



USB2.0 PCI Host Board PCIU2

User's Manual

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Rev.1.0



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1. Introduction

This User's Guide describes how to install the RATOC USB2.0 PCI Host Adapter Board. (called PCIU2 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

•Supports 480Mbps(High-speed), 12Mbps(Full-speed), 1.5Mbps(Low-speed) data transfer mode.

This USB2.0 host adapter is fully backwards compatible with the currrent USB1.1 devices.

•Certified and passed USB HI-SPEED Compliance test.

•Includes our original USB2.0 EHCI driver.

Supports Windows 98SE, Windows Me, Windows 2000.

•500mA max. per port available.

•Includes Low-Profile PCI bracket. You can use this PCIU2 PCI board with a Low-Profile PC.

1-2. Restrictions

•You can't connect a USB2.0 device via a USB2.0 HUB.

•The driver doesn't support Isochrounous transfer mode.

- •When you remove a USB device and connect it again, you have to wait for over 3 seconds before you connect it again.
- •You can't remove/connect a USB device when PC is in the following status:

In standby mode, getting ready for standy mode, resuming from standby mode.

In hybernation mode, getting ready for hybernation mode, resuming from hybernation mode.

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

•Other restrictions are written in the readme.txt file.

1-3. Required Operating Systems

- •Windows 98 SE(Second Edition)
- •Windows 2000
- •Windows Me(Millennium Edition)

1-4. Other Requirements

•Available PCI slot

2-1. Package

Check the package contents:

- •PCIU2 PCI Board
- •Low profile bracket
- •Software CD-ROM
- •User's manual

NOTE

If any of these items are missing from the PCIU2 retail package, contact your supplier immediately.

2-2. Using Low-Profile Bracket

If you use the PCIU2 with a Low-Profile PC, you have to replace the bracket with the bundled Low-Profile bracket as shown below.



3-1. Installing the PCI board

Turn off your computer and install the PCIU2 into a PCI slot. Please note the following:



1. You have to install the PCIU2 firmly. If the PCIU2 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 it, start your PC. Then, you need to install the driver for the PCIU2.

A)When you use Windows 98SE	Proceed to Chapter 3-2.
B)When you use Windows 2000	Proceed to Chapter 3-3.
C)When you use Windows Me	-Proceed to Chapter 3-4.

3-2. Installing the driver(Windows 98SE)

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

1. When you start your PC after installing the PCIU2, the following Hardware Wizard will appear. Insert the PCIU2 CD-ROM into the CD-ROM drive and click [Next].

Add New Hardware Wiz	ard
	This wizerd searches for new drivers for
	NEC USB Open Host Controller
	A device driver is a software program that makes a hardware device work.
3.2	
~	
	Cancel

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

Add New Hardware Wiz	ard	
	What do you want Windows to do?	
	< Back Next > Cancel	
Click [Next].	Uncheck all the op	otions.
Add New Hardware Wiz	ard	
	Windows will search for new drivers in its driver database on your had drive, and in any of the following selected location. Click Next to start the search. Roppy disk drives DRIOM drive Proport Windows Update Roperty a location:	

< Back

3.

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

Add New Hardware Wi	zand	
	Windows has found an updated driver for this device, and also some other drivers that should work with this device.	
	What do you want to install?	
	The updated driver (Recommended)	
1 to 2	NEC USB Open Host Controller	
	C Que of the other drivers.	
	Cancel	

5. Click [Next].

Add New Hardware Wizard		
	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 Next to continue. Location of driver: C:WINDOWSVNF/USB.INF	
< Back Next Cancel		

6. Click **[Finish]**.



7. <u>The same hardware wizard as shown at the step 1 through 6 will appear again.</u> Follow the same procedure. 8. Then, the following hardware wizard will appear.

Add New Hardware Wize	wd
-	This wised searches for new drivers for
	PCI Universal Serial Bus
	A device driver is a software program that makes a hardware device work.
8.*	
	Cancel

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

Add New Hardware Wiz	and	
	What do you want Windows to do? Search for the best driver for your device. Percommended). Display a fat of all the drivers in a specific location, so you can select the driver you want.	
	Cancel	

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

Add New Hardware Wiz	and
	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.
<u></u>	D:APCIU2
	Biowse
	Caroes

11. Make sure Windows found the PCIEHCI.INF file in the PCIU2 folder in the CD-ROM drive. Then, click [Next].

Add New Hardware Wiz	ard
-	Windows driver file search for the device:
	RATOC PDI USB Enhanced Host Controller
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue
3.3	Location of driver
	< Back Next Cancel

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.

1	System Properties ?X
	View devices by type O View devices by connection
	Mouse Network adapters SCSI controllers Sound, video and game controllers System devices Universal Serial Bus controllers Intel(R) 82801BA/BAM USB Universal Host Controller - 24 Intel(R) 82801BA/BAM USB Universal Host Controller - 24 Intel(R) 82801BA/BAM USB Universal Host Controller - 24 NEC USB Open Host Controller NEC USB Open Host Controller RATOC PCI USB Enhanced Host Controller USB Root Hub USB Root Hub
	USB Root Hub USB Root Hub
	Properties Refresh Remove Print OK Cancel

Before you install 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" string as shown below, Service Pack 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 PCIU2, the following Hardware Wizard will appear. Insert the PCIU2 CD-ROM into the CD-ROM drive and click [Next].

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This niced helps positivated a device driver for a hardware device.
	To continue, slick Next.

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

A devic An oper	dware Device Drivers e diver is a software program that enables a hardware device to work with sting system.
This with	and will complete the installation for this devices
2	Universal Sesial Dus (USD) Earinoller
A devic reach o installati	e driver is a software program that notices a hardware device work. Windows triver liter for your new device. To locate driver liter and complete the on click lised.
4.1	anoth for a suitable drow for my device harconstanded
¢.	Suplay a list of the known drives for this device so that I can choose a specific lives
	(Back Best) Carcel

3. Select [Specify a location] and click [Next].



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



5. Make sure Windows found the PCIEHCI.INF file in the PCIU2 folder in the CD-ROM drive. Then, click [Next].



6. Click [Finish].

aand how Hardware Wicard	Completing the Found New Hardware Wizard RATE PELUSE Enhanced Host Controller Windows has finished installing the software to this device.
	To obse this volged, old Finish.

7. Restart your PC.

You have now finished installing the driver.

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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.

stem Prop General N	enties <u>?</u>] etwork Identification (Hardware) User Profiles Advanced	
Hardwar	e Wizard	
\$	The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.	
	Hardware Wizard	
Device I	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	
Hadwar	e Prolies	
Ð	Hardware profiles provide a way for you to set up and store different hardware configurations.	
	Hardware Brofiles	
	DK Cancel Asste	

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.

E _j Device Manager	_D×
Action ← → == 12 12 12 23 28 28	
8 C Disk drives	
🗄 💭 Display adapters	
B B DVD/CD-ROM drives	
B G Floppy disk controllers	
E Poppy disk drives	
B G IDE ATA/ATAPI controllers	
B- 🕸 Keyboards	
B S Mice and other pointing devices	
8 🖳 Monitors	
Imp Network adapters	
B- SCSI and RAID controllers	
 Q[: Sound, video and game controllers 	
🗵 🏥 System devices	
🖻 🏘 Universal Serial Bus controllers	
Intel(R) 82801BA/BAM USB Universal Host Controller - 2442	
- 4 Intel(R) 828018A/BAM USB Universal Host Controller - 2444	
NEC PCI to USB Open Host Controller	
MEC PCI to USB Open Host Controller	
RATOC PCI USB Enhanced Host Controller	
- 4 USB Root Hub	
- 🚭 USB Root Hub	
- 🏘 USB Root Hub	
- 🔁 USB Root Hub	-

3-4. Installing the driver(Windows Me)

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

 When you start your PC after installing the PCIU2, the following Hardware Wizard will appear. Insert the PCIU2 CD-ROM into the CD-ROM drive and select [Automatic search for a better driver(Recommended)] and click [Next].

Add New Hardware Wiz	ard
	Windows has found the following new hardware:
	PDI Universal Serial Bus
	Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, incert it now and click Next.
2.	What would you like to do?
	· ¿utomatic search for a better driver (Recommended)
*	C Specify the location of the driver (Advanced)
	< Book Next > Cancel

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

er that may work for your hardware.	Please select the driver th	hat
Location	Driver Date	_
EACBUZYCBEHOUNF Collet EAPOUZYPOEHOUNF	4-25-2001 4-25-2001	
Г	OK Cance	el
	er that may work for your hardware.	er that may work for your hardware. Please select the driver the drivert the driter the driver the driver the driter the driter the

3. Click [Finish].



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.

System Properties	? ×
General Device Manager Bardware Profiles Performance	
Monitors Mouse SCSI controllers Sound, video and game controllers System devices Universal Serial Bus controllers Intel(r) 82801BA/BAM USB Universal Host Controller 1 Intel(r) 82801BA/BAM USB Universal Host Controller 2 NEC USB Open Host Controller (E13+) NEC USB Open Host Controller (E13+) NEC USB Open Host Controller USB Root Hub	*
Properties Refresh Remove Print_	í
OK Ca	ancel

NOTE

You may find the [RATOC PCI USB Enhanced Host Controller] string with green ? marks. But this doesn't affect the peformance of this PCIU2 board.

4-1. 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.

4-2. 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

5. 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

6. Specifications

Model Name	PCIU2
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 20% - 80% (noncondensing)
USB connector	USB 2.0 Type A x 2port
USB port corrent	500mA at each port(MAX.)
Optional connector	J4 connector to be used for an optional front bay

Appendix

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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.

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