

USB2.0 CardBus Host PC Card CBU2

User's Manual

March 2003

Rev.4.0



CBU2U

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1. Introduction

This User's Guide describes how to install the RATOC USB2.0 CardBus PC Card (called CBU2 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

- •EHCI(USB2.0) and OHCI(USB1.1) compliant host adapter CardBus PC Card.
- •Included original USB2.0 Driver for WindowsMe/98SE.
- •Fully compatible with Microsoft standard USB2.0 driver for WindowsXP.
- •Adds two High Speed(480Mbps) USB2.0 ports to your laptop PC.
- •Supports USB2.0 High-Speed HUB.
- •Supports Low/Full/High Speed(1.5/12/480Mbps).

Switches automatically to the highest supported speed of the attached USB device.

- •Supports Low/Full Speed (1.5/12Mbps) with Apple USB Supports drivers.
- •Allows using USB1.1 and USB2.0 peripherals simultaneously.
- •Supports Plug & Play and Hot-Swapping of USB1.1/2.0 device.
- •Available USB Bus Power up to 300mA at two ports.
- •Cable Power adapter(Sold Separately) is required for 500mA at each port.
- •Dongle-less smart design.
- •5 years warranty.

1-2.Restrictions

- •When you remove a USB device and connect it again, you have to wait over 3 seconds before you connect it again.
- •This driver doesn't support remote wake up from a USB device.

1-3. System Requirements

PC or PowerBook G4/G3* with CardBus-enabled PC Card slot.

- •PC: WindowsXP/Me/2000/98SE
- •Mac:MacOS X 10.1.x / 9.2.x
- * Except PowerBookG3(November 1997, Machine/Gestalt ID:313). This model doesn't support CardBus slot. Please check your Machine ID at Apple System Profiler window.PowerBookG3(1998,1999,2000) are required.
- * CBU2U works as the USB1.1 compatible host adapter with Apple USB Support drivers. Not support USB2.0 High speed on Mac.

2-1. Package Confirmation

Check the package contents:

•CBU2 CardBus PC Card •Software CD-ROM •User's manual

NOTE

If any of these items are missing from the CBU2 retail package, contact your supplier immediately.

3. Setting up

A)If you are a Windows 98SE user	Proceed to Chapter 3-1.
B)If you are a Windows 2000 user	Proceed to Chapter 3-2.
C)If you are a Windows Me user	Proceed to Chapter 3-3.
D)If you are a Windows XP user	Proceed to Chapter 3-4.
E)If you are a Macintosh user	Proceed to Chapter 3-5.

3-1. Installing the driver(Windows 98SE)

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

 Insert the CBU2 CD-ROM into the CD-ROM drive. The installer will start up automatically. If the installer won't start up automatically, run [Setup.exe] at the CD-ROM. The following wizard will open. You are prompted to insert the CBU2.



2. Insert the CBU2 PC Card. The following Hardware Wizard will open. Click [Next].



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

	What do you want Windows to do?	
	© Search for the best driver for your device. [Recommended].	
	Display a list of all the drivers in a specific location, so you can select the driver you want.	
*	< Back Next > Cancel	
	•	
lick [Next].	Uncheck all the options.	
Click [Next].	Uncheck all the options.	
Click [Next]. Add New Hardware Wi	Uncheck all the options.	
Click [Next]. Add New Hardware Wi	Uncheck all the options.	
Click [Next]. Add New Hardware Wi	Uncheck all the options. eard 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. Loppy disk drives	
Click [Next]. Add New Hardware Wi	Canal 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. I oppy disk drives CO-ROM drive	
Click [Next].	Uncheck all the options.	
Click [Next].	Uncheck all the options. And Send Windows will search for new drivers in its driver database opout and drive, and in any of the following selected locations. Click Next to start the search. I sloppy disk drives D co-ROM drive Mcrosoft Windows Update C specify a location:	
Click [Next].	Uncheck all the options.	
Click [Next].	And	

4.

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

Add New Hardware Wi	zard	
	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)	
2. 🐟 🛛	NEC USB Open Host Controller	
	C <u>□</u> ne of the other drivers. <u>View List</u>	
	< Back Next Cancel	

6. 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:			
	<back next=""> Cancel</back>			



Click the [Browse] button and specify a [Win98] folder at the CD-ROM and click [OK].

Copying	Files	×
	The file 'openhci.sys' on Windows 98 Second Edition CD-ROM cannot be found.	OK I
	Insert Windows 98 Second Edition CD-ROM in the selected drive, and click OK.	Cancel
		<u>S</u> kip File
(Copy files from:	<u>D</u> etails
	E:\win98	Browse

7. Click [Finish].

Add New Hardware Wizard				
	NEC USB Open Host Controller			
	Windows has finished installing the software that your new hardware device requires.			
*				
	< Back Finish Cancel			

8. The same hardware wizard shown at step 2 through 7 will open again. Follow the same procedure.

And then, click [Next] on the wizard shown in Step 1.

9. Select the **[Yes, I want to restart my computer now]** option and click **[Finish]**.



10. To verify that the driver is installed correctly, right-click on [My Computer], select
[Properties], and then select the [Device Manager] tab.
If you can find two [NEC USB Open Host Controller] strings and a [RATOC CB USB
Enhanced Host Controller] string under the [Universal Serial Bus controllers], the driver is installed correctly.



11. To connect a USB device, proceed to Chapter 4.Connecting a USB device.To remove the CBU2 from the PC Card slot, proceed to Chapter 5.Removing the CBU2.

3-2. Installing the driver(Windows 2000)

Before you install the driver, make sure Windows 2000 Service Pack 3 is already installed.

To verify Service Pack 3 is installed, right-click on [My Computer], and then select

[**Properties**]. If you can find a "Service Pack 3" string as shown below, Service Pack 3 is already installed in your system.



After verifying Service Pack 3 is installed, follow the steps:

 Insert the CBU2 CD-ROM into the CD-ROM drive. The installer will start up automatically. If the installer won't start up automatically, run [Setup.exe] at the CD-ROM. The following wizard will open. You are requested to insert the CBU2.

InstallShield Wizard
Can not find USB2.0 CardBus PC card.
Please click the next button after insert USB2.0 CardBus PC card.
InstallShield
Cancel

2. Insert the CBU2 PC Card. The following Hardware Wizard will open. Click [Finish].



3. You will be prompted to restart to your PC. Click [No], and then click [Next] on the wizard shown in Step 1.



4. Select the **[Yes, I want to restart my computer now]** option and click **[Finish]**.

InstallShield Wizard	
E.	Installation Complete Setup has finished installing USB2.0 driver on your computer. You need to reboot your computer to take effect.
	Yes, I want to restart my computer now
	O No, I will restart my computer later.
	< <u>B</u> ack Finit Cancel

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

System Properties
General Network Identification Hardware User Profiles Advanced
Hardware Wizard The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.
Hardware Wizard
Device Manager Image: 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 Driver Signing Device Manager Driver Signing Device Manager Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware <u>P</u> rofiles
OK Cancel Apply

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

<u>E</u>	Device Manager	
]	Action View ← → 📾 🖬 😭 😰 🕄 😹 🗷	
	Action View ← → Im Im	
	USB Root Hub	
	···· 🥰 USB Root Hub	-

6. To connect a USB device, proceed to Chapter 4.Connecting a USB device. To remove the CBU2 from the PC Card slot, proceed to Chapter 5.Removing the CBU2.

3-3. Installing the driver(Windows Me)

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

 Insert the CBU2 CD-ROM into the CD-ROM drive. The installer will start up automatically. If the installer won't start up automatically, run [Setup.exe] at the CD-ROM. The following wizard will open. You are prompted to insert the CBU2.



- 2. Insert the CBU2 PC Card. Because some drivers will be installed automatically, wait a few minutes, and then click **[Next]** on the wizard shown on Step 1.
- 3. Select the [Yes, I want to restart my computer now] option and click [Finish].

InstallShield Wizard		
	Installation Complete Setup has finished installing USB2.0 driver on your computer. You need to reboot your computer to take effect. Image: The setup has finished installing USB2.0 driver on your computer. You need to reboot your computer to take effect. Image: The setup has finished installing USB2.0 driver on your computer. Image: The setup has finished installing USB2.0 driver on your computer. Image: The setup has finished installing USB2.0 driver on your computer has a setup has finished installing USB2.0 driver has a setup ha	
	Kennel Cancel	

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

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

System Properties	:
General Device Manager Hardware Profiles Performance	
• View devices by type • • • • • • • • • • • • • • • • • • •	
Mouse Mouse Mouse PCMCIA socket SCSI controllers Sound, video and game controllers System devices Universal Serial Bus controllers Mouse 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+) RATOC CB USB Enhanced Host Controller USB Root Hub USB Root Hub USB Root Hub USB Root Hub	
Properties Refresh Remove Print	
OK Cancel	

5. To connect a USB device, proceed to Chapter 4.Connecting a USB device.
To remove the CBU2 from the PC Card slot, proceed to Chapter 5.Removing the CBU2.

NOTE

You may find a [RATOC CB USB Enhanced Host Controller] string with a green ? mark. But this doesn't affect the peformance of this CBU2 PC Card. Before you install the driver, check to see if Windows XP Service Pack 1 is already installed or not.

To verify Service Pack 1 is installed, right-click on [My Computer], and then select

[**Properties**]. If you can find a "Service Pack 1" string as shown below, Service Pack 1 is already installed in your system.



If the Service Pack 1 is already installed in your system, proceed to Section A. If the Service Pack isn't installed in your system, proceed to Section B.

A. Installing the driver in Windows XP with Service Pack 1

1. If the Service Pack 1 is already installed in your system, insert the CBU2 CD-ROM into the CD-ROM drive. The installer will start up automatically. If the installer won't start up automatically, run **[Setup.exe]** at the CD-ROM. The following wizard will open. You are prompted to insert the CBU2.

InstallShield Wizard	x
Can not find USB2.0 CardBus PC card	
Please click the next button after CardBus PC card.	insert USB2.0
InstallShield	
	<u>N</u> ext> Cancel

 Insert the CBU2. Because some drivers will be installed automatically, wait a few minutes, and then click [Next] on the wizard shown on Step 1.



3. Select the **[Yes, I want to restart my computer now]** option and click **[Finish]**.

InstallShield Wizard		
	Installation Complete Setup has finished installing USB2.0 driver on your computer. You need to reboot your computer to take effect.	
	C No, I will restart my computer later.	
	< <u>B</u> ack Finish Cancel	

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

System Properties	?×
System Restore Automatic Updates Remote General Computer Name Hardware Advance	d
Add Hardware Wizard The Add Hardware Wizard helps you install hardware. Add <u>H</u> ardware Wizard	
Device Manager Image: 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 Hardware Profiles Hardware profiles Hardware profiles provide a way for you to set up and store different hardware configurations.	
Hardware Profiles	
OK Cancel App	ly -

If you can find two [NEC PCI to USB Open Host Controller] strings and a [NEC PCI to USB Enhanced Host Controller(Bn)(RATOC)] string(n is a number) or a [Standard Enhanced PCI to USB Host Controller(RATOC)] string(n is a number) under the [Universal Serial Bus controllers] as shown Fig1 or Fig2, the driver is installed correctly.

Fig1	🖳 Device Manager
rigi	<u>Eile Action View Help</u>
	E Skurives
	DVD/CD-ROM drives
	Eleppy disk controllers
	Hoppy disk drives
	E Weyboards
	Mice and other pointing devices
	Here Monitors
	🗈 🖳 🦻 System devices
	Universal Serial Bus controllers
	NEC PCI to USB Open Host Controller
	NEC PCI to USB Open Host Controller
	USB Root Hub
Fig	🖳 Device Manager
Fig2	Bevice Manager Elle Action View Help
Fig2	Bevice Manager Elle Action Yew Help ← ● Im Im
Fig2	Bevice Manager Eile Action View Help ← → III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Fig2	Bevice Manager File Action View Help + -> III III III III III IIII IIIIIIIIII
Fig2	Bevice Manager File Action Yiew Help + -> Im Im Im Im
Fig2	Bevice Manager Ele Action Yew Help ← → Im Im Im Im Im ← → Im Im Im Im Im Im ← → Im
Fig2	Bevice Manager File Action View Help Her Image: Computer Image: Computer Image: Computer Image: Display adapters Image: Display adapters Image: Display adapters Image: Display disk controllers Image: Floppy disk controllers Image: Display disk drives Image: Display disk drives
Fig2	Bevice Manager File Action Yiew Help Help Help Help
Fig2	Bevice Manager Ele Action Yew Help Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Stress Image: Second Str
Fig2	Device Manager Ele Action Yew Help Image: Second Secon
Fig2	Device Manager Ele Action Wew Help ← → ⊡ ⊡ ⊡ ⊡ ← → ⊡ ⊡ ⊡ ⊡ ⊡ ← → ⊡ ⊡ ⊡ ⊡ ⊡ ⊡ □ □ ⊡ ⊡ ⊡ ⊡ ⊡ ⊡ □
Fig2	Device Manager File Action Yiew Help Help Help Help
Fig2	Device Manager Ele Action Yiew Help Image: Second Seco
Fig2	Device Manager Ele Action Wew Help Help Co Co Co Display adapters DVD/CD-ROM drives DVD/CD-ROM drives Floppy disk controllers Floppy disk drives Display adapters DVD/CD-ROM drives
Fig2	Device Manager Ele Action Wew Help Help
Fig2	Device Manager Ele Action View Help Image: Co
Fig2	Device Manager Ele Action View Help Co Co Co Co Co Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk controllers Floppy disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Network adapters Network adapters Network adapters Sound, video and game controllers System devices Universal Serial Bus controllers NEC PCI to USB Open Host Controller VIE Nect PCI to USB Open Host Controller VIE Nect PCI to USB Open Host Controller VIE Nect PCI to USB Open Host Controller VIE Root Hub
Fig2	Device Manager Ele Action View Help Image: Action Image: Acti

4. To connect a USB device, proceed to Chapter 4.Connecting a USB device.To remove the CBU2 from the PC Card slot, proceed to Chapter 5.Removing the CBU2.

1. Insert the CBU2.



2. The following wizard will open. Select the **[Install the software automatically (Recommended)]** option and insert the bundled CD-ROM.



3. The following wizard will open. Click [Continue Anyway].



4. The following wizard will open. Click [Finish].

Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard
	The wizard has finished installing the software for:
	RATOC CB USB Enhanced Host Controller
	The hardware you installed will not work until you restart your computer.
	Click Finish to close the wizard.
	< Back Finish Cancel

5. You will be prompted to restart your PC. Click [Yes].

System Settings Change			
?	Windows has finished installing new devices. The software that supports your device requires that you restart your computer. You must restart your computer before the new settings will take effect.		
	Do you want to restart your computer now?		
	<u>Y</u> es <u>N</u> o		

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

System Proper	ties		?×
System Re	store Auto	matic Updates	Remote
General	Computer Name	Hardware	Advanced
Add Hardwar	re Wizard		
The second secon	e Add Hardware Wizarc	l helps you install hardwa	ire.
		Add <u>H</u> ardware ^V	Wizard
Device Mana	ager		
Th on pro	e Device Manager lists your computer. Use the operties of any device.	all the hardware devices Device Manager to cha	installed nge the
	Driver <u>S</u> igning	<u>D</u> evice Mana	
Hardware Pro	ofiles		
aiff	rdware profiles provide ferent hardware configu	a way for you to set up ar rations.	nd store
		Hardware <u>P</u> ro	ofiles
		DK Cancel	

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

🖳 Device Manager	- DX
<u>File Action View H</u> elp	
Computer Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk controllers DE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors PCMCIA adapters Sound, video and game controllers System devices Universal Serial Bus controllers NEC PCI to USB Open Host Controller NEC PCI to USB Open Host Controller ALCONTROL CE USB Ephanced Host Controller	
USB Root Hub VIA Rev 2 USB Universal Host Controller	

6. To connect a USB device, proceed to Chapter 4.Connecting a USB device.To remove the CBU2 from the PC Card slot, proceed to Chapter 5.Removing the CBU2.

3-5. Confirming the driver(Macintosh)

The CBU2 doesn't support USB2.0 High speed on Mac. The CBU2 works as the USB1.1 compatible host adapter. Please confirm your Mac is ready to use the CBU2 by following the steps:

A. When you use MacOS 9.x...

Open [Apple System Profiler] from the Apple menu and then click the [Devices and Volumes]. If you can find a "USB" string as shown below, you can use the CBU2. To connect a USB device, proceed to Chapter 4.Connecting a USB device. To remove the CBU2 from the PC Card slot, proceed to Chapter 5.Removing the CBU2.

Apple System Profiler	2 E
Sectem Profile Devices and Volumes Control Panels Extensions Applications System Folders	
USB 0 1.4.1 USB 1 No devices found on this bus 1.4.1 No devices found on this bus 1.4.1 Expansion Bay 1 D = 0 CD-ROM drive No mounted media inserted	
Internal ATA 0 ID = 0 Hard drive Mac 0S 9.0.4 Mac 0S 9.2.1 Mac 0S 9.2.1	
PCI Slot E1 Display card Display	
Floppy No mounted media inserted	
	4 Þ 7

If you can't find the string, you need to install USB driver available through Apple web site. To install the USB driver through Apple web site, follow the steps:

1. Access to Apple web site(www.apple.com) and click the [Support] tab. Then, click [Downloads] and type in [USB Adapter] at Search for Downloads box. Click the [Go] button.

C Apple Featured Software					E
Back Forward	Stop Refresh Home AutoFill	Print P	M 1ail	(8
Address: @ http:/	//www.info.apple.com/support/downloads.html				go
O Live Home Page	@ Apple @ iTools @ Apple Support @ Ap	ple Store 🛛 🔘 Mi	crosoft MacTopia 🛛 MSN	Office for Macintosh O Internet Explorer	
Favorite	Store ITool: Protection Plan Downloads Sp	iCan becifications	rds QuickTime Knowledge Base Discu	Support Mac OS X	
Featured Software					III
arch	Title/Languages Available	Posted	Download (EN-NA)	Search for Downloads	
Sci	Mac OS X Update 10.1.4 Z	2002-04-17	₩ <u>1.7 MB</u>	USB ADAPTER GO	
apboo	Security Update April 2002 Z	2002-04-04	₩ <u>4.2 MB</u>	Type the name of a product, an update, or a date (yyyy-mm-dd) Requires <u>Apple ID</u>	
*	Mac OS X Server 10.1.4 Update EN, FR, DE, JA	2002-04-16	₩ <u>440 K</u>	Most Popular	
ade I	Mac OS X 10.1.3 Update Z	2002-02-19	₩ <u>16 MB</u>	Figure 1	
lolder	Mac OS X 10.1.3 Update Combo Z	2002-02-19	₩ <u>38.4 MB</u>	Airport 2.0.2 for Mac OS X	
	Mac OS Server 10.1.3 Update EN, FR, DE, JA	2002-02-20	₩ <u>3.5 MB</u>	<u>Mac OS X 10.1.3 Update</u> iTunes for Mac DS X 2 0 4	
	Mac OS 9.2.2 EN-NA, EN-Z, FR, DE, JA, NL, IT	2001-12-05	₩ <u>21.3 MB</u>	QuickTime 5	
	Apple Bluetooth Technology Preview EN, FR, DE, JA	2002-03-31	₩ <u>1.7 MB</u>	Updates by Product	
Software Downlo	AirPort 2 0 2 for Mac 0S X ads			Annala Handarana	▼ ///

You can find USB Adapter Card Support 1.4.1 Document and Software.
 Double-click it to download it. [USB Card Support 1.4.1.smi] will be downloaded.



Double-click [USB Card Support 1.4.1.smi]. Software License Agreement window will open. If you agree with it, click [Agree]. The following [USB Adapter Card Support] will appear. Double-click it.



4. The following window will open.Double-click the [Installer] icon.



5. The following window will open.Click the [Install] button.

Install USB Adapter Card	
Click "Install" to place USB Adapter Card Support Software on the selected disk.	
Destination Disk Eject Disk Quit Mac 08 9.0.4 Switch Disk Insta	

 The window saying [Installation was successful] will open.Click the [Quit] button.
 Your Mac now has been ready to use the CBU2. To connect a USB device, proceed to Chapter 4.Connecting a USB device. To remove the CBU2U from the PC Card slot, proceed to Chapter 5.Removing the CBU2U.

B. When you use MacOS X...

Open **[Applications]**, **[Utilities]** folder, and then start **[Apple System Profiler]**. If you can find a "**USB**" string as shown below, you can use the CBU2U. To connect a USB device, proceed to **Chapter 4.Connecting a USB device**. To remove the CBU2U from the PC Card slot, proceed to **Chapter 5.Removing the CBU2U**.

	00	0	Apple System Profiler	
		Syst	tem Profile Devices and Volumes Frameworks Extensions Applications	
(USB	No devices foun	id on this bus	Î
	USB	No devices foun	Id on this bus	
	FireWire	No devices foun	Id on this bus	
	PCI	Not available	▶ RageM3p-parent	U
		PC Card	▶ cardbus	
			MacOSX_1013	
				11.

4-1. Self-power device/Bus-power device

There are two kinds of USB devices:

1.Self-power device:

This type of USB device gets power necessary to work itself through an outlet.

2.Bus-power device:

This type of USB device gets power necessary to work itself through an USB cable. Each USB device of this type has its own current necessary to work itself. The maximum current is 500mA. Here is an example.(Contact your device manufacturer for other devices)

Device	Manufacurer	Model name	consumption current
•Mouse	Microsoft	IntelliMouse	100mA
•ImageScanner	Cannon	FB636U/630U	500mA
•CompactFlash Reader	RATOC	CF03U	100mA
•SmartMedia Reader	RATOC	SMA03U	100mA

4-2. Connecting a Bus-powered type of USB device to the CBU2

The CBU2 has two USB ports and these ports can provide 300mA in total. If you connect our AC Adapter(Solf Separately) to the CBU2U, the two ports can provide 500mA at each port. If you connect a Bus-powered type of USB device of which cunsumption current is over 300mA, you need to use the AC Adapter(Sold Seperately. Refer to Chapter 8 for purchase information). You don't need to purchase it if you connect a Bus-powered type of USB device of which cursumption current is less than 300mA. Here is an example.

If you connect FB636U/630U made by Cannon described above, its consumption current exceed 300mA. Therefore, you need to use the AC Adapter to provide 500mA.
If you connect CF03U and SMA03U simultaneously, their consumtion current is 200mA in total. Therefore, you don't need to use the AC Adapter. You can use them without the AC Adapter.

If you connect a USB storage device such as a Hard Disk Drive, Compact Flash Adapter, SmartMedia Adapter, MO drive on Windows, you can find its icon in **[My Computer]**.



If you connect such a device on Mac, its icon will be mounted on desktop.



(Mac OS 9.x)



(Mac OS X)

5. Removing the CBU2U

If you remove the CBU2U, you need to follow the steps:

5-1. Windows 98SE/ME

If you remove the CBU2U on Windows 98SE/Me, you need to follow the steps:

1. Click the red CBU2U icon at the tasktray in the lower right-hand corner of the desktop.



2. The following pop-up menu will appear. Select it.

Stop RATOC CB USB Enhanced Host Controller

3. The following window will appear. Click [OK]. You can now safely remove the CBU2U.



5-2. Windows 2000/XP

If you remove the CBU2U on Windows 2000/XP, you need to follow the steps:

1. Click the PC Card icon with a green arrow at the tasktray in the lower right-hand corner of

the desktop.





(Windows XP)

(Windows 2000)

5-3. Macintosh

If you remove the CBU2 on Mac OS 9.x, you need to follow the steps:

1.If a USB device icon is mounted on the desktop, move it to the Trash icon.

2. Move the CBU2 icon to the Trash icon.

3.Remove the CBU2 icon from the PC Card slot.



CBU2 icon

If you remove the CBU2 on Mac OS X, you need to follow the steps:

1.If a USB device icon is mounted on the desktop, move it to the Trash icon.

2.Shut down your Mac.

3.Remove the CBU2 from the PC Card slot.

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))

-AC05 (AC adapter)

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	CBU2
Card Type	USB2.0 CardBus PC Card
Interface	USB2.0
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)
Connector	USB2.0 Type A x 2 port / DC jack

Appendix

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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.



