

## Appendix C

# DRIVER UTILITIES

### Starting Installation

Insert the CD-ROM disk to start software installation and **run LANDesk® Client Manager (LDCM) software first**. Start each of them by clicking on the wanted software item(s) on the main menu.

### LANDesk® Client Manager

The LDCM software for Win 95/NT must be installed in order to use the hardware manager.

### Two Options of the LDCM Setup

**LDCM Local Setup** — install software to monitor the *local* system client. Recommended settings can be auto-detected or changed. The installation is straight forward.

1. Select *LDCM Local Setup* in the main menu.
2. Follow the step-by-step installation process.
3. Reboot the system.

**LDCM Administrator Setup** — install software to monitor PC systems on the *network* server within the same bridge address with local software installed. The installation is straight forward.

1. Select *LDCM Administrator Setup* in the main menu.
2. Follow the step-by-step installation process.
3. Reboot the system.

The administrator should install both the Local and Administrator Software.  
(Hint: first install the *Local Setup*, then the *Administrator Setup*.)

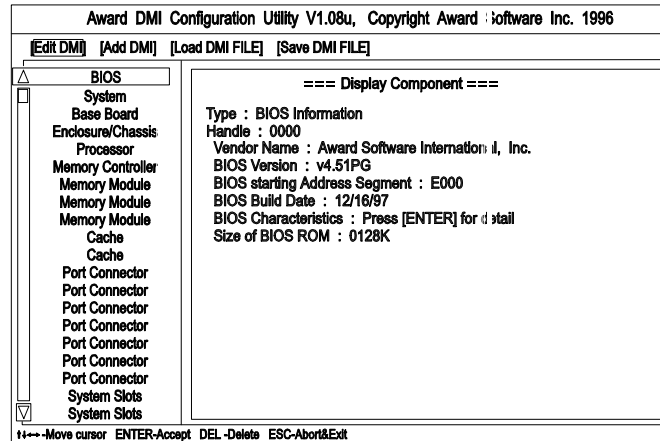
## Desktop Management Interface (DMI)

The mainboard supports DMI within the BIOS level and provides a DMI Configuration Utility to maintain the Management Information Format Database (MIFD). DMI is able to auto-detect and record information pertinent to a computer's system such as the CPU type, CPU speed, internal/external frequencies, and memory size. The onboard BIOS will detect as many system information as possible and store these collected information in a 4KB block in the mainboard's Flash EPROM and allow the DMI to retrieve data from this database. Unlike other BIOS software, the BIOS on the mainboard uses the same technology implemented for Plug and Play to allow dynamic real-time updating of DMI information versus creating a new BIOS image file and requiring the user to update the whole BIOS. The DMI Configuration Utility also allows the system integrator or end user to add additional information into the MIFD such as serial numbers, housing configurations, and vendor information. Those information not detected by the mainboard BIOS has to be manually entered through the DMI Configuration Utility and updated into the MIFD. The DMI Configuration Utility provides the same reliability as PNP updating and will prevent the refreshing failures associated with updating the entire BIOS.

## Starting DMI

1. Format a bootable system diskette and copy the DMICFG.EXE file from the CD-ROM disc to the floppy diskette.
2. Reboot the system by using this bootable system diskette to enter Real mode (DOS).

3. After the DOS prompt appears, type *DMICFG* and press <Enter> key. The following display will appear onscreen.



**Edit DMI** — a menu like the above figure appears onscreen. It provides recorded data about your computer system. This feature allows you to select editable DMI items by pressing the arrow keys. The button *Press [ENTER] for detail* will cause a pop-up sub-menu to appear. Use the <+> or <-> keys to change configurations. Press <Esc> key to abort the configuration and exit or press <Enter> key to save and exit. The screen field under *Show Only Component* means that the items are automatically detected by BIOS. The screen menu under *Edit Component* indicates the items are user-configurable.

**Add DMI** — This menu allows users to add new information such as Manufacturer Name, Product Name, etc.

**Load DMI File** — If users need the old DMI information, use this feature to load the DMI information.

**Save DMI File** — If users need to keep the DMI information that was just changed, use this feature to save the new DMI information.

## Intel PIIX IDE Bus Master Driver

The mainboard package includes the Bus Master IDE Driver in the software utility disk for Windows® 95/NT and OS/2 to improve the overall system performance. Read the related README files first before installing it. This system mainboard supports Ultra DMA/33 but Windows® 95 does not recognize it. When the operating system detects the mainboard and the IDE Bus Master Driver is not installed, the system will treat it as a standard dual PCI IDE controller, not allowing you to take advantage of the Ultra DMA feature. (The attached peripheral devices must support UDMA.)

The installation process is straight forward. Start by clicking on the *IDE Bus Master* item on the main menu. There is no option to be selected while the installation is proceeding. After the installation process, the system should be re-booted.

## BIOS Flash Software

The mainboard package provides a BIOS flash software tool in the software utility CD-ROM disc. This software is used for upgrading the current BIOS used.

1. Run the CD-ROM disc and click on *Browse CD*.
2. Select *Flash* and choose the BIOS vendor that provided the BIOS chip on this mainboard.
3. Print the related README file and read it first.



*Do not turn off or reset the computer during the flash process or if there is a problem.*

If you encounter problems while downloading the new BIOS, DO NOT turn off the system since this might prevent your system from booting up. Just repeat the process and if the problem still persists, upload the original BIOS file you saved to disk.



*If the Flash utility was not able to successfully write to Flash ROM a complete BIOS file, the system may not be able to boot up. If this happens, the system will require service from your dealer.*

## VGA Display Drivers

The ATI RAGE IIC/PRO for Win 95, Win 3.1, Win NT 4.0, Win NT 3.51, and OS/2 VGA drivers have been provided with the installation CD-ROM disc to enable you to take full advantage of the display capabilities of the display monitor while using different application programs. Refer to the README file in the utility CD-ROM disc or ask your dealer for more information or documentation on these utilities and drivers.

## Audio Drivers

**For onboard CrystalClear™ CS4235 sound chip —**

1. Sound Driver (Win 95)
2. Sound Driver Win NT 4.0 / Win NT 3.51
3. Sound Driver OS/2

## CD-ROM Drive Software Drivers (optional)

1. Matsushita (Panasonic) UJDA110 20X CD-ROM drive device driver
2. Matsushita (Panasonic) UJDA150L 24X CD-ROM drive device driver
3. Mitsumi SR200S 20X CD-ROM drive device driver
4. Mitsumi SR240S 24X CD-ROM drive device driver



*The Adobe Acrobat Reader software utility is also included in the utility CD-ROM disc.*

## LAN Controller Driver

The LAN controller driver provide the necessary information and the utilities allowing you to connect with the network environment. These include all the driver installation programs supported by the onboard Intel 82558 Ethernet PCI bus (LAN) chip for Win 95, Win NT 4.0, Win 3.1, DOS, and OS/2.

The controller driver software utilities are located in the different sub-directories. It contains a driver program and the corresponding README.TXT file. Read them for the driver installation procedures.

## Setup Procedures for Diskless LAN Station

Enter the BIOS Setup, under the BIOS Features Setup section make certain that the item Boot From LAN First is set at the default setting of *Enabled*.

The following suggestions provide a way of modification that allows the system to share the resources of the server.

**Setup 1: Enter the commands below on the file server – (In this example, the server's LAN card is NE2000.)**

1. SERVER (Enter)
2. LOAD NE2000 FRAME=ETHERNET 802.2 BOARD=1
3. BIND IPX TO NE2000
4. LOAD RPL
5. BIND RPL TO NE2000

**Setup 2: Place the following commands into the AUTOEXEC.BAT file**

```
set comspec=f:\login\command.com  
  
ls  
  
pci  
  
ipx  
  
netx622
```

The bootable disk must contain the following files –

command.com	autoexec.bat
lsl.com	pciodi.com (provided by Intel)
ipxodi	
netx622.exe (based on MS DOS ver. 6.22 in this case)	

**Setup 3: Execute the following commands on the system –**

1. f: \SYSTEM\DOSGEN A: (Enter)  
(The files server creates *NET\$DOS.SYS*)
2. copy a:\NET\$DOS.SYS f: \PUBLIC (Enter)
3. copy f:\PUBLIC\NET\$DOS.SYS f:\login (Enter)
4. copy a:\command.com f: \login (Enter)
5. Reboot the system (not with drive C: or A:)
6. f:\login\login (supervisor's ID)

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