

## Installation and Upgrade

### 2.1 Overview

This chapter provides guidelines on installing the device drivers for the built-in features of the A360. Most of the driver installation procedures mentioned here are only for Windows 98 / Me and Windows 2000. This chapter also includes procedures on how to upgrade major internal system components like CPU, memory, hard disk, and feature card modules.

### 2.2 Notebook Drivers and Utilities

The notebook requires several device drivers that you need to install and setup before you can fully operate the notebook. These are:

- Phoenix PHDISK Suspend-to-Disk Utility – DOS
- S3 Savage4 (Integrated in Twister) VGA Driver – Windows 98 / Me / 2000
- VIA PCI audio (Integrated in VT82C686B) Driver – Windows 98 / Me / 2000
- Synaptics Touch Pad Driver – Windows 98 / Me / 2000
- O2Micro OZ6933 PCMCIA Driver – Windows 98
- VIA Twister chipset Driver – Windows 98 / Me / 2000
- Easy Button Driver – Windows 98 / Me / 2000
- Easy Mail Driver – Windows 98 / Me / 2000

The notebook also comes with other option devices that requires driver installation:

- Askey 1456VQL19R-4 Data Fax Modem – Windows 98 / Me / 2000
- Ambit Intel 82562EH LAN – Windows 98 / Me / 2000
- Askey Combo Modem / LAN – Windows 98 / Me / 2000



Visit FIC Support website <ftp://pcg.fic.com.tw/NBTECH/> for the latest driver updates.

#### 2.2.1 Running the PHDISK STD Utility

The PHDISK utility (version: 4 .32) of the notebook allows you to create a suspend-to-disk (STD) file or partition that is used to save the opened files when you activate STD mode and power off the computer. If you want to make use of the STD feature under Windows 98, you need first to run the PHDISK utility.



Since Windows Me, Windows 2000, or above version would be enabled Hibernate Mode in place of suspend-to-disk (STD) Mode, it's not necessarily to run the PHDISK utility.

#### Running the PHDISK STD Utility

Load the notebook driver CD, look for the PHDISK program file, and run PHDISK under **Safe mode command prompt only** in windows system. When you execute “**PHDisk.exe**” first time, the program will ask you to choose one action from (1,2,3,4). Action 1 is “Create partition”. Action 2 is “Create File”. Action 3 is “Reboot”. Action 4 is “Exit”. You can use either of the following two options for executing PHDISK utility:

# Installation and Upgrade

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1. **PHDISK /Create /Partition** - you can choose to run Suspend-to-Disk and save your work into an allocated fixed disk partition. This option should be done before partitioning and formatting your hard disk. The advantage of this option is that it is more secure since the files are saved in a separate partition and has no risk of being deleted. The disadvantage of this is that you need to allocate enough disk partition for future memory upgrade. The STD partition should always be larger than the system memory RAM.
2. **PHDISK /Create /File** - you can also choose to run Suspend-to-Disk and save your work into a STD file. You do not need to allocate an extra disk partition when running this option. The advantage of this is that you do not need to allocate or waste extra disk partition. The disadvantage of this option is that it is less secure since there is risk of deleting the STD file although the file is hidden.

It's better to choose action 2 to create the **SAVE2DSK.BIN** file. The program will ask you to input the size of this file. You just only input the value according to the suggestion. After executing "**PHDisk.exe**", you will get some information about the **SAVE2DSK.BIN** file created by PHDISK program. The size of this file will depend on the installed RAM memory of your computer. This file also is hidden and has read-only attributes.

After doing so or executing it next time, the program will ask you to choose one action from (1,2,3,4). Action 1 is "Create File". Action 2 is "Delete File". Action 3 is "Reboot". Action 4 is "Exit". Choose action 1 to create another **SAVE2DSK.BIN** file or action 2 to delete it. After PHDISK has completed the STD partition, you will be prompted to reboot the system.



Whenever you upgrade the memory, you need to delete the existing STD file and create a new one according to the new memory size. Run PHDISK and choose action 2 to delete existing STD file.

## 2.2.2 Installing Windows 98 / Me / 2000 from CD / DVD ROM

This section provides Windows 98 / Me / 2000 installation guide from the CD-ROM or DVD-ROM device.

### Installing Windows 98 / Me from CD-ROM / DVD-ROM

The easiest way to install Windows 98 / Me is to boot from Windows 98 start-up disk. With Windows 98 / Me start-up disk, you don't need to install CD-ROM driver since the start-up disk can support virtually all CD-ROM device. Insert Windows 98 / Me Installation CD into CD-ROM drive and run "**setup.exe**".

If you don't have Windows 98 / Me start-up disk, you need to install CD-ROM /DVD-ROM driver under DOS. Then, insert Windows 98 / Me Installation CD into CD-ROM drive and run "**setup.exe**".

### Installing Windows 2000 from CD-ROM / DVD-ROM

To install Windows 2000 directly from your CD-ROM, insert the Windows 2000 installation CD into CD-ROM drive with following the instructions on the screen to finish the installation. You could go to **Boot** menu of **BIOS** setup menu to confirm the priority of boot device. Use arrow key to select "ATAPI CD-ROM Drive", and then use "+" or "-" to move it to the top. Go to **Exit** menu and select "**Exit Saving Changes**".

# Installation and Upgrade

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## 2.2.3 Installing the VGA Device Driver

Your notebook computer uses the high-performance S3 Savage4 VGA controller, which is an AGP 4x video local bus, 2D/3D Graphic Engine. Following is the procedure for installing the VGA Driver for Windows 98, Windows Me and Windows 2000:

### Installing VGA Driver for Windows 98

1. Boot Windows 98 from your hard disk and insert the disc containing the VGA driver for Windows 98.
2. Click the **Start** button, then click **Settings**, and **Control Panel**. Double click **System** and click **Device Manager** tab. Under **Display Adapters**, you'll see **Standard PCI Graphics Adapter (VGA)**. Select it and double click it.
3. Choose **Driver** button and then click **Update Driver**, **Next**, and **Next** again to search for the driver.
4. Tick **Specify a location** and click **Browse** button. Then, navigate to "**Drivers\Win98\VGA**" and click **Next**.
5. Click **Next** to accept the updated driver for **S3 Graphics Inc Twister** driver.
6. Click **Next** to continue with VGA driver installation.
7. Click **Finish** to complete installation.
8. Restart Computer to finish setting up VGA.

### Installing VGA Driver for Windows Me

1. Boot Windows Me from your hard disk and insert the disc containing the VGA driver for Windows Me.
2. Click the **Start** button, then click **Settings**, and **Control Panel**. Double click **System** and click **Device Manager** tab. Under **Display Adapters**, you'll see **Standard PCI Graphics Adapter (VGA)**. Select it and double click it.
3. Choose **Driver** button and then click **Update Driver**, **Next**, and **Next** again to search for the driver.
4. Select "**Specify the location of the driver**" and click **Next** to continue.
5. Tick on "**Specify a location box**". Then, click **Next** and **Browse** buttons and navigate to the VGA driver location as "**Drivers\WinMe\VGA**". Click **OK** and **Next** to begin searching the driver.
6. The **Update Device Driver Wizard** will found **S3 Graphics Inc. Twister**. Click **Next** to continue installing the driver.
7. Click **Finish** button to finish installing VGA driver and **Yes** to restart the computer.

### Installing VGA Driver for Windows 2000

1. Click the **Start** button, then point to **Settings**, and click **Control Panel**.
2. Double-click on the **System** icon, **Hardware**, and then click on the **Device Manager** folder tab.
3. Under the **Other Devices** line, you will find the **Video Controller (VGA compatible)**, and then **Scan for Hardware Changes** buttons to appear the **New Hardware Found** Message Box.
4. In the Found New Hardware Wizard message box which shows searching **Video Controller (VGA compatible)** driver. Click **Next** to proceed the further step.
5. Select "**Search for a suitable driver for my device**", and click **Next**.
6. Tick on "**Specify a location box**", then, click **Next** and **Browse** buttons, and then navigate to the VGA driver location as "**Drivers\Win2K\VGA**".
7. Click **OK** and **Next** to begin searching the driver. The Add New Hardware will found **S3 Graphics Inc. Twister**.

# Installation and Upgrade

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8. Click **Next** to continue installing the driver.
9. Click **Finish** button to finish installing VGA driver and Click **Yes** to restart the computer.

## 2.2.4 Installing the Audio Device Driver

Your notebook computer uses AD1886 AC97 Codec 2.1 Audio controller.

### Installing Audio Driver for Windows 98

1. Boot Windows 98 from your hard disk and insert the disc containing the Audio driver for Windows 98.
2. Click **Start**, **Settings**, and **Control Panel** Double click **System** and click **Device Manager** tab. Under **Other Devices**, you'll see **PCI Multimedia Audio Device**.
3. Click **Refresh** button. The **Add New Hardware Wizard** will detect **PCI Multimedia Audio Device**.
4. Click **Next** to search for the driver. Click **Next** to continue.
5. Tick **Specify a location** and click **Browse** button. Then, navigate to "**Drivers\Win98\Audio**" and click **Next**.
6. Click **Next** to accept the updated driver for **SoundMAX Integrated Digital Audio** driver.
7. Click **Finish** to complete installation. Restart Computer to finish setting up Audio.

### Installing Audio Driver for Windows Me

1. Boot Windows Me from your hard disk and insert the disc containing the Audio driver for Windows Me.
2. Click **Start**, **Settings**, and **Control Panel** Double click **System** and click **Device Manager** tab. Under **Other Devices**, you'll see **PCI Multimedia Audio Device**.
3. Click **Refresh** button. The **Add New Hardware Wizard** will detect **PCI Multimedia Audio Device**. Click **Next** to search for the driver.
4. Select "**Specify the location of the driver**" and click **Next** to continue.
5. Tick on "**Specify a location box**", then click **Next** and **Browse** buttons and navigate to the Audio driver location as "**Drivers\WinMe\Audio**".
6. Click **OK** and **Next** to begin searching the driver. The **Update Device Driver Wizard** will found **SoundMAX Integrated Digital Audio**. Click **Next** to continue installing the driver.
7. Click **Finish** button to finish installing Audio driver and **Yes** to restart the computer.

### Installing Audio Driver for Windows 2000

1. Click the **Start** button, then point to **Settings**, and click **Control Panel**.
2. Double-click on the **System** icon, **Hardware** and then click on the **Device Manager** folder tab.
3. Under the **Other Devices** line, you will find the **Multimedia Audio Controller**, and then **Scan for hardware changes** buttons to appear the **New Hardware Found** Message Box.
4. In the Found New Hardware Wizard message box which shows searching **Multimedia Audio Controller** driver. Click **Next** to proceed to the next step.
5. Select "**Search for a suitable driver for my device**", and click **Next**.
6. Tick on "**Specify a location box**", then click **Next** and **Browse** buttons, and navigate to the Audio driver location as "**Drivers\Win2K\Audio**".
7. Click **OK** and **Next** to begin searching the driver. The Add New Hardware will found **SoundMAX Integrated Digital Audio**.
8. Click **Yes** to continue installing the driver.
9. Click **Finish** button to finish installing Audio driver.

# Installation and Upgrade

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## 2.2.5 Installing Touch Pad Driver

Following is the procedure for installing Synaptics touch pad driver.

### Installing Touch Pad Driver for Windows 98 / Me / 2000

1. Boot Windows from your hard disk and insert the diskette containing touch pad driver.
2. Click the **Start** button, then click **Run**. In the Run dialog box, click **Browse** button and navigate to the directory as "**Driver\Win98\Touch Pad\setup.exe**", "**WinMe**", or "**Win2K**" path according to your Operating System and run "**Setup.exe**".
3. Execute the setup program and then select the language for this installation. After that, a **Welcome** dialog box appears.
4. Click **Next** continuously three times when the screen appears the **Next** button.
5. Click **OK** to restart your system.

## 2.2.6 Installing PCMCIA Driver

Following is the procedure for installing O2Micro OZ6933 CardBus driver on Windows 98. Under Windows Me or Windows 2000, you could use the built-in driver for OZ6933 CardBus controller without any upgrade.

### Installing PCMCIA Driver for Windows 98

1. Boot Windows from your hard disk and insert the disc containing the chip driver for Windows.
2. Click the **Start** button and then click **Run**. In the **Run** dialog box, click **Browse** button and navigate to the directory as "**Drivers\Win98\PCMCIA\O2setup.exe**" where the chip driver is located.
3. Execute the setup program and then the dialog box appears. Click **OK** to copy necessary files to the system.
4. Finally click **Yes** to restart the computer to finish the installation.

## 2.2.7 Installing Twister Driver

VIA Video Accelerator 3D Adapter (English version) provides better video performance to your computer. For installing the chip driver, please follow the procedures indicated below:

### Installing Twister Driver for Windows 98 / Me / 2000

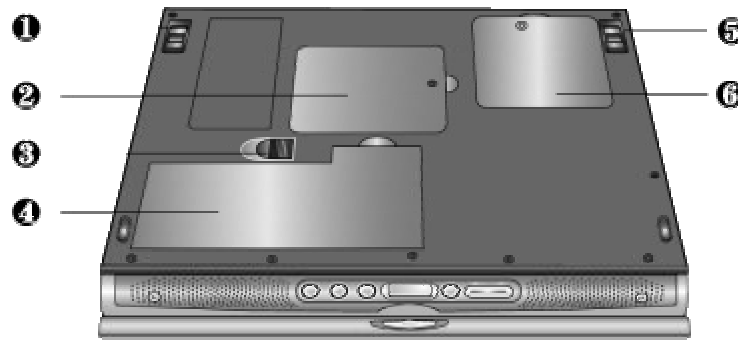
1. Boot Windows from your hard disk and insert the disc containing the chip driver for Windows.
2. Click the **Start** button and then click **Run**. In the **Run** dialog box, click **Browse** button and navigate to the directory as "**Drivers\Twis-chip\setup.exe**" where the chip driver is located.
3. The system may prompt you the message to restart the computer to finish the installation.

# Installation and Upgrade

## 2.2.8 Installing Internal Modem Device Driver

Your notebook computer may come with an optional internal modem. The internal modem is a 56Kps V.90 Askey Data Fax modem.

### Installing Internal Modem for Windows 98 / Me / 2000



1/5	Tilt Foot	2	Memory Compartment
3	Battery Release Latch	4	Battery Bay
6	Mini-PCI Socket Compartment		

Figure 2-1 Mini-PCI Socket Compartment Door

1. Locate the modem module socket. Align the notch with the notch in the socket connector and insert the module as follows:
  - Insert the cable into the modem module.
  - Hold the modem module at an angle and align the modem module connector with the socket in the system. Push the connector into the socket.
  - Press down on the edge of the modem module until the locking tabs on the sides snap into place, securing the module.



Figure 2-2 Mini-PCI Socket Compartment

# Installation and Upgrade

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2. To remove the modem module, press the locking tabs away from the sides of the module until the module pops up. Then, remove the modem module.
3. Reassemble the notebook components as follows:
  - Put the Mini-PCI Socket Compartment door back.
  - Replace the screw.
  - Turn the system over.
4. Boot Windows from your hard disk and insert the disc containing the Modem driver for Windows.
5. Click the **Start** button and then click **Run**. In the Run dialog box, click **Browse** button and navigate to the directory as "\\driver\Win98\MODEM\setup.exe" where the modem driver is located. . Please change "Win98" to other path named as **WinMe**, **Win2K** ..to fit the operating system you are using.
6. Click **OK** to process the installation of modem driver. Follow the instruction to finish the installation.
7. With "Yes, I want to restart my computer now" selected, click **Finish** to complete the modem installation.

## 2.2.9 Installing Internal LAN Device Driver

Your notebook computer may come with an optional internal LAN, which uses the Intel 82559 chip. Please follow the procedures below for installing the LAN driver:

### Installing Internal LAN for Windows 98

1. Boot Windows 98 from your hard disk and insert the disc containing the LAN driver for Windows 98.
2. Click the **Start** button, then click **Settings**, and **Control Panel**. Double click **System** and click **Device Manager** tab. Under **Other Devices**, you'll see **PCI Ethernet Controller**.
3. Click **Refresh** button. The **Add New Hardware Wizard** will detect PCI Ethernet Controller. Click **Next** to search for the driver.
4. Click **Next** to continue.
5. Tick **Specify a location** and click **Browse** button. Then, navigate to "\\Drivers\Win98\LAN" and click **Next**.
6. Click **Next** to accept the updated driver for Intel 82559 Fast Ethernet LAN driver.
7. Click **Next** to continue with LAN driver installation.
8. Insert the disk labeled "**Windows 98 Second Edition CD-ROM**", and then click **OK**.
9. Type "\\Win98", then click "**OK**".
10. Click **Finish** to complete installation.
11. Restart Computer to finish setting up LAN.

### Installing Internal LAN for Windows Me

1. Boot WinMe from your hard disk and insert the disc containing the LAN driver for WinMe. The **New Hardware Found** Message box appears.
2. You will find the message stated **searching PCI Ethernet Controller Device driver** showed in the **Add New Hardware Wizard** message box.
3. Select "**Specify the location of the driver**", and click **Next**.
4. Tick on "**Specify a location box**". Then, click **Browse** button and navigate to the LAN

# Installation and Upgrade

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driver location as "\\Drivers \\WinMe\\LAN". Click **Next** to begin searching the driver.

5. The Add New Hardware will found **Intel PRO PCI Adapter...** Click **Next** to continue the driver installation.
6. Click **Finish** button to finish installing LAN driver.
7. Click **Yes** to restart the computer

## Installing Internal LAN for Windows 2000

1. Click the **Start** button, then point to **Settings**, and click **Control Panel**.
2. Double-click on the **System** icon, **Hardware** and then click on the **Device Manager** folder tab.
3. Under the **Other Devices** line, you will find the **Ethernet Controller**, then **Scan for hardware changes** buttons to appear the **New Hardware Found** Message Box.
4. In the Found New Hardware Wizard message box which shows searching **Ethernet Controller** driver. Click **Next** to proceed to the next step.
5. Select "**Search for a suitable driver for my device**", and click **Next**.
6. Tick on "**Specify a location box**". Then, click **Next** and **Browse** buttons and navigate to the LAN driver location as "\\Drivers \\Win2K\\LAN". Click **OK** and **Next** to begin searching the driver.
7. The Add New Hardware will found **Intel (R) PRO 100B PCI Adapter**. Click **Yes** to continue installing the driver.
8. Click **Finish** button to finish installing LAN driver.

## 2.2.10 Installing Internal Modem and LAN Combo Device Driver

If your notebook has installed two-in-one combo card for enabling both Modem and LAN function, please install Modem and LAN drivers, respectively.

For Modem driver, please follow the procedures below for installing the Lucent Data Fax Modem driver:

### Installing Modem Driver of Combo Device for Windows 98 / Me / 2000

1. Boot Windows from your hard disk and insert the disc containing the Modem driver for Windows.
2. Click the **Start** button and then click **Run**. In the Run dialog box, click **Browse** button and navigate to the directory as "\\driver\\Win98\\MODEM\\setup.exe" where the modem driver is located. . Please change "**Win98**" to other path named as **WinMe**, **Win2K** ..to fit the operating system you are using.
3. Click **OK** to process the installation of modem driver. Follow the instruction to finish the installation.
4. With "**Yes, I want to restart my computer now**" selected, click **Finish** to complete the modem installation.

# Installation and Upgrade

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For LAN, please follow the procedures below for installing the Askey 10/100 Mini PCI Ethernet LAN of Combo card:

## Installing LAN Driver of Combo Device for Windows 98

1. Boot Windows 98 from your hard disk and insert the disc containing the LAN driver for Windows 98.
2. Click the **Start** button, then click **Settings**, and **Control Panel**. Double click **System** and click **Device Manager** tab. Under **Other devices**, you'll see **PCI Ethernet Controller**.
3. Click **Refresh** button. The **Add New Hardware Wizard** will detect PCI Ethernet Controller. Click **Next** to search for the driver.
4. Click **Next** to continue.
5. Tick **Specify a location** and click **Browse** button. Then, navigate to "**Drivers\Win98\Combo\LAN**" and click **Next**.
6. Click **Next** to accept the updated driver for **Accton EN2242 Series Mini PCI Fast Ethernet Adapter**. Ethernet LAN driver.
7. Click **Next** to continue with LAN driver installation.
8. Insert the disk labeled "**Accton EN2242 Series Mini PCI Fast Ethernet Adapter**", and then click **OK**.
9. Type "**\Win98**", then click "**OK**".
10. Click **Finish** to complete installation and restart Computer to finish setting up LAN.

## Installing LAN Driver of Combo Device for Windows Me

1. Boot WinMe from your hard disk and insert the disc containing the LAN driver for WinMe. The **New Hardware Found** Message box appears.
2. You will find the message stated **searching PCI Ethernet Controller Device driver** showed in the **Add New Hardware Wizard** message box.
3. Select "**Specify the location of the driver**", and click **Next**.
4. Tick on "**Specify a location box**". Then, click **Browse** button and navigate to the LAN driver location as "**Drivers\WinMe\Combo\LAN**". Click **Next** to begin searching the driver.
5. The Add New Hardware will found **Accton EN2242 Series Mini PCI Fast Ethernet Adapter**. Click **Next** to continue the driver installation.
6. Click **Finish** button to finish installing LAN driver and click **Yes** to restart the computer.

## Installing LAN Driver of Combo Device for Windows 2000

1. Click the **Start** button, then point to **Settings**, and click **Control Panel**.
2. Double-click on the **System** icon, **Hardware** and then click on the **Device Manager** folder tab.
3. Under the **Other Devices** line, you will find **Ethernet Controller**. Click **Scan for hardware changes** buttons to appear **New Hardware Found** Message Box.
4. In the Found New Hardware Wizard message box which shows searching **Ethernet Controller** driver. Click **Next** to proceed to the next step.
5. Select "**Search for a suitable driver for my device**", and click **Next**.
6. Tick on "**Specify a location box**". Then, click **Next** and **Browse** buttons and navigate to the LAN driver location as "**Drivers\Win2K\Combo\LAN**". Click **OK** and **Next** to begin searching the driver.
7. The Add New Hardware will found **Accton EN2242 Series Mini PCI Fast Ethernet Adapter**. Click **Yes** to continue installing the driver.
8. Click **Finish** button to finish installing LAN driver.

# Installation and Upgrade

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## 2.2.11 Installing Easy Button Driver

Following is the procedure for installing Easy Button driver.

### Installing Easy Button driver for Windows 98 / Me / 2000

1. Boot Windows from your hard disk and insert the disc containing the Easy Button driver.
2. Click the **Start** button, then click **Run**. In the Run dialog box, click **Browse** button and navigate to the directory as "`\Drivers\Win98\Easy Button\Ez Button V1.01.exe`", "`\Drivers\WinMe\Easy Button\Ez Button V1.01.exe`", or "`\Drivers\Win2K\Easy Button\Ez Button V1.01.exe`".
3. Run the execution file for installing the Easy Button driver, and then click **Finish** after complete the installing procedure.

## 2.2.12 Installing EzMail Driver

Following is the procedure for installing EzMail driver.

### Installing EzMail driver for Windows 98 / Me / 2000

1. Boot Windows from your hard disk and insert the disc containing the Easy Button driver.
2. Click the **Start** button, then click **Run**. In the Run dialog box, click **Browse** button and navigate to the directory as "`\Drivers\Win98\EzMail\Ez Mail V1.01.exe`", "`\Drivers\WinMe\EzMail\Ez Mail V1.01.exe`", or "`\Drivers\Win2K\EzMail\Ez Mail V1.01.exe`".
3. Run the execution file for installing the Easy Button driver, and then click **Finish** after complete the installing procedure.

## 2.2.13 Enabling DMA Channel for Best Performance

This Notebook supports DMA function for fastest data bus transmission. The Windows system does not enable this function after you had installed the Windows system. You must enable this function manually to make this notebook running smoothly, especially in music listening and DVD, VCD playback.

### Enabling DMA channel for Windows 98 / Me

1. Please click the following buttons with the procedure **Start** → **Setting** → **Control Panel** → **System** → **Device Manager**.
2. Select and click **CD-ROM**, then point to the **name of CD-ROM/DVD-ROM/CD-RW**.
3. Click **Setting** tab and tick the **DMA** function
4. Return to previous level (**Device Manager**), select and click **Disk Drives**, under the **Disk Drives** level, click the name of Hard Disk (For example "**Generic IED Disk Tupe 01**").
5. Please change the setting of **Disk Drives** as above.
6. Restart your notebook to let the setting take effect.

# Installation and Upgrade

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## **Enabling DMA channel for Windows 2000**

1. Please click the following buttons with the procedure **Start → Setting→ Control Panel → System → Hardware → Device Manager.**
2. Select and click **IDE ATA/ATAPI Controller**, you will find **Primary IDE Channel** and **Secondary IDE channel** Please click **Primary IDE Channel** first.
3. Click **Advanced setting** Tab. Please change the selection of **Transfer Mode** to **DMA if available** on both **Device 0** and **Device 1**.
4. Return to previous level, please change the setting of **Secondary IDE Channel** as above.
5. Restart your notebook to let the setting take effect.

# Installation and Upgrade

## 2.3 System Upgrades

This section provides an easy step in doing system upgrades for your notebook computer.

### 2.3.1 Jumper Settings

This section provides a jumper setting lists of configuring the notebook.

#### Keyboard Type Select

K/B Type	Pos #1	POS #2
US KEYBOARD	OFF	OFF
RESERVE	OFF	ON
JP KEYBOARD	ON	OFF
UK KEYBOARD	ON	ON

#### Logo Select

Logo	Pos #3
RESERVE	OFF
RESERVE	ON

#### Password Override ( CMOS / RTC Data ) Jumper Setting

Password Override	Pos#4
RTC Battery Normal	OFF
Clear (RTC) DATA	ON



Before doing password override, take off AC adapter and battery first.

#### Main Board ID Select

Main Board ID	Pos #5	POS #6
RESERVE	OFF	OFF
RESERVE	OFF	ON
RESERVE	ON	OFF
RESERVE	ON	ON

#### CD-ROM Master / Slave Select

CD-ROM	Pos #7
Master	ON
Slave	OFF



Pos # 8 is N/A Pin for reserve

# Installation and Upgrade

## 2.3.2 CPU Upgrade Procedure

The A360 features Intel Pentium III and Celeron FC-PGA Processors. It is located on the upper-left side of the system motherboard.

### How to Access the CPU Socket

To install or replace the CPU, follow the steps below:

1. Turn off the system and remove both AC adapter and the battery pack from the notebook unit.
2. Remove keyboard cover by gently bending it and sliding it towards in front of you.



Figure 2-3 Remove keyboard cover

3. Lift the keyboard and tilt it towards the LCD panel.
4. Release keyboard cable by sliding the ZIF connector towards up direction.

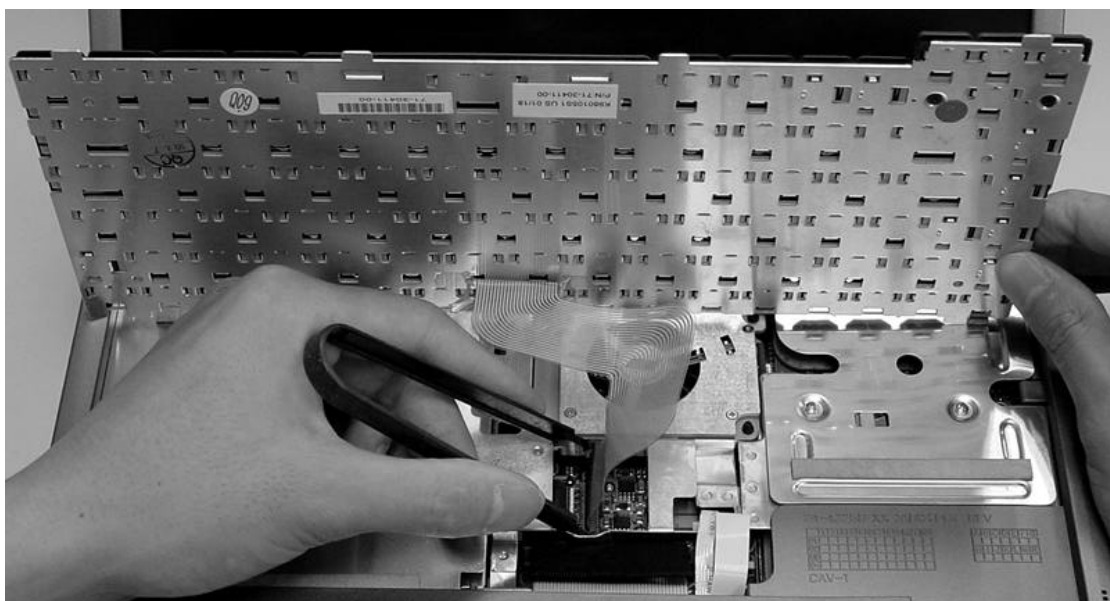
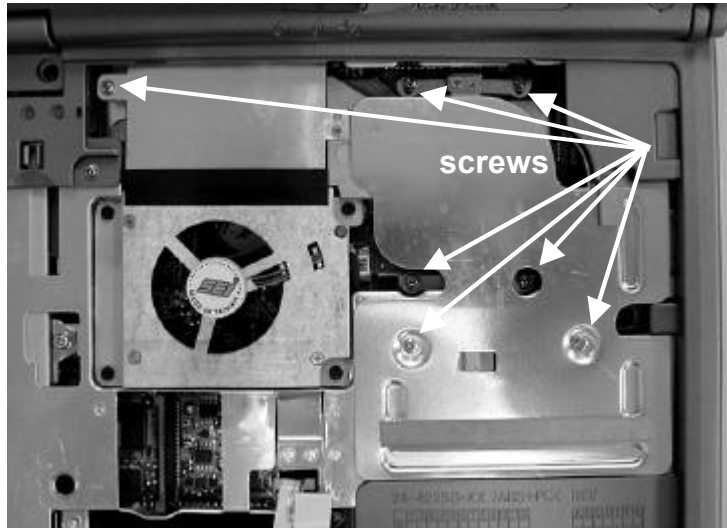


Figure 2-4 Remove keyboard

## Installation and Upgrade

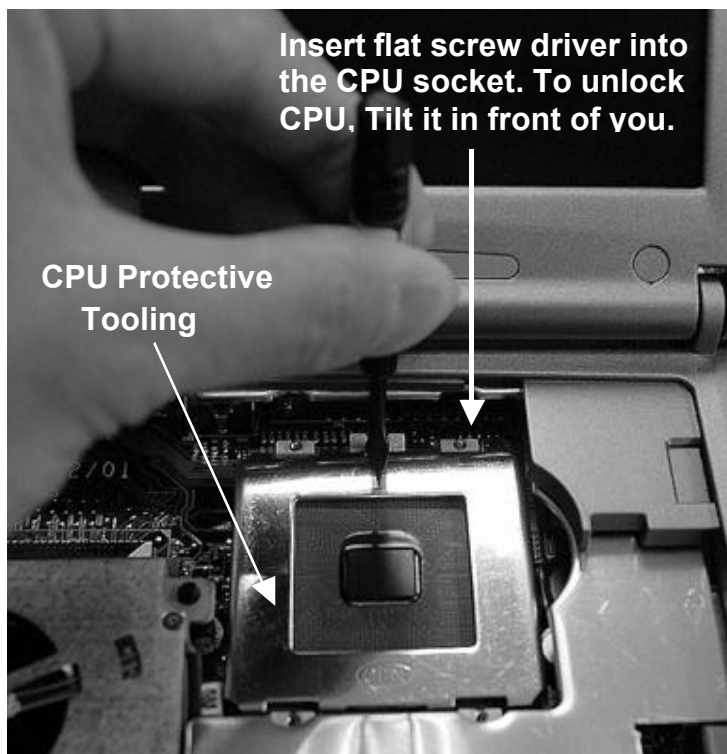
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5. Release seven screws as shown in the picture below, and then remove heat sink plate by slightly lifting it up.



**Figure 2-5 Remove heat sink plate**

6. Use a flat screw driver and insert it into the CPU socket and tilt it towards in front of you to unlock CPU from the socket. It's recommended to use the protective tooling securing CPU against damage.



**Figure 2-6 Remove CPU**

# Installation and Upgrade

7. Remove CPU and insert the preferred CPU.
8. Use a flat screw driver and insert it into the other side of CPU socket and tilt it towards LCD panel to unlock CPU from the socket. It's recommended to use the protective tooling securing CPU against damage.
9. Place back the heat plate and keyboard cover. Boot on the computer, and then BIOS will automatically detect the type of the CPU which just be installed.

## 2.3.3 Memory Upgrade Procedure

The notebook computer offers two 64-bit memory slot using 144-pin SODIMM (Small Outline Dual Inline Memory Module) at 64MB, 128MB, and 256MB SDRAM. Two memory slots are found inside the memory compartment. The memory compartment is located on the underside of your computer inside the memory compartment. The notebook has no memory on-board so you should have at least one SODIMM module inserted. With two memory slots, you can have several combinations up to 512MB.

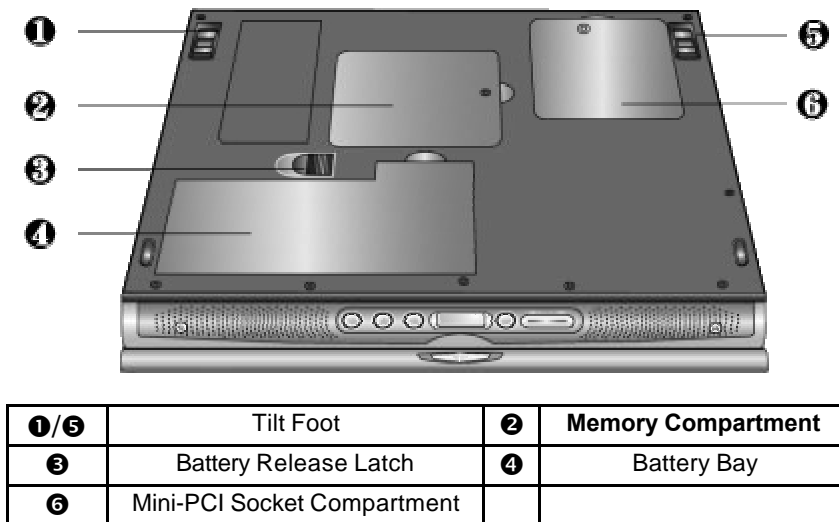


Figure 2-7 Memory Compartment Door

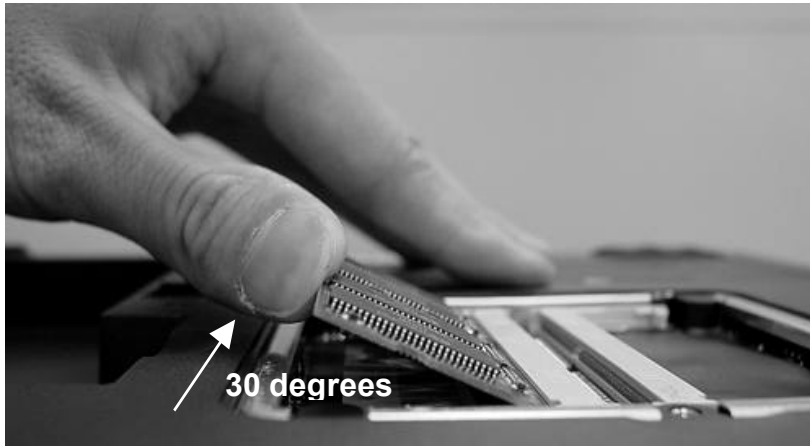
### Using the Memory Slot inside the Memory Compartment

Follow the steps below on how to upgrade the memory modules:

1. Make sure the system is powered off and that no peripheral devices are attached.
2. Turn the system over and locate the screw on the memory compartment.
3. Remove the screw and open the memory compartment. Locate the alignment notch on the module.
4. Locate the memory module socket. Align the notch with the notch in the socket connector and insert the module as follows:
  - Hold the SODIMM at a 60-degree angle and align the SODIMM connector with the socket in the system. Push the connector into the socket.
  - Press down on the edge of the SODIMM until the locking tabs on the sides snap into place, securing the module.

# Installation and Upgrade

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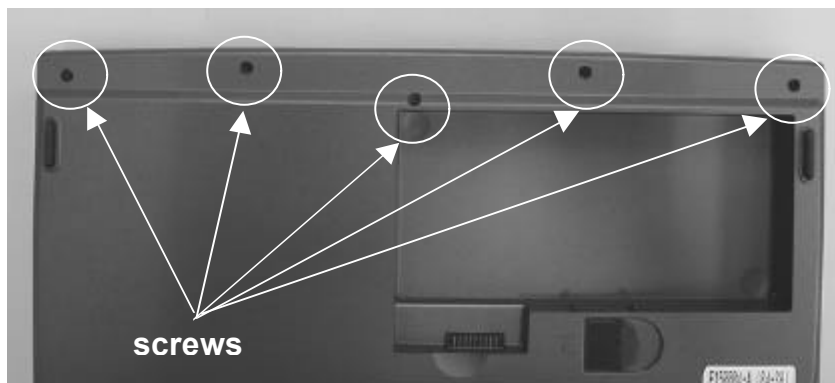
**Figure 2-8**     **Insert Memory Module**

5. To remove a SODIMM, press the locking tabs away from the sides of the module until the module pops up. Then, remove the SODIMM.
6. Reassemble the notebook components as follows.
  - Put the DIMM door back.
  - Replace the screw and turn the system over.

## **2.3.4 Hard Disk Upgrade Procedure**

The notebook provides a built-in hard disk for the primary IDE controller. The HDD is an industry standard 2.5" IDE disk drive and can be upgraded with another standard 2.5" HDD.

1. Make sure the system is powered off and that no peripheral devices are attached.
2. Remove the five screws securing the palm-rest cover underneath the system base unit.



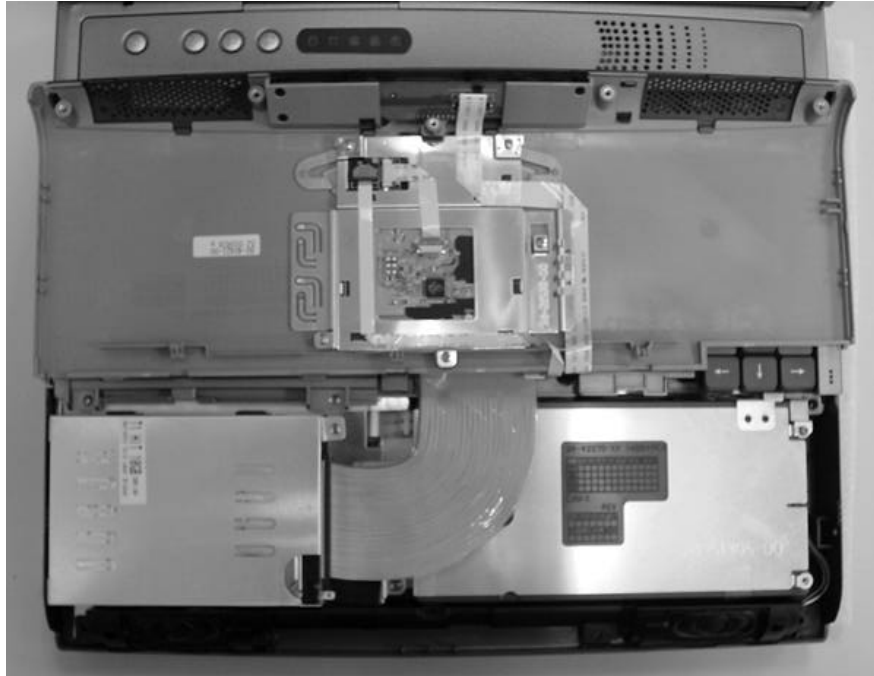
**Figure 2-9**     **Remove Palm Reset**

3. Remove the palm-rest cover by slowly unsnapping each section of the palm-rest cover from the base unit.
4. When you have removed the entire palm-rest cover, simply flip over the touchpad panel to the keyboard. You will find the built-in hard disk secured with one screw at the upper

# Installation and Upgrade

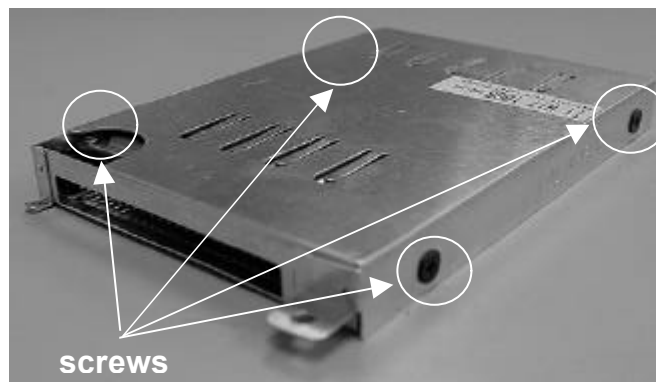
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right corner of the hard disk. Remove this screw and carefully pull the hard disk module from the connector.



**Figure 2-10** The disassembly of Hard Disk Drive

5. Remove four screws of frame HDD bracket plate. Two ones of them are at the same side, and others are at the other sides.



**Figure 2-11** Screws Locations of the frame HDD bracket plate

6. Plug in the hard disk module to the connector and secure the screw on the upper right corner of the hard disk.
7. Place back the palm rest and secure those screws

# Installation and Upgrade

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## 2.3.5 System BIOS Upgrade Procedure

The notebook supports EPROM Flash BIOS that allows you to easily update the system BIOS using the Phoenix BIOS Flash utility program called “**PHLASH.COM**”. This program runs under MS-DOS and requires the system not to load high memory like **HIMEM.SYS**. It also needs the “**PLATFORM.BIN**” file in order to activate.

Follow the steps below on how to update the system BIOS:

1. Prepare a clean bootable diskette without loading the HIMEM.SYS. Copy the files **PHLASH.COM** and **PLATFORM.BIN** into the diskette along with the BIOS ROM file.
2. Restart the computer and boot from the diskette. At the DOS prompt, type the command “**PHLASH <BIOSfile.ROM>**” to activate Flash BIOS programming utility. The computer will then start to update the system BIOS inside the notebook.
3. After programming is complete, the system will prompt you to press any key to shutdown the computer. The BIOS version is displayed inside the BIOS Setup Main menu. Press <F2> after power on to run CMOS Setup program.

**BIOS Version : 1.0A-0004-3430**



It is very important not to power off the system whenever the FLASH BIOS program is running. Otherwise, the system may not be able to power on and you need to replace the BIOS EPROM chip from another working notebook.



Always plug in the AC adapter when updating the BIOS.