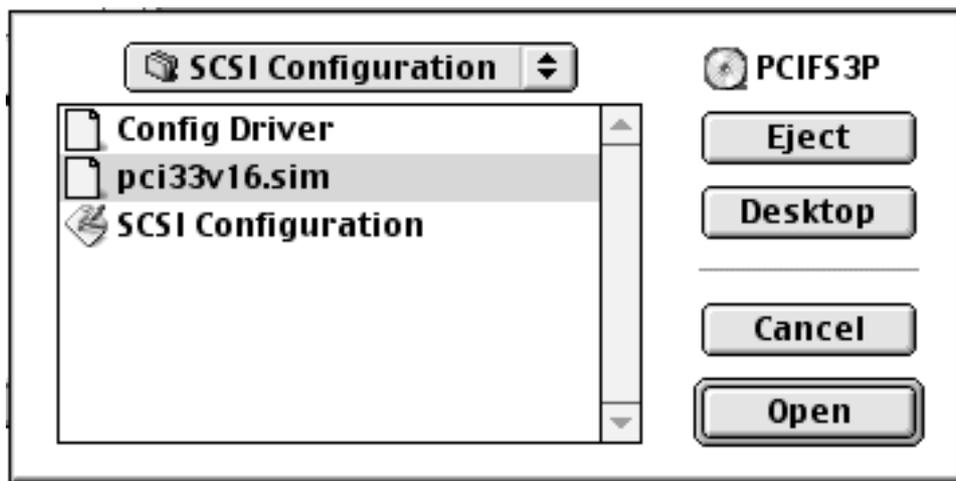
OK: When you click **OK** button, configuration you set on this Utility will be written in the ROM. **To take effect, you have to restart your system.**

Cancel: When you click this **Cancel** button, this utility will close.

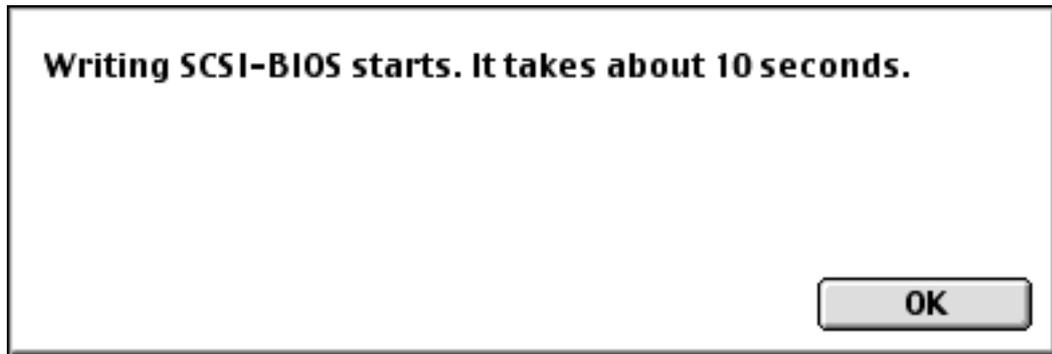
BIOS update: When you click **Write** button to update your BIOS, you will see the screen below. To continue, click **OK** button.



Select the latest BIOS file like shown below. Click [**Open**] button.
You can download the latest BIOS file at our web site.

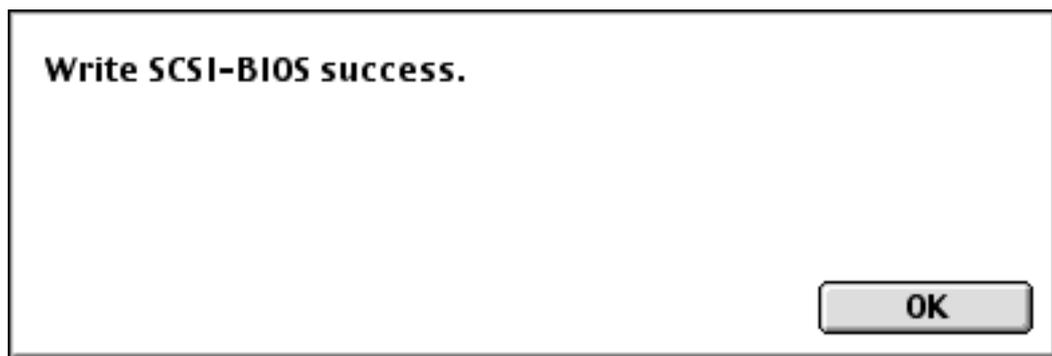


You will see the screen below. Click **[OK]** button.



When this SCSI Configuration Utility completes writing the BIOS to the ROM successfully, you will see the screen below.

Click **[OK]** button and **restart your system.**



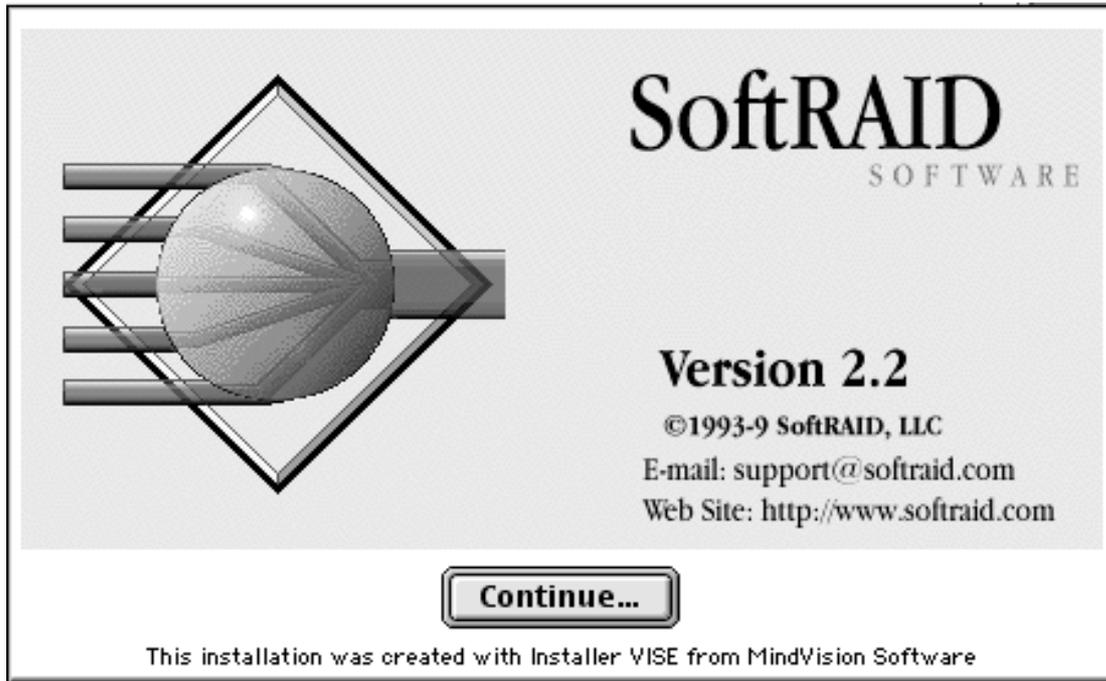
If you can not find the screen above, click **Erase** button on the SCSI Configuration Utility menu and then click **Write** button and follow the steps above again.

2.Setup

2-9.Install RAID Software

If you want to install RAID Software, please follow the steps below.

1) Start Installer for RAID Software. You will see the screen below. Click **Continue** button.



2) You will see the screen below. Click **Accept** button.



3) You will see the screen below. Select **Later** button and go to next step. Later register yourself.

SoftRAID Product Registration

Name:

Title:

Company:

Street:

City: **State/Province:**

ZIP/Postal Code: **Country:**

Daytime Phone: **Fax:**

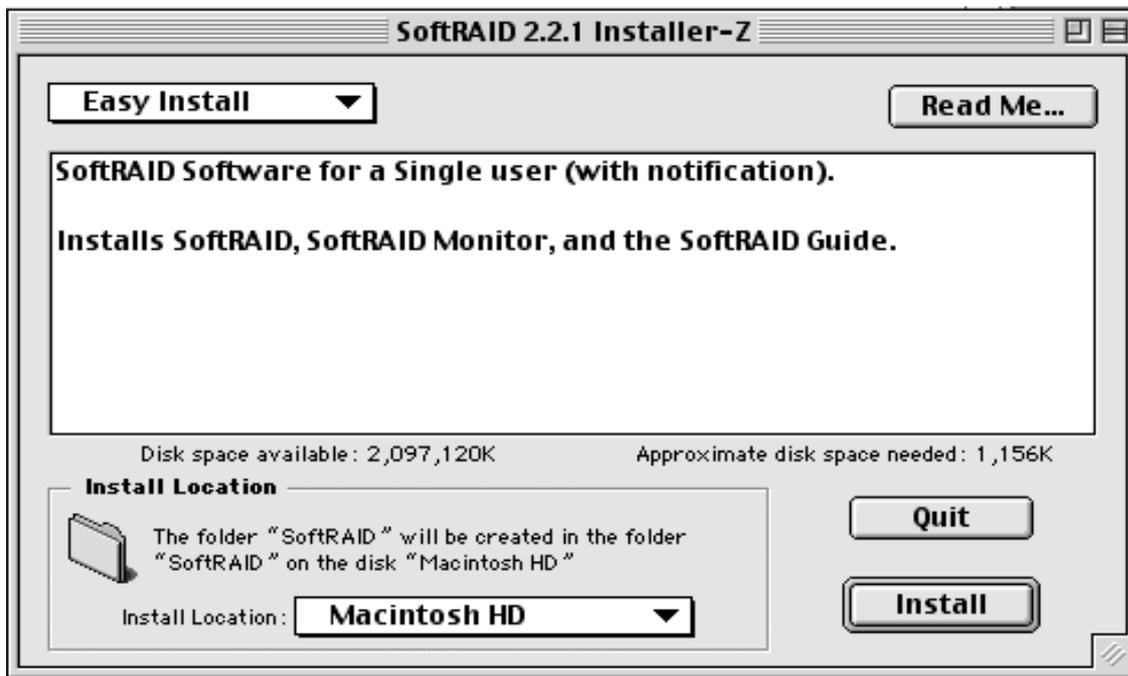
E-Mail Address:

Best SoftRAID Feature:

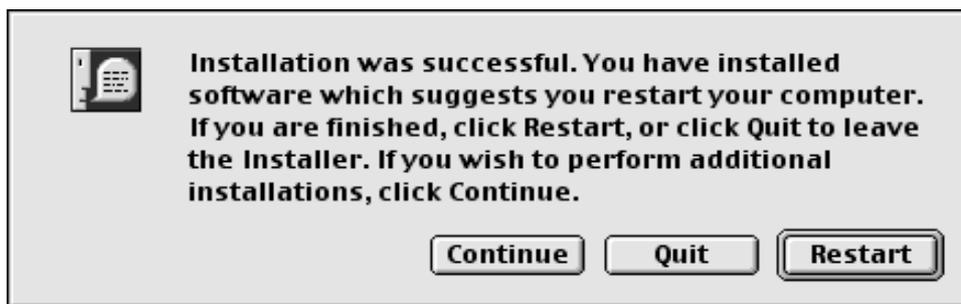
New Feature Suggestion:

2.Setup

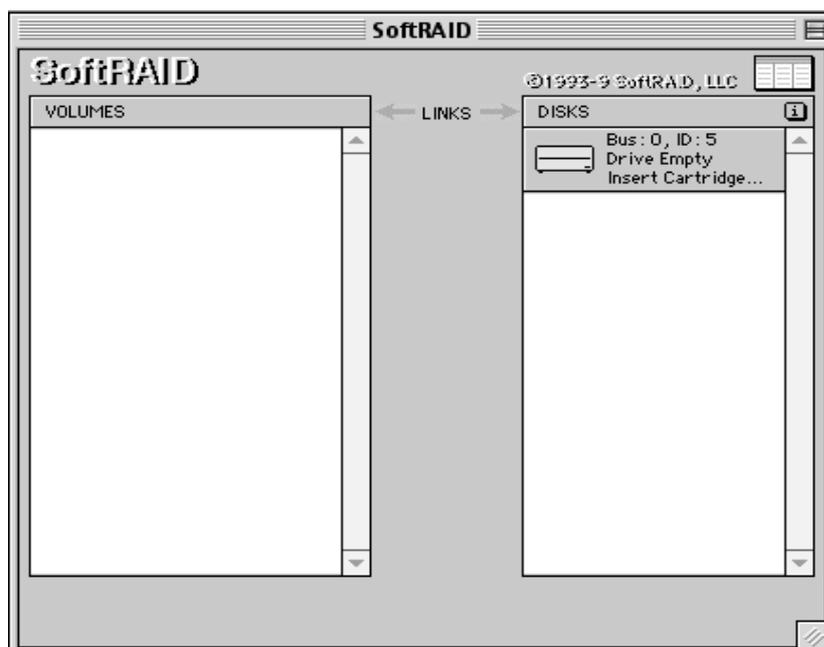
4) You will see the screen below. Click the **[Install]** button.



5) You will see the screen below. Click **[Restart]** button.



6) The screen below appears when you start SoftRAID. To have more information, refer to the help file.



3.FAQ

3-1. Troubleshooting

(1)While transferring data, Macintosh hangs up or don't boot up.

- Solution) 1.Check to see if there is any problem with the SCSI cables and make sure all SCSI cable and power cable are properly connected and all SCSI devices are powered on. You have to use SCSI cables of which impedance are the same.
- 2.Check to see that the terminator is an active terminator.
 - 3.Check to see that total length of the daisy chain is less than 1.5m(5ft.).
(If you use Ultra Wide or Ultra SCSI devices)
 - 4.Try to reduce the SCSI devices connected to the PCIFS3P.
 - 5.If you connect many SCSI devices to the PCIFS3P,auto terminator may not work correctly.In such a case,start SCSI Configuration Utility and configure it manually.

(2)SCSI Configuration Utility will not work properly.

SCSI Configuration Utility hangs up or an error message happens halfway through.

- Solution) If you ignore to turn off all the SCSI devices connected to the PCIFS3P before you start the SCSI Configuration Utility,this problem happens.
Follow the steps below.

- 1.Turn off all the SCSI devices connected to the PCIFS3P.
- 2.Start the SCSI Configuration Utility.
- 3.Change the configuration.
- 4.Click on the OK button and turn off your Macintosh.
- 5.Turn on all the SCSI devices and after that,turn on your Macintosh.

You should start the SCSI Configuration Utility from the CD-ROM.

(3)When you try to print on Adobe Photo Shop, your Macintosh hangs up.

- Solution) We are investigating this trouble.
Try to set standard value at virtual memory size.

3.FAQ

(4)It takes more time to start system,compared to the system without the PCIFS3P.

Solution) It is just because your system goes all the way to recognize the PCIFS3P and all SCSI devices connected to it.

So,it takes additional 20 to 30 seconds to start up, compared to the system without the PCIFS3P. If your system finish starting up within additional 30 seconds, your system has no problem.

(5)You cannot boot OS from the Hard drives connected to the PCIFS3P.

Solution) 1.Make sure disk driver has already installed.

2.If you buy bare Hard drives on the market, the spin up drive jumpers of the Hard drives sometimes need to be set ON(Auto spin).

If the jumpers are set OFF(Spin up delay),the bare Hard drives wait Start Command and after the bare Hard drives receive the Start Command, the bare Hard drives start working.

The PCIFS3P doesn't send the Start Command and the bare Hard drives wait the command which will be never sent by the PCIFS3P and you fail to boot up. This is the reason you have to set the jumpers ON.(Auto-spin).

(6)When you connect old MO devices (M2512A,M2513A) made by Fujitsu to the PCIFS3P, your Macintosh hangs up.

Solution) Macintosh sometimes hang up when you connect such old MOs to the PCIFS3P.

By using SCSI Configuration Utility, set Max transfer speed to 10MB/sec.

Follow the steps below.

1.Turn off all the SCSI devices connected to the PCIFS3P.

2.Start the SCSI Configuration Utility from the CD-ROM.

3.Change the Max transfer speed of FUJITSU MO connected to the PCIFS3P to **10MB/sec** on the SCSI Configuration Utility.

4.Click on the **OK** button.

After succeeding to write the configuration into the ROM,turn off your Macintosh.

5.Turn on all the SCSI devices and after that start your Macintosh.

(7)Image scanner Astra 1200s,1220s made by UMAX cannot be recognized.

Solution) We are investigating and at this stage,these scanners are not compatible.

(8)When you connect printers or scanners made by ALPS, these devices cannot be recognized.

Solution) Follow the steps below.

- 1.Turn off all the SCSI devices connected to the PCIFS3P.
- 2.Start the SCSI Configuration Utility from the CD-ROM.
- 3.Set parity disable.
- 4.Click on the OK button and turn off your Macintosh.
- 5.Turn on all the SCSI devices and after that turn on your Macintosh.

Please note that when you disable parity function, the reliability of data gets lower and we recommend you should not daisy chain storage devices.

3.FAQ

(11)Can you boot up from the devices connected to the PCIFS3P?

Solution) You can boot up your system from HDDs,removable disks except for 640MB MOs,1.3GM MOs, CD-ROM,DVD-RAM.

(12)What kind of SCSI devices can you connect to the PCIFS3P?

Solution) 1.HDDs

2.CD-ROM drives

Please note that you need a mount software for CD-ROM drives.
You can not connect CD-ROM drives made by Apple.

3.CD-R drives,CD-RW drives

The performance of writing to CD-R media or CD-RW media depends on your system.
CD-R devices, or CD-RW devices need writing software for them.

4.MOs

5.PDs

6.Image Scanner/Film Scanner

You can use only scanners whose TWAIN scanner driver can be used with extention SCSI bus.
For this information,ask your scanner maker for help.

7.Printer

You can use only printers whose printer driver can be used with extension SCSI bus.

3-2. How to Register

We highly recommend to register yourself as our customer through our on-line registration.

1. On the Internet, access our site (<http://www.ratocsystems.com/english/>)
2. Follow window menu guide to register.
3. Fill out and submit the registration form.

3-3. Software Update and Support

-Software Update-

PCIFS3P driver and utility software are subject to change for improvement or bug fix.

You can download the latest version from our web site.

(<http://www.ratocsystems.com/english/>)

-Technical Support-

You can get a Tech support from RATOOC at the following:

(Open Monday - Friday, 10:00A.M. to 5:00P.M(PST))

RATOOC Systems International, Inc. Tech support

Address: 1933 O'Toole Avenue Suite A109, San Jose, CA 95131, U.S.A.

Phone : (408)955-9400

Fax : (408)955-9402

E-mail : int-support@rexpccard.co.jp

Web : <http://www.ratocsystems.com/english/>

NOTE:

Please include the following information to help us to assist you in the event of a problem:

***Our product name and product description**

***Host Computer Name, MacOS version**

***Application software/driver version**

4.Features

4.Features

4.Features

- *Two external FireWire port and Ultra Wide SCSI port are available at backside panel.
- *One internal FireWire port and one Ultra Wide SCSI port are available on board.
- *Fully compatible with PCI bus specification 2.1.
- *PCI Bus Power Management spec 1.0 compatible..

FireWire Section

- *IEEE1394.a compatible PHY chip is on board.
- *Full backward compatibility to IEEE1394-1995 device.
- *100,200 and 400Mbps data rate is automatically supported at each FireWire port.
- *Class 1(15W) cable power is available at each FireWire port.
- *EditDV Unplugged 1.6.1 45days trial version included.

SCSI Section

- *Supports up to 40MB/sec synchronous Ultra Wide SCSI.
- *SoftRAID is a disk driver and formatting application which integrates RAID technology to give even faster performance and added redundancy.

FCC Statement

-Trademarks-

- * Apple, QuickTime, FireWire, QuickTime Logo, FireWire Logo, MacOS and Macintosh are registered trademarks of Apple Computer Corp.
- * EditDV unplugged is a trademark of Digital Origin Co.
- * Other brand and product names may be registered trademarks or trademarks of their respective holders.

-FCC Statement-

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance may result in this unit not complying with FCC Rules Part 15.