



5Ports USB2.0 PCI Board with Front-Bay attachment **PCIU5**

User's Manual

November 2001

Rev.1.0



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1. Introduction

This User's Guide describes how to install the RATOC 5 ports USB2.0 PCI Board.

(called PCIU5 in this User's Guide).

The information in the README.TXT file on the CD-ROM may include the latest information. Be sure to read the file as well.

1-1. Features

•Adds five High Speed(480Mbps) USB2.0 ports to your desktop.

 $\bullet EHCI(USB2.0) \ and \ OHCI(USB1.1) \ compliant \ host \ adapter \ PCI \ board.$

•Included original USB2.0 EHCI driver and USB2.0 Hub driver for Windows Me/2000/98SE.

•Fully compatible with Microsoft standard USB2.0 driver for Windows XP.

•Supports Low/Full/High Speed(1.5/12/480Mbps). Switches automatically to the highest supported speed of the attached USB device.

•Allows using USB1.1 and USB2.0 peripherals simultaneously.

•Supports Plug & Play, Hot-swapping of USB 1.1/2.0 device and USB2.0 Hub.

•Available full USB Bus Power(500mA) at each port.

•Low profile smart design.

•PCI 2.2 and PCI PowerManagement 1.1 compliant.

1-2. Restrictions

•USB2.0 Isochoronous data transfer isn't available.

•When you remove a USB device and connect it again, you have to wait for over 3 seconds before you connect it again.

•This driver doesn't support remote wake up from a USB device.

•When Microsoft officially releases its USB2.0 driver for Windows 2000, or Windows XP,

we finish supporting our original USB2.0 driver for Windows 2000 or Windows XP.

1-3. System Requirements

•PC with one free PCI 2.1/2.2 compliant slot

•Windows XP/Me/2000/98SE

•ACPI BIOS

2. Before installing...

Package Confirmation

Check the package contents:

- •PCIU2U USB 2.0/1.1 host adapter Low profile PCI board
- •Front-Bay attachment
- •USB2.0 EHCI Driver Software CD-ROM
- •User's manual

NOTE

If any of these items are missing from the PCIU5U retail package, contact your supplier immediately.

3. Setting up

To install the PCIU5 front-bay attachment to 3.5 inch bay, proceed to 3-1.

To install the PCIU5 front-bay attachment to 5 inch bay, proceed to 3-2.

3-1.Installing to 3.5 inch bay

1. Turn off your computer. Then, attach the bundled calbe to the connector on the PCIU5 as shown below.



2.Slide the front-bay into the 3.5 inch bay as shown below.



3.Fix the front-bay with the bundled screws.



4. Attach the other end of the cable to the PCIU5.



5.Install the PCIU5 into a PCI slot. Please note the following:



- 1. You have to install the PCIU5 firmly. If the PCIU5 isn't installed firmly, this product or your PC may get damaged.
- 2.Be sure the gold contact of the PCI board is completely in a white PCI slot.
- 3.Be sure to fasten the bracket of the PCI board with a screw as shown below.



After installing the PCIU5, you have to install the driver.

If you are using Windows 98SE, proceed to Chapter 3-3. If you are using Windows Me, proceed to Chapter 3-4. If you are using Windows 2000, proceed to Chapter 3-5 or 3-6. If you are using Windows XP, proceed to Chapter 3-7.

3-2.Installing to 5 inch bay

1. Turn off your computer. Then, slide rails into the front panel as shown below.



2.Fix the front-bay to the holes shown above with the screws.



3. Attach the bundled cable to the front-bay. Then, attach the clasp as shown below.



4.Slide the front-bay into the front panel as shown below.



5.Fix the front-bay with the screws.



6.Attach the other end of the cable and install the PCIU5 into a PCI slot, following the instructions described at step 4 to 5 in Chapter 3-1.

After installing the PCIU5, you have to install the driver.

If you are using Windows 98SE, proceed to Chapter 3-3. If you are using Windows Me, proceed to Chapter 3-4. If you are using Windows 2000, proceed to Chapter 3-5 or 3-6. If you are using Windows XP, proceed to Chapter 3-7.

3-3. Installing the driver(Windows 98SE)

When you use Windows 98SE, follow the steps to install the driver.

When you start your PC after installing the PCIU5, the following Hardware Wizard will appear. Insert the bundled CD-ROM into the CD-ROM drive and click [Next].

Vdd New Hardware Wizard			
	This wizerd searches for new drivers to: NEC USB Open Host Controller A device driver is a software program that makes a hardware device work.		
	K Brock Next 2 Cancel		

2. Select the [Search for the best driver for your device.(Recommended)] option and click [Next].

Add New Hardware Wiz	and	
	What do you want Windows to do?	
	[Reconnerded].	
	 Display a list of all the drivers in a specific location, so you can select the driver you want. 	
00 + + + +		
	< Back Next 2 Cancel	
Click [Next].	Uncheck all the op	otions.
Add New Hardware Wize	red	
	Windows will search for new drivers in its driver database on your land drive, and in any of the following selected booting. Elick Next to start the search.	
	Coppy disk drives CO-ROM drives	
	□ Microsoft Windows Update	
	F specily a location:	
*	Epwer.	
	<back next=""> Cancel</back>	

1.

3.

4. Select the [The updated driver(Recommended) NEC USB Open Host Controller] option and click [Next].

Add New Hardware Wiz	arð	
	Windows has found an updated driver for this device, and also some other drivers that should work with this device.	
2.	If the updated driver [Hecontrended] NEC USB Open Host Controller	
	C Que of the other drivers.	
	< Back Next Cancel	

5. Click [Next].

Add New Hardware Wize	and the second
	Windows driver file search for the device: NEC USB Open Host Controller Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Need to continue. Location of driver: C:WINDOWSVNF/USB.INF
	<back next=""> Cancel</back>

6. Click **[Finish]**.



7. <u>The same hardware wizard as shown at step 1 through 6 will appear again.</u> <u>Follow the same procedure.</u> Then, the following hardware wizard will appear. Click [Next].

Add New Hardware Wizz	This wised seaches for new drivers for PDI Universal Serial Bus
	A device driver is a software program that makes a hardware drivice wolk.
•	Cancel

9. Select the [Search for the best driver for your device.(Recommended)] option and click [Next].

What do you want Windows: to do? Image: Second se	Add New Hardware Wizard		
	What do you easit Windows to do? What do you easit Windows to your device. Search for the best driver for your device. Peconverded. Display a list of all the drivers in a specific location, so you can select the driver you easit.	•	
(Back Next) Cancel	< <u>∎</u> ack Next > Can	oel	

Select the [Specify a location] option and type [D:\PCIU2] and click [Next].
(D means your CD-ROM drive letter. If your CD-ROM is "E", you have to type [E:\PCIU2].)

Add New Hardware Wiz	arð
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
•	Biowse

8.

11. Make sure Windows found the PCIEHCI.INF file in the CD-ROM drive. Then, click [Next].



12. Click **[Finish]**.



13. Restart your PC.

You have now finished installing the driver.

14. To verify that the driver is installed correctly, right-click on [My Computer], select [System Properties], and then select the [Device Manager] tab.

If you can find two **[NEC USB Open Host Controller]** strings and a **[RATOC PCI USB Enhanced Host Controller]** string under the **[Universal Serial Bus controllers]**, the driver is installed correctly.

System Properties	? <u>×</u>
General Device Manager	Hardware Profiles Performance
♥ View devices by type	C View devices by <u>c</u> onnection
Mouse Network adapters SCSI controllers Sound, video and g System devices Universal Serial But Intel(R) 82801E Intel(R) 82801E NEC USB Oper NEC USB Oper NEC USB Oper NEC USB Oper NEC USB Oper NEC USB Oper USB Root Hub USB Root Hub USB Root Hub USB Root Hub USB Root Hub	game controllers s controllers 3A/BAM USB Universal Host Controller - 24 3A/BAM USB Universal Host Controller - 24 n Host Controller n Host Controller 3B Enhanced Host Controller
Properties Refr	resh Remove Print
	OK Cancel

15. Proceed to Chapter 4.Connecting a USB device.

When you use Windows Me, follow the steps to install the driver.

 When you start your PC after installing the PCIU5, the following Hardware Wizard will appear. Insert the bundled CD-ROM into the CD-ROM drive and select the [Automatic search for a better driver(Recommended)] option and click [Next].

Windows has found the following new hardware:
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click. Next. What would you like to do? Image: Specify the location of the driver (Recommended) Image: Specify the location of the driver (Advanced)
Citeck Next > Cancel

2. Select [RATOC <u>PCI</u> USB Enhanced Host Controller] and click [OK].

lect Other Driver			
Vindows has found more than one driver that has been and device.	hat may work for your hardware.	Please select the driver the	R
Driver Description	Location	Driver Date	
RATOL PO USB Enhanced Host Control RATOL PO USB Enhanced Host Control	EACBU2VCBEHOUNF EAPOU2VPDEHOUNF	4-25-2001 4-25-2001	
	Г	OK, Cancel	
	L.		

3. Click [Finish].

Add New Hardware Wizard			
	RATOC PCI USB Enhanced Host Controller Windows has finished installing the software you selected that your new hardware device requires.		
	CEpck: Finish Cencel		

4. Restart your PC.

You have now finished installing the driver.

5. To verify that the driver is installed correctly, right-click on [My Computer], select [System Properties], and then select the [Device Manager] tab.

If you can find two **[NEC USB Open Host Controller]** strings and a **[RATOC PCI USB Enhanced Host Controller]** string under the **[Universal Serial Bus controllers]**, the driver is installed correctly.



6. Proceed to Chapter 4.Connecting a USB device.

NOTE

You may find the [RATOC PCI USB Enhanced Host Controller] string with green ? marks. But this doesn't affect the peformance of this PCIU5 board.

3-5. Installing our original driver(Windows 2000)

You can install our original USB2.0 driver. But, please note that when Microsoft officially releases its USB2.0 driver for Windows 2000, we finish supporting our USB2.0 driver for Windows 2000. If you install Microsoft USB2.0 driver, refer to 3-6.

Before installing the driver, make sure Windows 2000 Service Pack2 or later is already installed. To verify Service Pack2 or later is installed, right-click on [**My Computer**], and then select [**System Properties**].If you can find a "Service Pack 2" string as shown below, Service Pack 2 is already installed in your system.



After verifying Service Pack2 or later is installed, follow the steps:

1. When you start your PC after installing the PCIU5, the following Hardware Wizard will appear. Insert the bundled CD-ROM into the CD-ROM drive and click [Next].

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This nitset helps sos instal a device driver for a hardware device.
	To continue, slick filest.
	-(Text Berlin Carol

2. Select the [Search for a suitable driver for my device(recommended)] option and click [Next]

A A	I Hadware Device Driver: device drive is a software program that evables a hardware device to work with specifing upless.
T	is visard will complete the installation for this device:
9	Universal Secial Dus (USD) Exritober
A re in	device drives is a software program that makes a handware device work. Windows add driver like for your new device. To locate driver like and complete the raliators click. Next.
W	hat do pos want the wicard to do?
	(* Search for a suitable driver for my device (recommended)
	C gripping whit of the known divers for this device so that I can choose a specific driver
	(Back Berl) Carcal

3. Select the **[Specify a location]** option and click **[Next]**.



4. The following dialog box will appear. Type [E:\PCIU2] and click [OK].
(E means your CD-ROM drive letter. If your CD-ROM is "D", you have to type [D:\PCIU2].)

Found No.	n Hardware Wisard	×	
2	ineer the narviscrusch installation disk into the drive selected, and they sight CK.	Carear	$\overline{\mathbf{S}}$
	Que navulacturals Resition: (C-90.12	-	

Windows 2000

Make sure Windows found the PCIEHCI.INF file in the CD-ROM drive. Then, click [Next].



6. Click [Finish].



7. Restart your PC.

You have now finished installing the driver.

8. To verify that the driver is installed correctly, right-click on [My Computer], select [System
 Properties], and then select the [Hardware] tab. Then, click the [Device Manager] button.

ystem Prop General N	elwork Identification (Hardware User Profiles Advanced
Hadsa	e Wizard The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.
	Hardware Wizard
Device #	fanager
	The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
	Driver Signing Device Manager.
Hardwar	e Profiles
Ð	Hardware profiles provide a way for you to set up and store different hardware configurations.
	Hardware Brofiles
	OK Cancel (soph)

If you can find two [NEC PCI to USB Open Host Controller] strings and a [RATOC PCI USB Enhanced Host Controller] string under the [Universal Serial Bus controllers], the driver is installed correctly.

乌.Device Manager	
Action Yew ← → == == == == == == ==	
B Disk drives	
E B Display adapters	
B - D DVD/CD-ROM drives	
B G Floppy disk controllers	
E I Floppy disk drives	
IDE ATA/ATAPI controllers	
E - C Keyboards	
B Mice and other pointing devices	
Montors	
III Network adapters	
B: I SCSI and RAID controlers	
E Q Sound, video and game controllers	
🗄 🥮 System devices	
E 🚭 Universal Serial Bus controllers	
Intel(R) 82801BA/BAM USB Universal Host Controller - 2442	
- 4 Intel(R) 828018A/BAM USB Universal Host Controller - 2444	
MEC PCI to USB Open Host Controller	
NEC PCI to USB Open Host Controller	
RATOC PCI USB Enhanced Host Controller	
USB Root Hub	
USB Root Hub	
- 🚭 USB Root Hub	
USB Root Hub	-

9. Proceed to Chapter 4.Connecting a USB device.

3-6. Installing Microsoft driver(Windows 2000)

In November in 2001, Microsoft doesn't release its USB2.0 driver for Windows 2000. But, if Microsoft USB2.0 driver for Windows 2000 gets available through "Windows Update", you can install the driver, following the steps below. Please note that you have to access to the internet to install it. If you can't access to the internet, refer to Chapter 3-5.

NOTE: 1)If you have already installed our USB2.0 driver in Chapter 3-5, you don't need to install Microsoft USB2.0 driver. 2)The screens below may be different when you install the Microsoft USB2.0 driver.

Before installing the driver, make sure Windows 2000 Service Pack2 or later is already installed. To verify Service Pack2 or later is installed, right-click on **[My Computer]**, and then select **[System Properties]**. If you can find a "Service Pack 2" string as shown below, Service Pack 2 is already installed in your system.



After verifying Service Pack2 or later is installed, follow the steps:

1. When you start your PC after installing the PCIU5, the following Hardware Wizard will appear. Click [Next].



Select the **[Search for a suitable driver for my device(recommended)]** option and click **[Next]**.



3. Select the [Microsoft Windows Update] option and click [Next].



4. Click [Next].

2.



5. Click [Finish].



6. To verify that the driver is installed correctly, right-click on [My Computer], select [System Properties], and then select the [Hardware] tab. Then, click the [Device Manager] button.

System Prop	perties	? ×
General N	etwork Identification [Hardware]] User Profiles [Advanced	
· · ·	\smile	
Hardwar	e Wizard	
Ś	The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.	
	Hardware Wizard	
Device t	Hanager	
	The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.	
	Driver Signing Device Manager	5
Hardwar	e Prolies	–
2	Hardware profiles provide a way for you to set up and store different hardware configurations.	
	Hardware Profiles	
	OK Cancel Bo	49

If you can find two [NEC PCI to USB Open Host Controller] strings and a [NEC PCI to USB Enhanced Host Controller B1] string under the [Universal Serial Bus controllers], the driver is installed correctly.



7. Proceed to Chapter 4.Connecting a USB device.

- NOTE: 1)Please note that you have to access to the internet to install Microsoft USB2.0 driver. 2)The screens below may be different when you install the Microsoft USB2.0 driver.
- When you start your PC after installing the PCIFU5, the following wizard will appear.
 Select the [Install the software automatically(Recommended)] option Then, click
 [Next].



2. Click [Finish].



- 3. To verify that the driver is installed correctly, click the **[Start]** button, select **[Control Panel]**, and then select **[Performance and Maintenance]**. Then, click the **[System]** icon.
- 4. Select the **[Hardware]** tab. Then, click the **[Device Manager]** button.



5. If you can find two [NEC PCI to USB Open Host Controller] strings and a [NEC PCI to USB Enhanced Host Controller B1] string under the [Universal Serial Bus controllers], the driver is installed correctly.



6. Proceed to Chapter 4.Connecting a USB device.

If a USB storage device(Hard disk drive, Compact Flash Adapter, Smart Media Adapter, MO drive,etc) is connected to the PCIFU5 and recognized correctly, the icon will be added in **[My Computer]**.



ex)When you connect a MO drive Windows Me

5. Troubleshooting

5-1. Deleting the driver(Windows 98SE/Windows Me)

If you want to delete the driver for Windows 98SE/Windows Me, follow the steps to delete it:

(1)Deleting the device string at the Device Manager window(2)Deleting the INF file

- (1)Deleting the device string at the Device Manager window
 - Right-click on [My Computer], select [System Properties], and then select the [Device Manager] tab. Double-click the [Universal Serial Bus Controllers] string.
 Delete the two [NEC USB Open Host controller] strings. Then, delete the [RATOC PCI USB Enhanced Host Controller] string.

(2)Deleting the INF file

- 1)Open [My Computer]. If you use Windows 98SE, click [View] at the menu bar and select [Folder Options]. Then, click the [View] tab and put a check mark at [Show all files]. If you use Windows Me, click [Tools] at the menu bar and select [Folder Options]. Then, click the [View] tab and put a check mark at [Show hidden files and folders].
- 2)Click [Start]. If you use Windows 98SE, select [Find] and [Files or Folders]. If you use Windows Me, select [Search] and [For Files and Folders].
- 3)If you use Windows 98SE, type [RATOC Systems, inc.PCIEHCI.INF] at the [Named] box. If you use Windows Me, type [RATOC Systems, inc.PCIEHCI.INF] at the [Search for files or folders named] box.
- 4)Select the drive at the **[Look in]** box where Windows 98SE or Windows Me is installed.
- 5)Click the **[Find Now]** or **[Search Now]** button.

When the **[RATOC Systems, inc.PCIEHCI.INF]** shows, open the file to make sure there is a PCIU2 string in the file. Then, press the **[Delete]** key to delete it. Usually, the file exists in the **[Windows\inf\others]** directory.

You have now completed the uninstallation of the driver.

Follow the steps to update the driver for Windows 98SE.

(The latest driver is supposed to C:\PCIU2DISK\PCIU2 in this explanation. If the driver doesn't exist there, change the directory explained below to a directory where the new driver exists.)

1)Double-click the **[RATOC PCI USB Enhanced Host Controller]** string under the **[Universal Serial Bus controllers]**.



2)Click the [Driver] tab and click the [Update Driver] button.



3)Click [Next].



4)Select the **[Display a list of all the drivers in a specific location, so you can select the driver you want]** option and click **[Next]**.



5)Click the [Have Disk] button.

e e	Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.
Models: RATOR RATOC	PCI USB Enhanced Host Controller [PATOC) [5-1-2001] PCI USB Enhanced Host Controller [PATOC Systems, inc.] [10-29-2001]
C Show	n gompetble hardware.
	<back next=""> Cancel</back>

6)Click the **[Browse]** button to specify the new driver. Then, click **[OK]**.

(The examples below indicates the new driver is located in C:\PCIU2DISK\PCIU2.)

Install Fr	om Disk	×
2	Insert the manufacture's installation disk into the drive selected, and then click DK.	Cancel
	Copy manufacturer's tiles from:	
		Bowns .

7)Select [RATOC PCI USB Enhaced Host Controller] shown in the Models window and

click [Next].



8)Click [Next].



9)Click [Finish]. Then, restart your PC.

Update Device Driver	Wizard
	RATOC PCI USB Enhanced Host Controller
	Windows has finished installing the driver you selected for your hardware device.
93 *	
*	
	c groto Finish Cancel

Follow the steps to update the driver for Windows Me.

(The latest driver is supposed to C:\PCIU2DISK\PCIU2 in this explanation. If the driver doesn't exist there, change the directory explained below to a directory where the new driver exists.)

1)Double-click the [RATOC PCI USB Enhanced Host Controller] string under the

[Universal Serial Bus controllers].



2)Click the [Driver] tab and click the [Update Driver] button.



3) Click the [Specify the location of the driver(Advanced)] option and click [Next].

Windows can search for and install an updated driver to replace the one currently being used by your hardware. Or, you can specify the location of another driver. What would you like to do?		This wized searches for updated drivers for RATIC PCI USB Enhanced Host Controller
What would you like to do?		Windows can search for and install an updated driver to replace the one cursently being used by your hardware. Or, you can specify the location of another driver.
Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)	8	What would you like to do?
Specily the location of the driver (Advanced)		C Automatic search for a better driver (Recommended)
	-	Specily the location of the driver (Advanced)
		Cancel
Cancel		\sim

4)Select the [Search for a better driver than the one your device is using now (Recommended)] option and put a check mark at the [Specify a location].
Then, click the [Browse] button to specify the new driver. Then, click [Next].
(The examples below indicates the new driver is located in C:\PCIU2DISK\PCIU2.)



5)Click [Next].



6)Click [Finish]. Then, restart your PC.



If you want to delete the driver for Windows 2000, follow the steps to delete it:

- (1)Deleting the device string at the Device Manager window
- (2)Deleting the INF file

(1)Deleting the device string at the Device Manager window

- Right-click on [My Computer], select [System Properties], and then select the [Hardware] tab. Then, click the [Device Manager] button.Double-click the [Universal Serial Bus controllers] string.
- 2)Delete the two [NEC PCI to USB Open Host Controller] strings. Then, delete the [RATOC PCI USB Enhanced Host Controller] string.

(2)Deleting the INF file

- 1)Open [My Computer]. Click [Tools] at the menu bar and select [Folder Options]. Then, click the [View] tab and put a check mark at [Show hidden files and folders] and uncheck the [Hide file extensions for known file types]. Then, click the [Apply] button.
- 2)Search for a oemX.inf file in the C:\WINNT\INF(X means a number).

If you find a oemX.inf file, open it to make sure there is a PCIU2 string in the file. If you find it, delete the oemX.inf. You have to also delete the oemX.PNF file of which

extension only is different from the oemX.inf file.

You have now completed the uninstallation of the driver.

Follow the steps to update the driver for Windows 2000.

(The latest driver is supposed to C:\PCIU2DISK\PCIU2 in this explanation. If the driver doesn't exist there, change the directory explained below to a directory where the new driver exists.)

1)Double-click the **[RATOC PCI USB Enhanced Host Controller]** string under the **[Universal Serial Bus controllers]**.



2)Click the [Driver] tab and click the [Update Driver] button.



3)Click [Next].



4)Select the [Display a list of the known drivers for this device so that I can choose a

specific driver] option. Then, click [Next].



6)Click the [Browse] button to specify the new driver. Then, click [OK].

(The examples below indicates the new driver is located in D:\PCIU2DISK\PCIU2.)

and the second sec	J !	nset the manufacturer's installation disk into the drive selected, and then click DK.	OK.
Ca			Cancel
Copy menufacturer's Nec hore:		Copy menufacturer's Nec from	

7)Select the [RATOC PCI USB Enhanced Host Controller] shown in the Models window and click [Next].



8)Click [Next].

The Mr	and is reach to install the driver for the following hardware device:
÷	RATOC PCI USB Enhanced Host Controller
Window install th	s will use default settings to install the software for this hardware device. To a software for your new hardware, slick Next.

9)Click [Finish]. Then, restart your PC.



6-1. 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.

6-2. Software Update and Support

-Driver Update-

The latest driver or 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 RATOC at the following.

(Open Monday - Friday, 9:30A.M. to 5:00P.M(PST))

RATOC Systems International, Inc. Tech support

Address: 1933 O'Toole Avenue Suite A109

SanJose, 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, serial number, and product description

•Host Computer Name, OS version

Driver version

7. Options

Option is available (sold separately) at the web site:

1. http://www.ratocsystems.com/english/

2. http://www.firewireshop.com

-USB2-01 (USB2.0 cable(3 feet))

If you have any questions about the option, contact to:

RATOC Systems Insternational, Inc. Tech Support TEL : (408)955-9400 FAX: (408)955-9402 E-mail: int-support@rexpccard.co.jp

8. Specifications

Model Name	PCIU5
Board Type	USB2.0 PCI Host Board
PCI Bus transfer	32bitPCI Bus Master(PCI Local Bus 2.2 compliant)
USB data transfer rate	480/12/1.5 Mbps(HS/FS auto-detection)
Environment	Operating temperature0°C/32°F - 55°C/131°F
	Relative humidity 95% Max. (Non-condensing)
Power Consumption	3.3V, 100mA(idle), 200mA(MAX) 5V, 1A(2 ports, MAX) depends on USB Bus Power
Dimensions	119.91 L x 64.41 W mm(Half size and Low Profile PCI)

Appendix

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-Other brand and product names may be registered trademarks or trademarks of their respective holders.

Changes

The information in this User's Manual is furnished for information only and is subject to change without notice. RATOC Systems,Inc. reserves the right to make changes in the product design or product improvements without reservations and without notification to its users. RATOC Systems,Inc. assumes no responsibility or liability for any errors or inaccuracies that may appear in this document.

Regulatory Compliance Statements

I)FCC Compliance 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.

II)European Union Compliance Statement

This device complies with EN55022 Class B/EN55024.



