MiniZip

User Guide

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FCC WARNING STATEMENT

This equipment has been tested and found to comply with the requirements for a class B digital device pursuant to Part 15 of the FCC regulations. These requirements are designed to provide reasonable protection against harmful interference in a residential area. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the manufacturers instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular environment. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment on and off, the user is advised to try to correct the interference by one or more of the following methods.

- Reorient or relocate the receiving units antenna
- Increase the distance between the equipment and the receiver
- Connect the equipment to a different power outlet other than the one where the receiver is connected * Consult a certified television or radio technician

WARRANTY

In no event will the manufacturer be liable for direct, special, incidental or consequential damages arising out of the use or inability to use this product or documentation even if advised of the possibility of such damages. In particular the manufacturer shall not be liable for any hardware, software or data stored or used with the product including any costs of repairing, replacing or recovering such hardware, software or data. Product names mentioned in this user guide are trademarks of their respective owners. *All specifications are subject to change without notice. The limited warranty period should appear on your warranty card, if not contact your retailer for any information about the limited warranty.

The warranty does not apply to:

- Damages or problems resulting from misuse, abuse, accident, alteration or incorrect electrical current or voltage.
- Any product without warranty or serial number label, or delivered without its warranty card.

INTRODUCTION

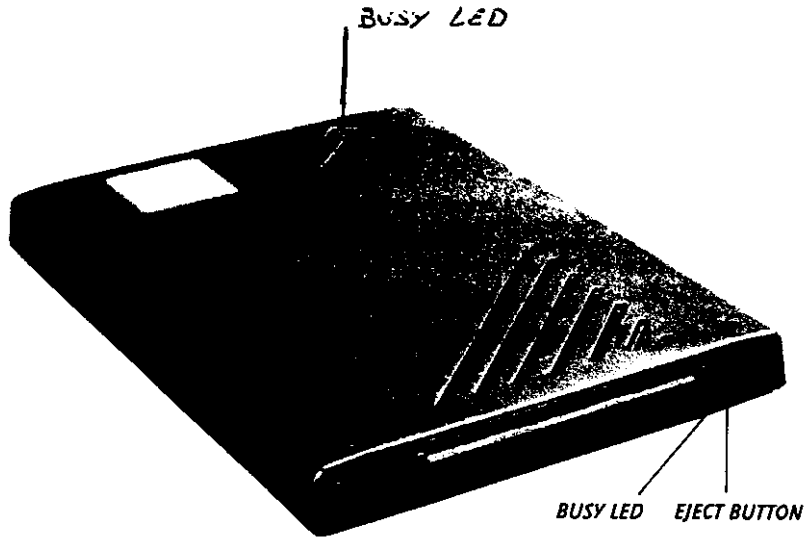
This PC Card MiniZip drive has been designed to use on the move with a notebook or desktop computer without the standard external AC power adapter supplied with standard Zip™ drives, or the ZipPlus™.

It incorporates a patented Power Management System which allows it to draw sufficient power directly from the PC Card slot to run the drive normally giving you unlimited mobile storage on the move.

On those Notebooks not providing sufficient output via the PC Card socket to power the drive, a separate PS/2 (Mouse port) cable is supplied, which should be connected between the power connector on the drive and MINI-DIN socket on the Notebook normally reserved for adding a mouse.

PART NAMES AND FUNCTIONS

FRONT AND TOP VIEW



HARDWARE AND SOFTWARE INSTALLATION

Refer to the instructions given in the following sections, or in the 'Read Me' files corresponding to each operating system in the installation disk provided.

- WINDOWS 95: ReadW95.txt,
- DOS 6.2 & WINDOWS 3.1: ReadW31.txt,
- WINDOWS NT 4.0: ReadWNT.txt.

WINDOWS 95

Windows 95 Hardware Installation

Locate the PC Card (alias PCMCIA) slot on your computer, if you have more than one PCCARD slot, you should use the lower one enabling you to use other PC Card extensions in the upper slots.

Insert the PC Card into the notebook's PC Card slot, if all slots are occupied, remove at least one of the PC Card peripherals.

Please, note that under WINDOWS 95, the MiniZip is hot removable: it can be inserted or retrieved while the the system is active. Howewer, YOU MUST STOP the PC Card using the tool in the Control Panel prior to retrieving the card.

Windows 95 Software Installation

Installing the Windows 95 drivers

When the MiniZip is first connected via one of the PC Card sockets and once the PC Card socket hardware has been mounted by Windows 95, the Installation Wizard will pop up a dialog box titled 'NEW HARDWARE FOUND', with the following message:

> Windows has found a New Hardware and is installing the software

A second dialog box will then promptly appear asking you to select which driver you want to install for your new hardware from the following options:

- Windows default driver,
- Driver from disk provided by hardware manufacturer,
- Do not install a driver,
- Select from a list of alternative drivers.

Select the first option, 'Windows default driver' and follow the instructions given by the Installation Wizard. The MiniZip drive should be recognized after installation without rebooting and each time you reinsert the PC Card this will be indicated by a 'beep' sound following insertion and you will see a small PC Card icon on the bottom right hand corner of your screen.

If by mistake, you have installed a driver other than the 'Standard ESDI/IDE driver', you can verify this by looking at the list of installed hardware in your System's DEVICE MANAGER under 'Hard Disks' (Control Panel / System / Device Manager / Hard Disk Controllers). This driver should be removed from the list, then reinsert the PC Card into the appropriate slot and start the installion anew.

There should be two new entries in the list of devices displayed by the 'DEVICE MANAGER', one under the heading 'Disk Drives' which shows the model of ZIP drive (e.g. IOMEGA ZIP 100) and another entry under 'Hard Disk Controllers' with the name of the device driver 'Standard ESDI/IDE Drive Controller'. In most cases, there should be at least two such entries, one for the internal IDE hard drive and another for the MiniZip drive.

Installing the Iomega Tools

If you have a ZIP disk with the IOMEGA Tools, you may now install the ZIP TOOLS from the ZIP TOOLS disk. Proceed as indicated in the IOMEGA manual or ZIP disk.

Troubleshooting

If the installation of the drivers was not successful, read carefully the following:

Removing the Old DOS PCMCIA Software Layer

If the DOS PC Card software layer was already installed on your machine when Windows 95 was first installed, you should be able to edit the CONFIG.SYS file and see that the lines concerning the PC Card socket drivers have been REMarked out. Normally, the Windows 95 Installation Wizard REMarks out these lines when it detects both a Plug & Play PC Card hardware and a Plug & Play machine BIOS at installation time.

There are at least two such lines, one for the Socket Services driver and the other for the Card Services driver. An example is given below:

'REM Socket Services Driver : DEVICE = XXXXSS.SYS'
'REM Card Services Driver : DEVICE = XXXXCS.SYS'

If these lines are not REMarked out in CONFIG.SYS, you should try again to install the appropriate Windows 95 PC Card Socket Driver from the Windows 95 'Control Panel' running the program 'Add New Hardware'. If this does not succeed, i.e. if the above lines are not eventually REMarked out, this probably means that your machine does not support Plug & Play PC Card and that you can only instaltraditionnal so-called 'REAL MODE DOS drivers'. In this case, follow the manuals instructions to install the DOS and Windows 3.1.X drivers which should still work fine under Windows 95 in REAL MODE.

To check that the PC Card socket hardware has been dully recognized and installed by the Windows 95 Installation Wizard, you should see your PC Card socket hardware in the list of installed devices given by the 'Device Manager' (click on 'System' in the 'ControlPanel' and then 'Device Manager' to display the list of installed devices).

Resolving possible IO PORT or IRQ conflicts

Open 'System' in the 'Control Panel' and click on 'Device Manager'.

Click on 'Hard Disk Controllers' in the 'Device Manager'.

If the last drive in the list of Hard Disk Controllers is marked with a yellow question or exclamation mark, click on it. Now select 'Resources' in the 'Properties' panel (General/Resources).

The 'Resource Settings' selected by Windows 95 to configurate the MiniZip drive are now displayed in the central box of the 'Properties' panel. Check the following :

- the 'Input/Ouput Range' of ports used should not be below 0110-011F. 0110-011F, 0120-012F, 0130-013F, ... and above are valid ranges.
- the 'Interrupt Request' number selected should induce no 'Interrupt Conflict' displayed in the lower box of the 'Properties' panel. If the range of ports is not as above or if an Interrupt conflict is reported, untick the the box 'Use Automatic Settings' and double click on the settings that you would like to change (IO Range or Interrupt Request).

A new panel appears to edit the 'Value' to be changed. Use the UP and DOWN arrows on the side of the 'Value' box to find a configuration with no conflict.

Save the settings, close the 'Device Manager' and the problem should be fixed.

DOS & WINDOWS 3.1

DOS & Windows 3.1 Hardware Installation

Locate the PC Card slot (alias PCMCIA slot) on your computer. If you have more than one PC Card slot, you should use the lower one enabling you to use other PC Card extensions in the upper slots.

Insert the PC Card into the notebook's PC Card slot. If all slots are occupied, remove at least one of the PC Card peripherals.

Please, note that under DOS and WINDOWS 3.1, the MiniZIP is not hot removable: it must not be retrieved or inserted while the the system is active. The PC Card must be inserted before booting up the computer.

DOS & Windows 3.1 Software Installation

Run the program 'InstDOS' from the 'INSTALL' diskette in order to install the DOS & Windows 3.1 drivers for the MiniZIP. Enter the following command from the DOS prompt:

```
A:INSTDOS
```

INSTDOS first checks the installation of the standard ZIP TOOLS (Iomega™) in your computer :

1. If the ZIP TOOLS have not yet been installed, it will create the default directory 'C:\ZipTools', copy the necessary drivers to this directory and update the system files (C:\CONFIG.SYS, C:\AUTOEXEC.BAT and C:\ZIPTOOLS\GUEST.INI).
2. If the ZIP TOOLS are already installed, it will copy the MiniZIP drivers to the ZIPTOOLS directory and update the above system files.

After running INSTDOS, reboot your system for the changes to take effect.

Installing the Iomega Zip Tools

If you have a ZIP TOOLS disk, follow the instructions on the disk to install the TOOLS from the Iomega ZIP TOOLS disk. If the version of your ZIP TOOLS is too old, it may happen that the MiniZIP drive is no longer recognized after installation of the ZIP TOOLS on your computer. In this case, simply run INSTDOS again to update the system files again.

System files

The following lines are appended to the CONFIG.SYS file:

```
REM ———— Slim ZIP ————————
[COMMON]
LASTDRIVE=M
DEVICE = C:\ZIPTOOLS\ARCMZP.SYS
REM ———— Slim ZIP ————————
```

and the AUTOEXEC.FILE is updated to run GUEST.EXE, the IOMEGA ASPI driver

```
REM ———— Slim ZIP ————————
C:\ZIPTOOLS\GUEST.EXE
REM ———— Slim ZIP ————————
```

Finally, the GUEST.INI file, located in the ZIPTOOLS drirectory, is updated to include the ASPI manager corresponding to the PC Card IDE/ATAPI Slim ZIP drive:

```
ASPI = ASPIMZP.SYS /INFO
```

Ports and IRQ

The driver AZCMZP.SYS located in the CONFIG.SYS file displays the base port address used to configurate the drive together with its copyright banner:

(C) Archos 1997 - All rights reserved'

PC Card Slim Zip Driver Installed

Port Address = 0120h

In most cases, the Base Port Address is 120.

If this address is not available, an alternative configuration will be displayed.

If the following message is displayed:

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PC Card Slim Zip Driver Dumped,

ARCMZP.SYS did not managed to install the driver necessary to configurate the drive. This probably means that for some reason, the PC Card software layer is not installed correctly. Refer to the vendor's manual in order to find out how to set up the PC Card software and read the advice below.

Tips to configurate the PC Card services

If your computer is fitted with PC Card slots, a PC Card software layer should be supplied by the computer vendor. If not, contact your vendor or the computer manufacturer to get the appropriate PC Card support software.

If the PC Card software is not correctly installed and configured, no PC Card peripheral will work on your computer.

Most computers with PC Card slots are supplied with PC Card sofware layer installed and configured. If not, read the instructions on the PC Card software manual to install the PC Card software on your computer.

On some occasions, even after the automatic installation went well, and depending on the PC Card software, some manual modifications of the CONFIG.SYS and AUTOEXEC.BAT files may be necessary.

Like most PC Card peripherals, the MiniZip drive uses I/O ports allocated by the PC Card software to communicate with the PC Card interface.

A minimum of 2 ranges of 8 consecutive port addresses plus 1 must be available for the MiniZip, in the following address ranges (hexadecimal notation):

$120-$127 and $12E, or

$130-$137 and $13E, or

$140-$147 and $24E, etc...

Some manual modification to the PC Card configuration files may be necessary in order to authorize access to these ports.

Some drivers, installed automatically by the PC Card software of your computer may be incompatible with the software. If the drive is not recognized or does not work, try to REMark out from your CONFIG.SYS any other PC Card CD-Rom or Hard Disk driver which may conflict with the MiniZip

```
REM DEVICE=C:\CARDWARE\PCENABLE.EXE
REM DEVICE=C:\CARDWARE\PCDISK.EXE
...
```

or else,

```
...
REM DEVICE=C:\CARDSOFT\ATADRV.EXE
```

PhoenixCARD Manager Plus PC Card Software Layer

If an extended memory manager is installed on your computer, such as Microsoft EMM386, some memory range defined by the PCM Plus software must be excluded. This memory range is indicated in the CONFIG.SYS file as follows:

```
...
REM THIS BLOCK OF REM STATEMENTS SPECIFIES THE NECESSARYEXCLUDE
REM STATEMENTS THAT MUST BE ADDED TO THE COMMANDE LINE OF MEMORY
REM MANAGERS PTJER THAN EMM 386 TO ENSURE PROPER OPERATION OF
REM YOUR PCCARD SOFTWARE. THESE EXCLUDE RANGES SPECIFY THE
REM MEMORY RANGES USED BY THE PCCARD SOFTWARE.
REM ATTENTION : USING NETWORK CARD, EXCLUDING D000-DFFF.
REM X=C800-C8FF
...
DEVICE=C:\DOS\EMM386.SYS NOEMS X=C800-C8FF
DOS=HIGH,UMB
...
REM BY PCM+V3.0 X=C800-C8FF
```

Run the PCMRMAN utility which manages PC Card resources to configure the I/O ports. Refer to the PCM Plus manual supplied by Phoenix to modify the I/O port ranges.

SystemSoft CARDSOFT PC Card Software Layer

The memory range **$D000-$DFFF** in the CONFIG.SYS should be excluded as follows:

```
...
DEVICE=C:\DOS\EMM386.SYS NOEMS X=D000-DFFF
DOS=HIGH,UMB
...
```

The CSALLOC utility must be run after each modification of the configuration and before installing any new PC Card peripheral. CSALLOC creates the CSALLOC.INI file which contains all necessary information on I/O ports and interrupt requests available to PCM

Award CardWare PC Card Software Layer

Refer to the CardWare manual to modify the configuration file CARDWARE.INI. For example :

```
...
\Resources\   MEM=0xCF000,0x1000,E
MEM=0xD0000,0x8000,E
I/O=0x120,0x10,E,10
I/O=0x130,0x10,E,10
I/O=0x140,0x10,E,10
I/O=0x160,0x10,E,10
IRQ=3,E
IRQ=4,E
...
```

WINDOWS NT 4.0

Windows NT 4.0 Hardware Installation

Locate the PC Card slot (alias PCMCIA) on your computer if you have more than one PC Card slot, you should use the lower one enabling you to use other PC Card extensions in the upper slots.

Insert the MiniZip PC Card into the notebook's PC Card slot. If all slots are occupied, remove at least one of the PC Card peripherals.

Please, note that Windows NT Ver 4.0 does not recognize PLUG & PLAY hardware adapters and does not allow hot insertion or removal of PC Cards (PCMCIA cards). You MUST therefore insert the MiniZip PC Card before booting up under Windows NT 4.0.

Windows NT 4.0 Software Installation

Installing the drivers under Windows NT

You MUST install the drivers on your system BEFORE you can install the IOMEGA Tools. You must proceed in two steps as follows:

- First Install the MiniZip drivers as explained below.
- Reboot your machine, and run SETUP from the 'Install Diskette' supplied.

Note that whether or not you wish to install the IOMEGA Zip Tools, you MUST run the SETUP before you can use the MiniZip drive

MiniZip driver installation

- Click 'Start', point to Settings, then click 'Control Panel'.
- Double click 'SCSI Adapters'.
- Select the 'Driver' tab and click the 'Add' button.
- Click 'Have Disk' and insert the 'Install Diskette' into the computer's floppy drive.
- Click 'Browse' and select the drive letter for the floppy drive.
- Double Click on the icon of the folder WinNT, Click 'Open' and Select 'OK'. The path to the NT drivers should be 'A:\WinNT' or 'B:\WinNT' - When the list of adapters appears, highlight the adapter SLIMZIP and click 'Next' to continue.
- Click 'OK' for Windows NT to install the necessary adapter driver on your system.
- Click 'OK' to exit.
- Click the 'SetUp' icon from the INSTALL Diskette whether or not you wish to install the IOMEGA TOOLS.
- Reboot your computer to configure the driver for your system.
- After reboot, the drive should appear as a removable disk drive (C, D, E ...) and not as a floppy drive B. If it displayed as a floppy drive, run the SETUP again from the INSTALL diskette and reboot your computer.

Installing the IOMEGA Tools

To install the IOMEGA Tools, follow the instructions given by the 'SetUp' program and insert a valid ZIP TOOLS disk in the drive.