

CardBus PC Card Adapter PCI Board

REX-CBS51U

User Guide

Rev. 1.0

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 RATOC Systems, Inc.

REX-CBS51U User Guide

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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.

1. Introduction

Thank you for purchasing the REX-CBS51U kit. This kit contains the REX-CBS51 CardBus Bridge adapter PCI board, ISA-IRQ routing board with cable and this document. This guide contains the most complete information for installation and operation of the REX-CBS51 CardBus PC Card Adapter at press time. Be sure to read this guide before using the PC Card adapter the first time. The README file included on the supplied floppy disk may contain more recent information which may not be included in this guide. Be sure to read the README file as well.

1-1. Features

- Allows CardBus PC Cards to be shared by both portable and desktop PC
- Supplied ISA-IRQ routing board allows you to use 16-bit PC Cards
- Automatic detection between 16-bit and CardBus PC Card
- Device driver is already included in Windows 98.
- ACPI support

1-2. Trademarks

- Windows is a registered trademark of Microsoft Corporation.
- Other names of companies and products appearing in this guide are trademarks or registered trademarks respectively of those companies.

1-3. Before Using the REX-CBS51

- Never attempt to disassemble the boards and the cable.
- Do not bend, drop or strike the boards and the 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.

1-4. System Requirements

- PC with PCI slot and ISA slot
- Windows 98

1-5. Check Package Contents

- REX-CBS51 CardBus/R2 Bridge adapter PCI board
- ISA-IRQ routing board
- User Guide (This document)

NOTE

- If anything is missing, contact your store or RATOOC Systems.

1-6. How to Register

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

1-7. Program Update and Support

We recognize the need to keep users up-to-date with the latest software releases. Software updates can be downloaded from our web site (<http://www.rexpccard.co.jp>).

Technical support is handled by RATOOC Systems, Inc. at the following:

RATOOC Systems, Inc.

1-6-14 Shikitsu-higashi, Naniwa-ku, Osaka, JAPAN 556-0012

FAX : +81-6-6633-3553 E-mail : int-support@rexpccard.co.jp

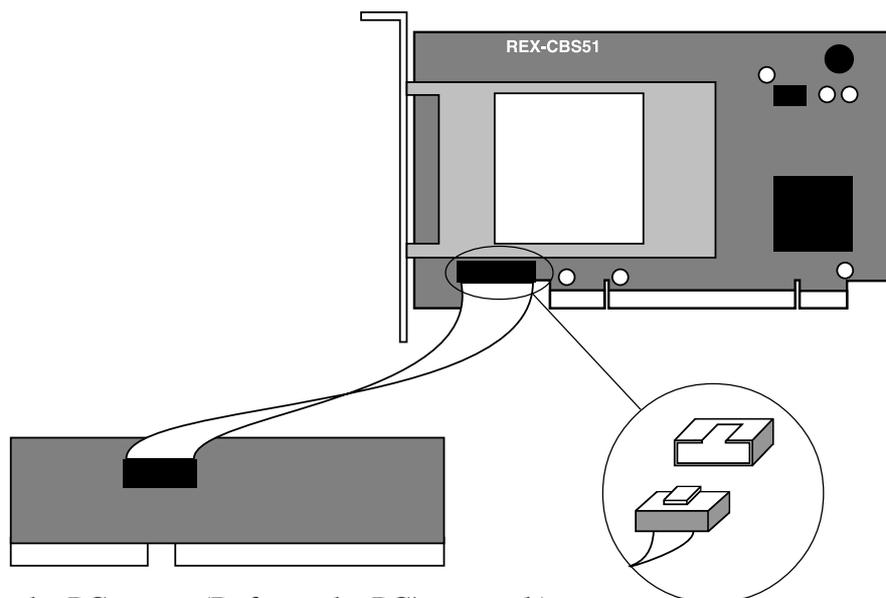
NOTE

- Please include the following information to help us to assist you in the event of a problem:
 - Model type, serial number, and product description
 - Host Computer Name, System BIOS Name and Version
 - Software driver product type and version number

2. Setup

2-1. Before setup

1. Turn off and unplug the PC and all peripherals.
2. Connect one end of the cable connector to the PCI-CardBus/R2 Bridge board, the other end of connector to the ISA-IRQ routing board.



3. Remove the PC cover. (Refer to the PC's manual.)
4. Select a free PCI expansion slot next to a free ISA expansion slot, then remove the slot cover.

2-2. Hardware installation

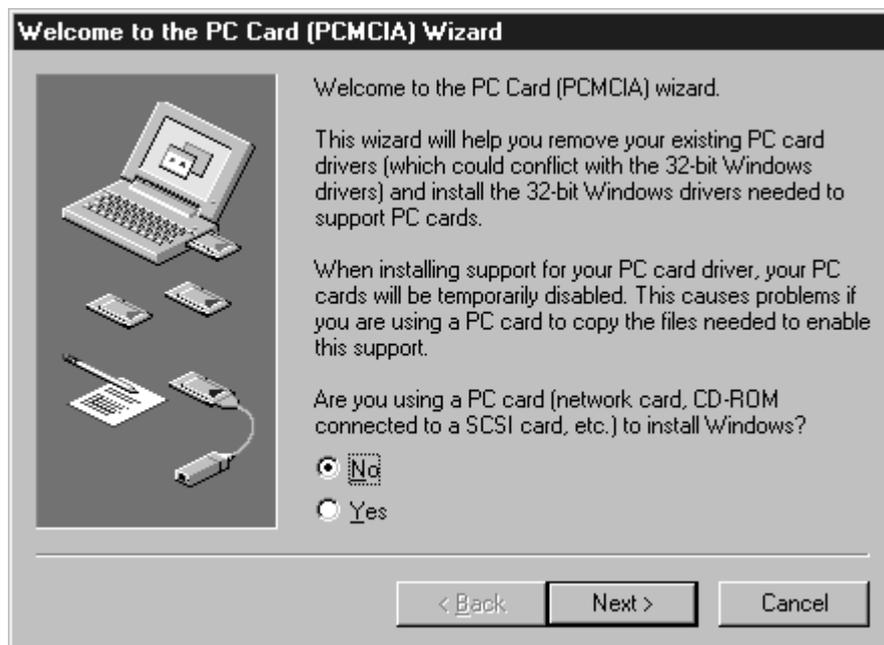
1. Carefully install the PCI-CardBus Bridge board by firmly pressing the adapter into the PCI expansion slot you have chosen.
2. Install the ISA-IRQ routing board into the ISA expansion slot next to the PCI slot where PCI-CardBus Bridge board is inserted.
3. Fasten the retaining bracket with the screw from the slot cover.
4. Replace the PC cover and reconnect the power cable and all peripherals.

NOTE

- If only the PCI-CardBus/R2 PCI Bridge board is inserted to the expansion slot without the ISA-IRQ routing board, 16-bit PC Cards might not be able to be used with the REX-CBS51.

2-3. Software installation

1. Turn on the PC and start Windows 98.
2. When the following window appears, select **No** and click on the **Next** button.

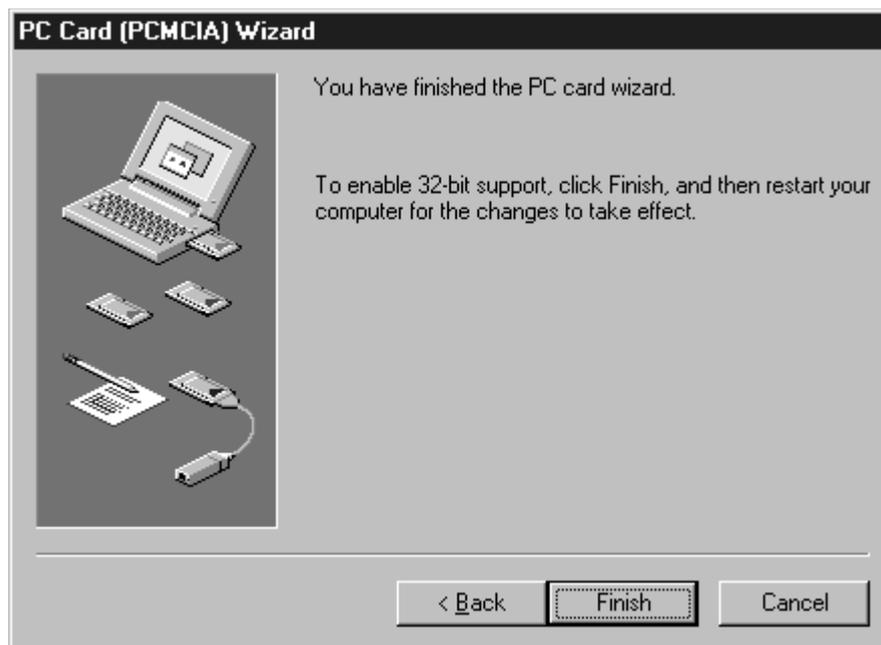


NOTE

- If other PC Card adapters have already been installed, this window does not appear. Continue to install starting from step 5 .
3. When the following window appears, select **No** and click on the **Next** button.



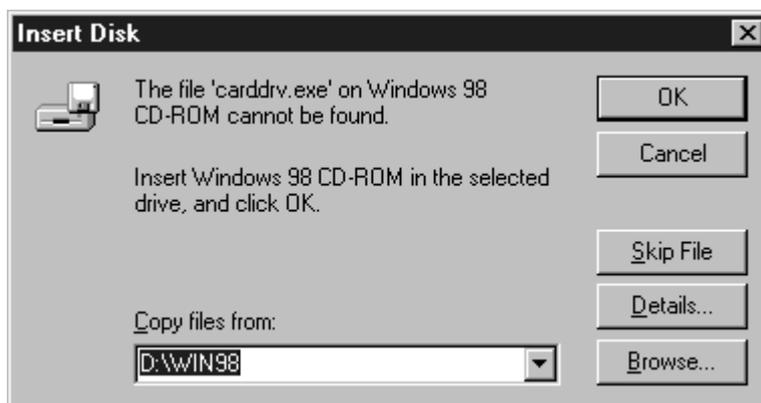
4. When the following window appears, click on the **Finish** button.



5. If the following window appears, insert the Windows 98 CD-ROM into the CD-ROM drive. Then click on the **OK** button.



- If the following window appears, select the drive where the Windows 98 CD-ROM is inserted. Then click on the **OK** button.



6. When the following window appears, click on the **Yes** button.



7. Installation of the REX-CBS51 is complete.

2-4. Verification of proper installation

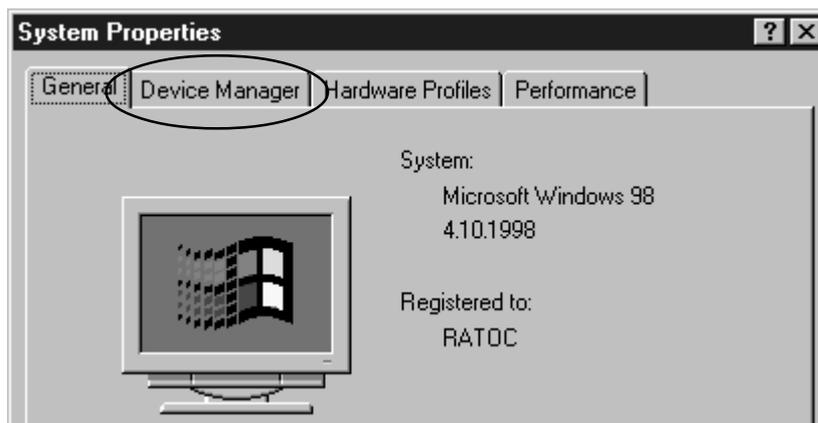
1. Click on the **Start** button, select **Settings** and then click **Control Panel**.



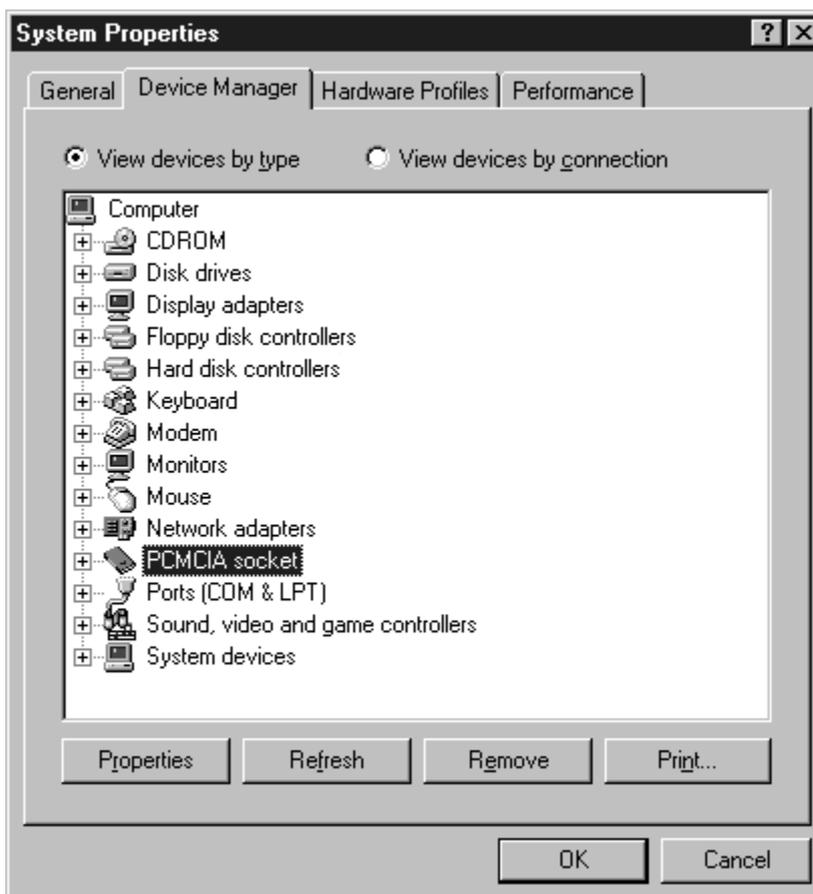
2. Double click on the **System** icon.



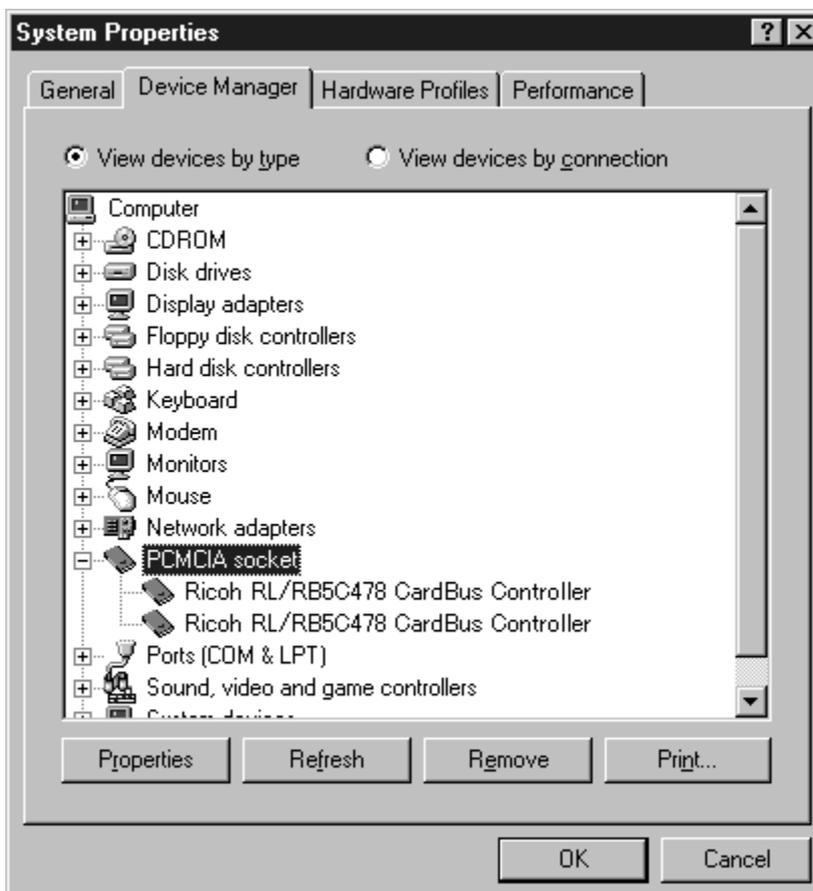
3. Click on the **Device Manager** tab.



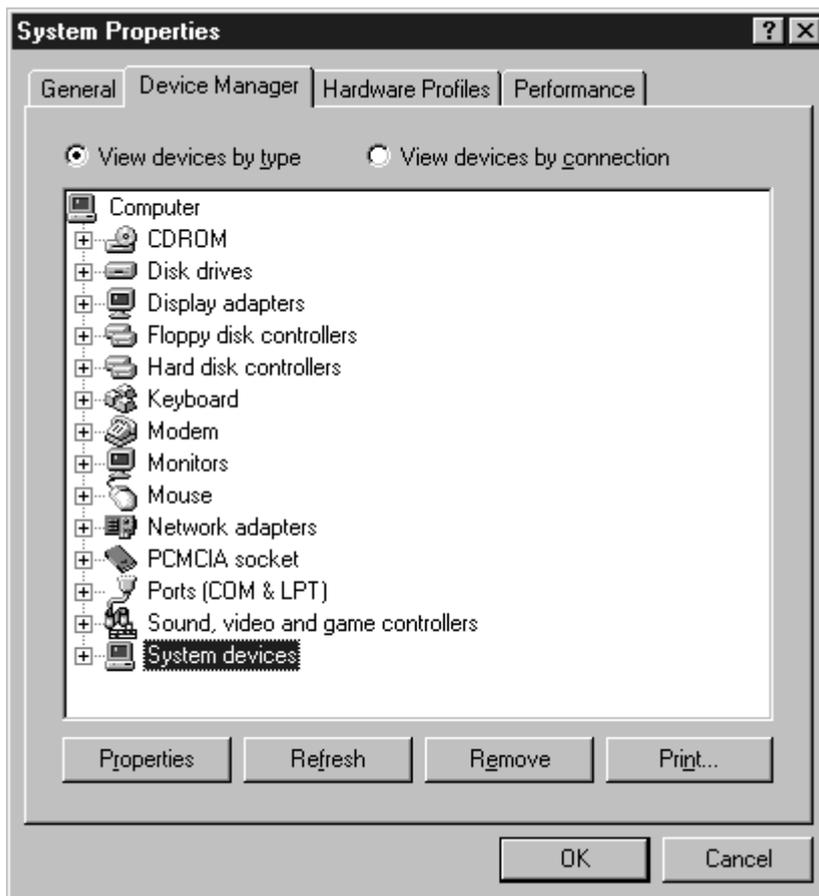
4. Double click on **PCMCIA socket**.



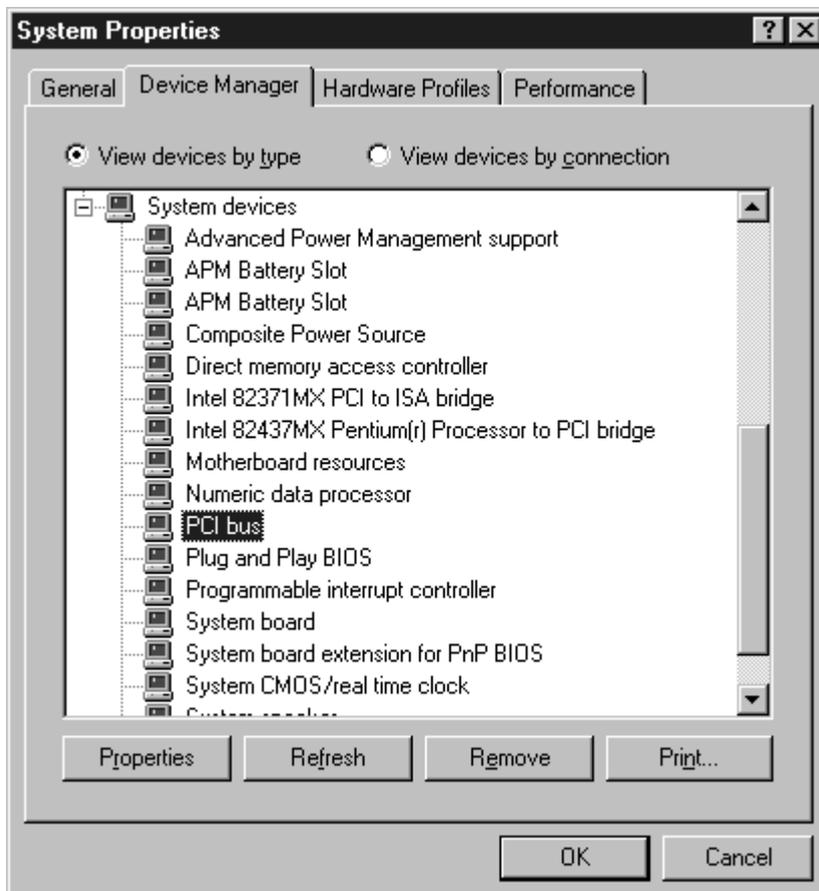
5. If **Ricoh RL/RB5C478 CardBus Controllers** appear under **PCMCIA socket** in the list, the REX-CBS51 is installed properly.



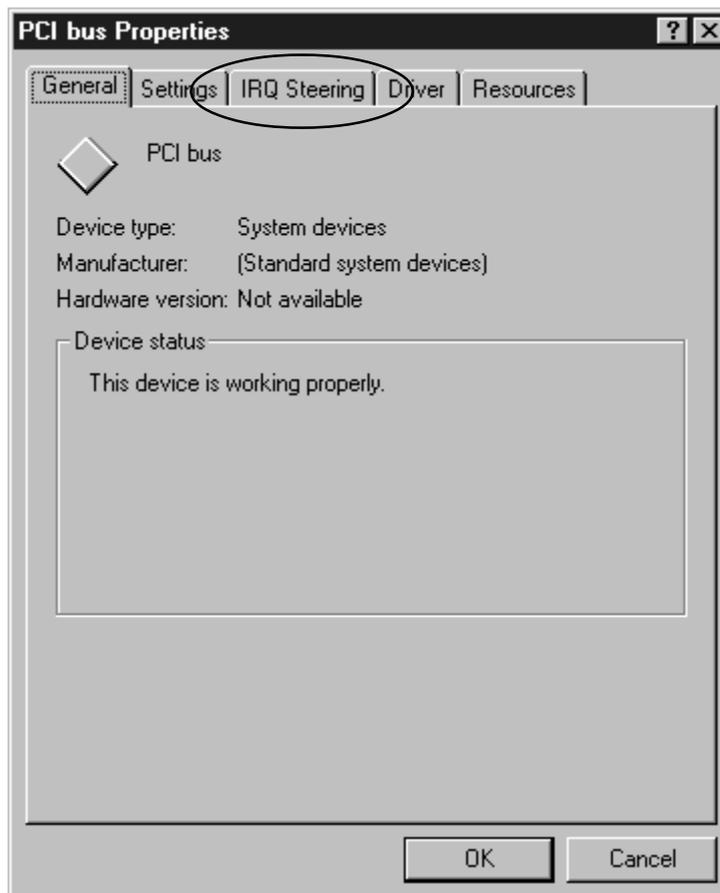
6. Then, double click on **System devices**.



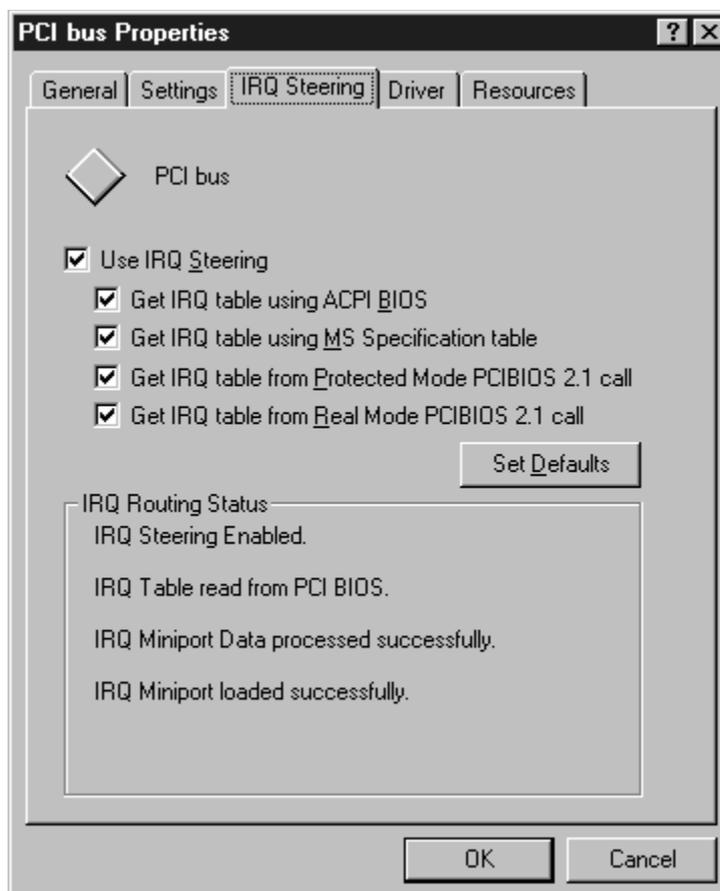
7. Double click on **PCI bus**.



8. Click on the **IRQ Steering** tab.



9. If **IRQ Steering Enabled** appears under **IRQ Routing Status**, you can use the REX-CBS51.



NOTE

- If **IRQ Steering Disabled** appears under IRQ Routing Status, contact RATOOC Systems. E-mail address is **int-support@rexpccard.co.jp**.

3. Using PC Cards

3-1. Before Using 16-bit PC Cards

If you use 16-bit PC Cards, IRQ to which the PC Card is allocated needs. Before using 16-bit PC Cards, check to see that free IRQ exists at your PC.

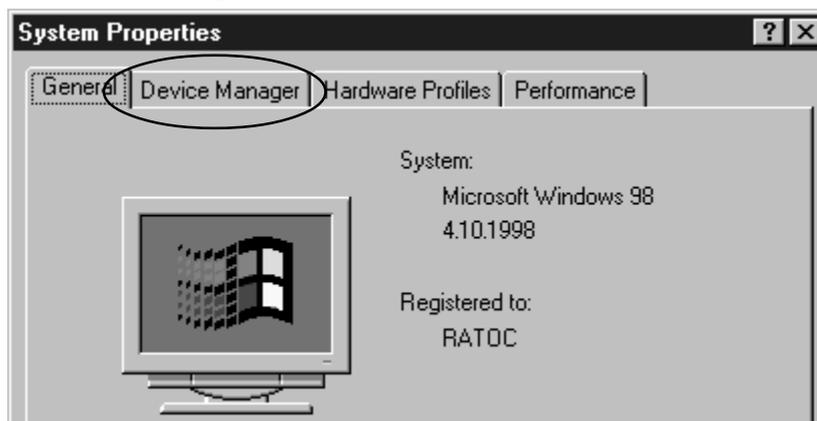
1. Click on the **Start** button, select **Settings** and then click **Control Panel**.



2. Double click on the **System** icon.



3. Click on the **Device Manager** tab.



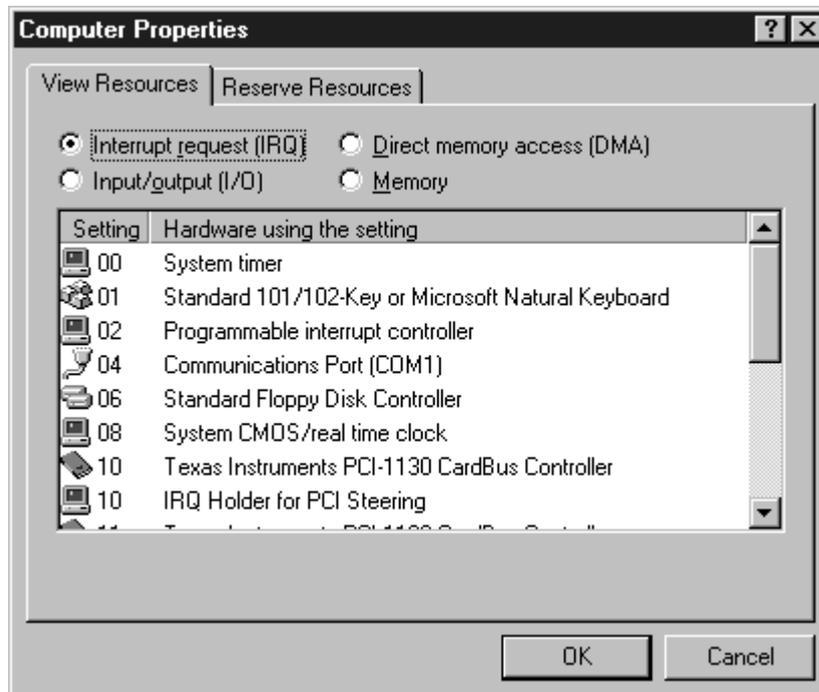
3. Using PC Cards

4. Double click on **Computer**.



5. Check to see that free IRQ exists. IRQ of from 00 to 15 can be used.

In this example, 03, 05 and 07 are free.



3-2. Using PC Cards with the REX-CBS51

SCSI PC Cards (e.g. REX-CB31U, REX-9530U)

When the PC Card is inserted, Add New Hardware Wizard will appear and you will be able to install the PC Card. For more information, refer to a manual of the PC Card.

Network PC Card (e.g. REX-CB81U)

When the PC Card is inserted, Add New Hardware Wizard will appear and you will be able to install the PC Card. For more information, refer to a manual of the PC Card. Though a network board has already installed, you can use the network PC Card. You can choose network hardware every network protocol.

FLASH PC Cards, CompactFlash, SmartMedia

When the PC Card is inserted, the driver will be loaded and you will be able to use the PC Card. If the FLASH PC Card needs to be formatted, click on the drive icon which is allocated to the FLASH PC Card in the My Computer folder with the right mouse button, then select Format from the pop-up menu. For more information, refer to a manual of the PC Card.

ATA hard disk PC Card

When the PC Card is inserted, the driver will be loaded and you will be able to use the PC Card. If the ATA hard disk PC Card needs to be formatted, click on the drive icon which is allocated to the ATA hard disk PC Card in the My Computer folder with the right mouse button, then select Format from the pop-up menu. For more information, refer to a manual of the PC Card.

Other PC Cards

MODEM PC Cards, ISDN PC Cards and Video Capture PC Cards can be used with the REX-CBS51. For more information on using these PC Cards, refer to manuals of the PC cards.

4. Troubleshooting

4-1. System Board Device Resource Conflict

"System Board Device Resource Conflict" appears when starting PC!

Solution

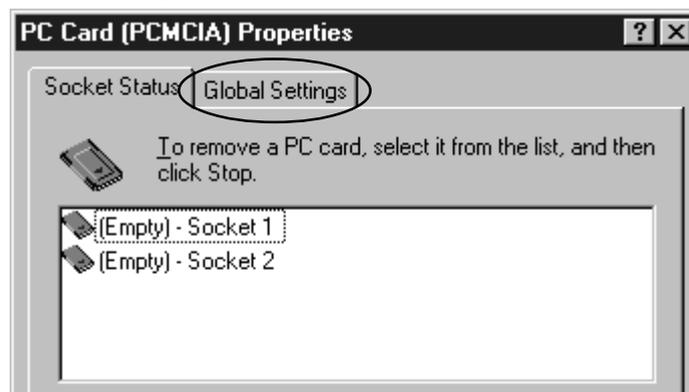
1. Click on the **Start** button, select **Settings** and then click **Control Panel**.



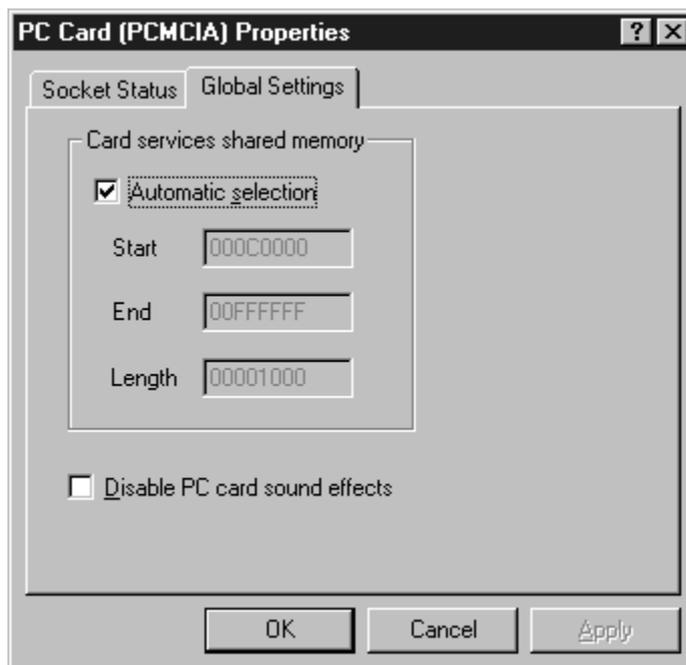
2. Double click on the **PC Card (PCMCIA)** icon.



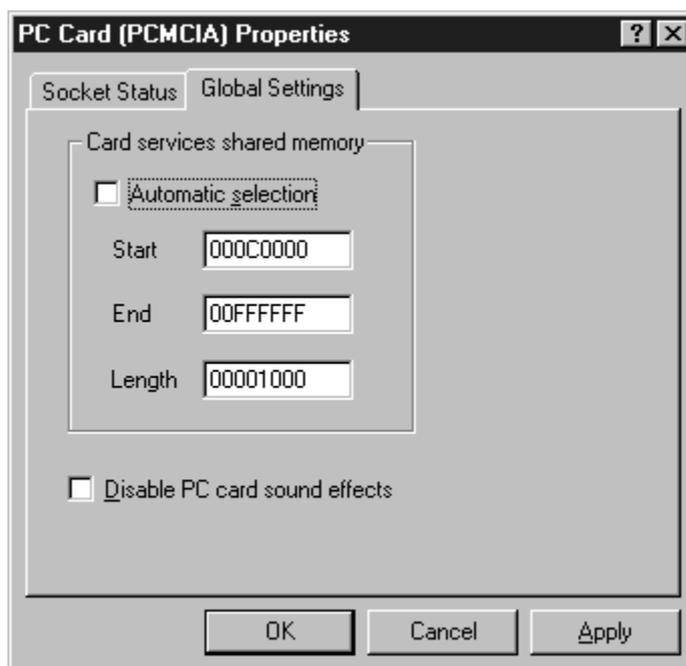
3. Click on the **Global Settings** tab.



4. Clear **Automatic selection** under **Card services shared memory**.



5. Specify the **Start**, **End** and **Length** of memory segment. Then click on the **OK** button.
6. Restart the PC.



NOTE

If other boards such as SCSI boards use memory window, specify memory segment which does not conflict with that of other boards.

4-2. No free IRQ

There is no free IRQ in my system!

Solution

Though no free IRQ is in the list, you can use CardBus PC Cards. If you use 16-bit PC Cards, free IRQ is needed. Free IRQ by disabling a device which is not used. For more information about disabling devices, refer to the PC manual.

4-3. Name of PC Card is not displayed

When a 16-bit PC Card is inserted into the REX-CBS51, though Empty disappears in the list in the PC Card (PCMCIA) Properties window, but a name of the PC Card is not displayed!

Solution

Change the memory window of the device which conflicts with the REX-CBS51 or that of the REX-CBS51. To change the memory window of the device, refer to the device's manual. To change the memory window of the REX-CBS51, refer to the instructions in page 17.

5. Specifications

Slot configuration

2 slots;

Accepts two TypeII PC Cards simultaneously, or one Type III PC Card alone

Physical characteristics

CardBus Bridge board 140mm (L) x 98mm (W)

ISA-IRQ routing board 134mm (L) x 32mm (W)

Power requirements

150mA, +5V DC

Operating environments

Temperature from 0°C to 55°C

Relative humidity 95% maximum (Non-condensing)

PC Card support

Solid state memory cards, I/O cards (such as modem, LAN, SCSI and others) and mass storage hard drives

REX-CB31U, REX-CB81U, REX-CBFW1U, REX-SMA01U, REX-9530U