

INTRODUCTION

About This User's Guide

This guide will explain how to install, configure, and use your PCMCIA Card Drive product. Please read the hardware installation section and the relevant software installation section before installing the AC9003-R2.

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About This User's Guide

This guide will explain how to install, configure, and use your PCMCIA Card Drive product. Please read the hardware installation section and the relevant software installation section before installing the AC9003-R2.

About This Product

The AC9003-R2 PCMCIA Card Drive is a high performance PC Card reader/writer that complies with PCMCIA release 2.1 & up as well as JEIDA 4.1 standards. Type I, II, and III PC Cards are all supported.

The AC9003-R2 can be used with all commonly used operating systems such as Dos & Windows 3.1x, Windows 95/98, Windows NT 3.5X & 4.0, and OS/2 Warp 3.0 & 4.0.

System Requirements

- * An IBM PC compatible computer with a minimum 80386 CPU.
- * Hard disk drive with at least 5 MB free space.
- * One free 16 bit ISA Bus card slot.
- * 3.5 inch floppy disc drive.
- * Dos & Windows 3.1x, Windows 95/98, Windows NT 3.5/4.0, or OS/2 Warp 3.0/4.0.

Package Contents

- * Interface adapter.
- * Drive unit (two sockets).
- * Flat ribbon cable assembly.
- * Mounting screws (6).
- * User's Guide.

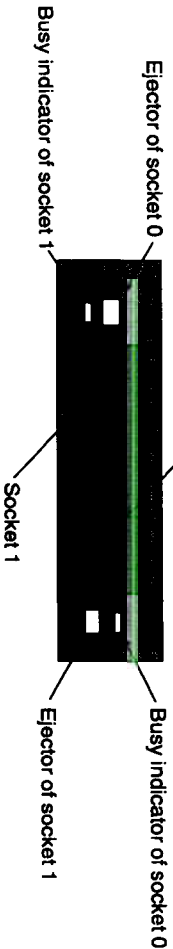
PCMCIA CARD READER WRITER

HARDWARE INSTALLATION

Installation

This PCMCIA Card Drive uses friendly access to the PC. The 3.5 inch front Drive Unit with built-in two sockets is connected to the Interface Adapter by using the flat ribbon cable. This PCMCIA Card Drive provides two front-access PCMCIA sockets solution for the desktop PC. There are two Type I and II PC Card sockets that can be used for one Type III PC Card and one Type I or II PC Card simultaneously in this unit. It will fully support all of your PC Cards. Please refer to the Figure 3 for the location of sockets.

Figure 3. Location of sockets



* If you only install one PCMCIA Card Drive, you will only need to follow the installation instructions and not the jumper settings.

NOTICE: In OS/2 Warp environment, you can only install one PCMCIA Card Drive and will need to change the Sockets Number's default value to 2, 3 (refer to table 2 below).

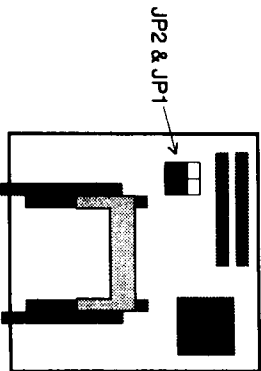
Jumper Settings

There are two sockets on a single PCMCIA Card Drive, however you may add up to four PCMCIA Card Drives in your PC. For this, you need to set the dual jumpers with a different setting for each PCMCIA Card Drive. The jumpers, JP1 and JP2 are shown on the Drive Unit in Figure 4 and the jumper setting are shown in Table 2.

Table 2. Jumper settings

PCMCIA Card Drive	JP2 & JP1	Socket No.
The 1st PCMCIA Card Drive		0, 1 (Default)
The 2nd PCMCIA Card Drive		2, 3
The 3rd PCMCIA Card Drive		
The 4th PCMCIA Card Drive		

Figure 4. Location of the jumper



PCMCIA CARD READER WRITER

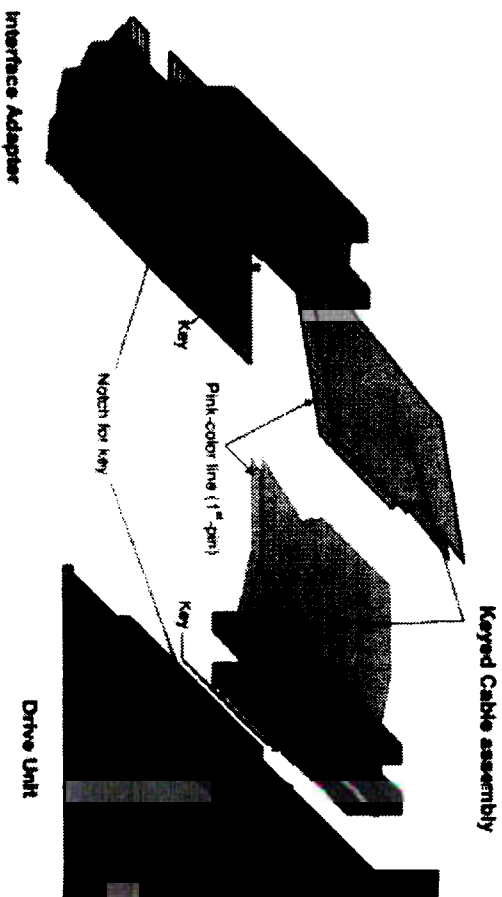
HARDWARE INSTALLATION

Installation Procedure

1. Turn off the power and remove the cover from your computer. For instructions on how to disassemble and reassemble the computer, see the manual that came with your computer.
2. Connect the Interface Adapter and the Drive Unit with the flat ribbon cable assembly provided. The flat ribbon assembly is keyed and there is a notch on the dual connector of the Interface Adapter and Drive Unit, this will prevent incorrect insertion (refer to Figure 5).
3. Insert and push the Interface Adapter into any free 16-bit ISA bus extension slot of your computer. Once it is in the place, secure it with a mounting screw.
4. Slide the Drive Unit into a drive bay of your computer and secure it with the six screws provided.
5. Make sure the cable is correctly connected to the Drive Unit and Interface Adapter.
6. Replace the cover on your computer and reconnect the power cord and all cables.

The hardware installation is complete.

Figure 5. Flat Ribbon Cable connection



SOFTWARE INSTALLATION

This section explains how to install the PCMCIA Card Drive in DOS & Windows 3.1 X, Windows 95, Windows NT and OS/2 Warp's environments.

Notice: Please confirm the hardware installation was complete and remove any PC Cards that are in the PCMCIA sockets before installing software.

In DOS & Windows 3.1X

BIOS Setting Note

Before you are going to install the software, please check the BIOS setting and disable the PNP OS installed item in the PNP and PCI Setup option.

* Following is the example for AWARD BIOS

1. Turn on the computer and press to enter CMOS setup utility.
2. If you can see **PNP and PCI CONFIGURATION** or **PNP and PCI SETUP** option in the main menu, click it otherwise exit the setup.
3. If **PNP OS Installed** item is available, please select **NO**.
4. Save and exit setup.

* Following is an example for AMI BIOS

1. Turn on the computer and press to enter BIOS setup utility.
2. If you see **PC/PNP Setup** option in the main menu, click it otherwise exit the setup.
3. If **Plug and Play Aware O/S** item is available, please click **NO**.
4. Save and exit setup.

NOTICE: For other BIOS, such as PHOENIX < etc., please follow their setting procedure.

Drivers

This Package includes a driver to support DOS & Windows 3.1X

environments. The DOS versions' PCMCIA services software **CardSoft** is manufactured by SystemSoft. It also comes from the **CardView**, a PCMCIA control and maintain utility for Microsoft Windows, and it works side by side with CardSoft allowing you to configure and control your PCMCIA cards easily while in the windows.

Installation Procedure

1. Start the computer. Insert the supplied diskette (CardSoft & CardView) into the drive A: or B:.
2. If you are a **DOS user**, type **A:INSTALL** or **B:INSTALL** in the **DOS** prompt and enter. If you are a **Windows user**, start up **Windows** now. From the Program Manager, select **File** and click **Run**, and then type **A:INSTALL** or **B:INSTALL** when asked for the file name and press **Enter**.
3. Follow the instructions that appear on screen. If you have problems or questions, refer to the CardSoft User's Guide from the supplied diskette.
4. If you are a **Windows User**, you will probably want to install **CardView** after the **CardSoft Installation** is complete. To install the **CardView**, start up the **Windows**. From the Program Manager, select **File** and click **Run**, and then type **A:INSTALL** or **B:INSTALL** when asked for the file name and press **Enter**. When the **CardView** program appears, follow the directions on screen. If you have problems or questions, refer to the **CardView User's Guide** from the supplied diskette.

Software Documentation

The supplied diskette contains the software documentation which is written into four files, they are located in the **Doc sub-directory** as described below.

```
CSUG - DOC.EXE..... CardSoft User's Guide
CVUG - DOC.EXE..... CardView User's Guide
CSTR - DOC.EXE..... CardSoft Technical Reference
README.DOC..... Using PC Cards and Troubleshooting
```

Above files will be decompressed to MS - Word format by executing them under the DOS environment except **README** under **Windows** environment. Meanwhile, the **CSUG** and **CVUG** are enough for user's concerns. Normally you would not need them unless you have a problem when using PC Cards.

Verify Memory Manager

During the installation procedure, if one of the following memory managers is detected, a warning screen will be displayed, as shown on page 7. Also shown on this screen will be the "Device" line, for your memory manager, which needs to be added to your config.sys file.

EMM386 QEMM 386MAX

The CardSoft 3.1 Install Utility has detected the presence of the EMM386 memory manager. In order for Cardsoft 3.1 to function properly, certain ranges of memory need to be excluded from this memory manager. If you wish to ensure proper functionality of the CardSoft 3.1 drivers we suggest you add the switch X=D000-DFFF. After this installation is complete, please edit the line in your CONFIG.SYS file to appear as below

DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-DFFF

Press [Esc] to quit, any other key to continue

If you see this screen (or a similar screen), write down the displayed DEVICE line. When the installation has completed, change the memory manager device line in your CONFIG.SYS file to match the one displayed on the screen. To edit or display your CONFIG.SYS file, type command Edit CONFIG.SYS at the DOS prompt. If you are using the EMM386 memory manager, look for a line similar to the following (if you do not see a line like this, then you are not using EMM386 on your system)

device=emmm386.exe

To exclude the address range D000-DFFF, change this line as shown here (this is what is displayed on the installation screen if EMM386is detected)

device=emmm386.exe noems x=d000-dfff

If you are using a memory manager other than those listed, refer to the manual you received with your memory manager for instructions on how to exclude an address range.

Verify Installation

Before using the PC card, you should verify your installation. After the software installation, your CONFIG.SYS file will include command lines as shown below. The default directory is /CARDSOFT.

Please check the following step by step.

```

DEVICE=C:\CARDSOFT\SSVIA.EXE
DEVICE=C:\CARDSOFT\CS.EXE
DEVICE=C:\CARDSOFT\CSALLOC.EXE
DEVICE=C:\CARDSOFT\ATADRV.EXE
DEVICE=C:\CARDSOFT\MTAA.EXE
DEVICE=C:\CARDSOFT\MTAB.EXE
DEVICE=C:\CARDSOFT\MT11.EXE
DEVICE=C:\CARDSOFT\MT12P.EXE
DEVICE=C:\CARDSOFT\MTATM.EXE
DEVICE=C:\CARDSOFT\MTSRAM.EXE
DEVICE=C:\CARDSOFT\MTDDRV.EXE
DEVICE=C:\CARDSOFT\SSMSFLSH.SYS
DEVICE=C:\CARDSOFT\FTL.EXE
DEVICE=C:\CARDSOFT\CARDID.EXE
    
```

The line 5 to 9 and 12 to 13 are included only while the supplied software disk contains optional FFS2 or FTL format. The FFS2 (Flash File System version 2.0) is for Microsoft system and the FTL (Flash Translation Layer) format is for SystemSoft system.

Make sure all the devices have been loaded successfully. After verifying the content of CONFIG.SYS file, reboot the system. Look up the proceeding of loading all devices. Make sure you do not see any error message.

Check resources of the system. A CSALLOC Utility scans the system for the available PC Card resources such as memory (MEM), I/O Port (IOP), and Interrupt Request Line (IRQ). At the CardSoft directory, type **CSALLOC/r** and press enter. A list will look like the following.

```

MEM:  D000-DFFF
IOP:  108-1EF, 1E8-377, 380-3EF, 970-977, B70-B77, D70-D77, F70-F77
IRQ:  3, 5, A-C, E, F
    
```

None of the 3 lines above can be absent

Once CardSoft has identified and resolved the configuration issue, it will be able to automatically configure the card properly each time it is inserted.

In Windows 95

Windows 95 has built-in PCMCIA support. Windows 95 supports the PCMCIA Card Drive and it will help you set up this new hardware on your system. However, the following procedures must be used upon initial hardware set-up. Please ensure you change the resources settings of the PCMCIA Socket (as detailed below) immediately after the Installation Procedure is completed. For more detailed information, please refer to Windows 95's manual or on-line help.

If Windows Explorer does not show PCMCIA Drive. Click **Start, Help**, and type in PC and read the windows Help File

Installation Procedure

1. Start Windows 95.
2. Click the **Start** button, point to Settings, and then click **Control Panel**.
3. Double click **Add New Hardware**, and then click **Next** from the Add New Hardware Wizard window.
4. Choose **No**, and then click **Next**.
5. Double click **PCMCIA socket**. A Manufacturer & Model dialogue boxes will appear, double-click **PCIC** or **compatible PCMCIA controller**. A Resources type & Settings dialogue box will display.
6. Click **Next**, and then click **Finish**. A system Settings Change window will display.
7. Click **Yes** to reboot Windows 95. Software installation is complete.

Resources Settings

We recommend configuring the Host Interface Card/Interface Adapter in polling mode instead of IRQ mode to prevent IRQ conflict.

1. Click the **Start** button, point to settings, and then click **Control Panel**.
2. Double click **System**, and then select **Device Manager** folder tab.
3. Double click **PCMCIA socket**, and the double click **PCIC** or **compatible PCMCIA controller** under the PCMCIA Socket.
4. Select **Resources** folder tab, and then take out the **Use automatic settings** check mark. In the **Setting based on:** dialogue box choose the **Basic configuration 1** by clicking down arrow and then click **OK**. A **Creating a Forced Configuration** window will appear.
5. Click **Yes** and close the other two windows.

NOTICE: If you are using PCMCIA Hard Disc or Flash ATA card, you should go to CMOS to disable the Secondary IDE Port.

9.

In Windows NT

Windows NT contains built-in PCMCIA support. Windows NT supports the PCMCIA Card Drive and it can help you set up this new hardware on your system. The PCMCIA Card Drive can be automatically installed during Windows NT installation or it can be installed through the following steps after Windows NT installation.

Installation Procedure

1. Start Windows NT.
2. Click the **Start** button, point to Settings, and then click **Control Panel**.
3. Double click **Devices**, a dialogue box will appear with alphabetical order.
4. Click the **down arrow** to find PCMCIA, you will see it was disabled under the **start-up**.
5. Select **PCMCIA**, and then click **Start-up** button.
6. Choose **Boot** instead of disable, and then click **OK**.
7. Click **Close** button and restart your computer.

ALWAYS turn off your computer before removing or inserting a PCMCIA card.

NOTICE: If your PCMCIA Card does not work functionally, you may need to have Microsoft's Service pack. Also, not all PCMCIA Cards are supported under Windows NT.

In OS/2 Warp

OS/2 Warp provides software support for PCMCIA hardware. OS/2 Warp supports the PCMCIA Card Drive and it can help you set up this new hardware on your system. PCMCIA Card Drive can be automatically installed during OS/2 installation to select INTEL_PCIC (it should be known as compatible system) for PCMCIA Support or it can be installed through the following steps after OS/2 Warp installation.

Installation Procedure

1. Start the OS/2 Warp
2. Open **OS/2 System, System Set-up, Install/Remove**, and **Selective Install**.
3. Click **Next** when the System Configuration window is displayed. Select the check box to the left of **PCMCIA Support** to display the Select PCMCIA System window.
4. Select the **INTEL_PCIC** (it should be known as compatible system), click **OK** and then follow the instructions on screen.
- 5.