

Installation and Upgrade

2.1 Overview

This chapter provides guidelines on installing the device drivers for the built-in features of the MB02. Most of the driver installation procedures mentioned here are only for and Windows XP. 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:

- Intel 855GM VGA Driver – Windows XP
- ALC201A Audio Driver – Windows XP
- Synatics Touch Pad Driver – Windows XP
- Montara-GM Chipset Driver – Windows XP
- Easy Button PRO utility – Windows XP
- Ambit MDC Modem – Windows XP
- Intel 562EZ LAN driver– Windows XP
- Intel Wireless LAN driver – Windows XP
- Audio Volume Status utility
- Intel Wireless LAN utility



Visit FIC Support website <ftp://ftp.pcg.fic.com.tw/NBTECH/MB02> for the latest driver updates.

2.2.1 Installing Windows XP from CD / DVD ROM

This section provides Windows XP installation guide from the CD-ROM or DVD-ROM device.

Installing Windows XP from CD-ROM / DVD-ROM

To install Windows XP directly from your CD-ROM, insert the Windows XP 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**".

2.2.2 Installing the VGA Device Driver

Your notebook computer uses the high-performance Intel 855GM 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 XP :

Installing VGA Driver for Windows XP

1. Click the **Start** button, then point to **Settings**, and click **Control Panel**.

Installation and Upgrade

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)**, click **Uninstall**, **OK**, 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\\ WinXP\\VGA**".
7. Click **OK** and **Next** to begin searching the driver. Click **Next** to continue installing the driver.
1. Click **Finish** button to finish installing VGA driver and Click **Yes** to restart the computer.

2.2.3 Installing the Audio Device Driver

Your notebook computer uses Realtek Audio controller.

Installing Audio Driver for Windows XP

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**, click **Uninstall**, **OK**, 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\\ WinXP\\Audio**".
7. Click **OK** and **Next** to begin searching the driver. The Add New Hardware will found **Intel ALC201A Audio**.
8. Click **Yes** to continue installing the driver. Click **Finish** button to finish installing Audio driver.

2.2.4 Installing Touch Pad Driver

Following is the procedure for installing Synaptics touch pad driver.

Installing Touch Pad Driver for Windows XP

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\\WinXP\\Touch Pad\\setup.exe**", 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.

2.2.5 Installing Internal Modem Device Driver

Your notebook computer may come with an optional internal modem. The internal modem is a 56Kps V.90 Ambit MDC modem.

Installation and Upgrade

Installing Internal Modem for Windows XP

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\\WinXP\\MODEM\\setup.exe" where the modem driver is located.
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.

2.2.6 Installing Internal LAN Device Driver

Your notebook computer may come with an optional internal LAN, which uses the Intel 562EZ chip. Please follow the procedures below for installing the LAN driver:

Installing Internal LAN for Windows XP

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**, click **Uninstall**, **OK**, 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\\WinXP\\LAN". Click **OK** and **Next** to begin searching the driver.
7. The Add New Hardware will found **Intel Fast Ethernet**. Click **Yes** to continue installing the driver.

Click **Finish** button to finish installing LAN driver.

2.2.7 Installing EzButton Driver

Following is the procedure for installing Easy Button driver.

Installing Easy Button driver for Windows XP

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\\WinXP\\Easy Button\\Ez Button.exe".
3. Run the execution file for installing the Easy Button driver, and then click **Finish** after complete the installing procedure.

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.

DSW1

Keyboard Type Select

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

DVDSEL

ODD select	Pos #5
KME UJDA745 DVD/CD-RW Combo	ON

BIOS Crisis

BIOS Crisis	Pos#4
Default	OFF
BIOS Crisis	ON

Password Override (CMOS / RTC Data) Jumper Setting

CMOS clear select	Pos#6
RTC Battery Normal	OFF
Clear (RTC) DATA	ON

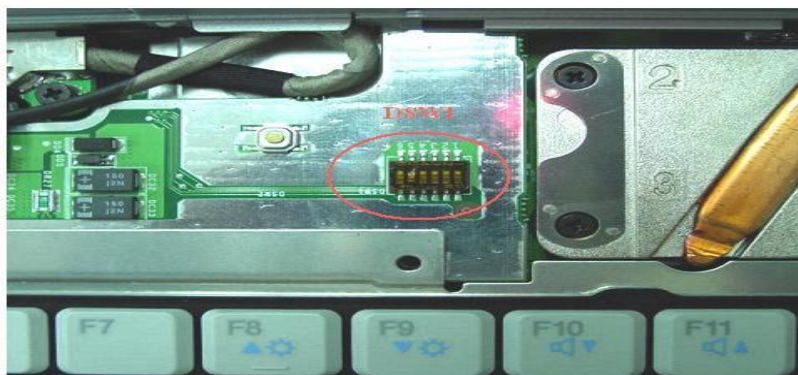


Figure 2-1 Location of DSW1

Installation and Upgrade

2.3.2 CPU Upgrade Procedure

The MB02 features Mobile Intel Pentium-M FCPGA Processors. It is located on the upper right 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. There are four screws on the bottom case and that should be removing as the picture indicated.

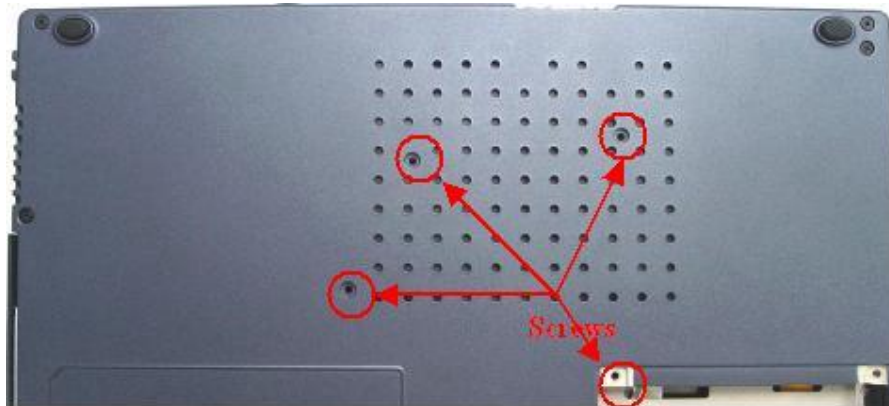


Figure 2-2 **Location of screws**

3. Remove keyboard cover by gently bending it and sliding it towards in front of you.



Figure 2-3 **Remove keyboard Cover**

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

Installation and Upgrade



Figure 2-4 Remove keyboard

6. Release two screws as shown in the picture below, and then remove Middle plate.

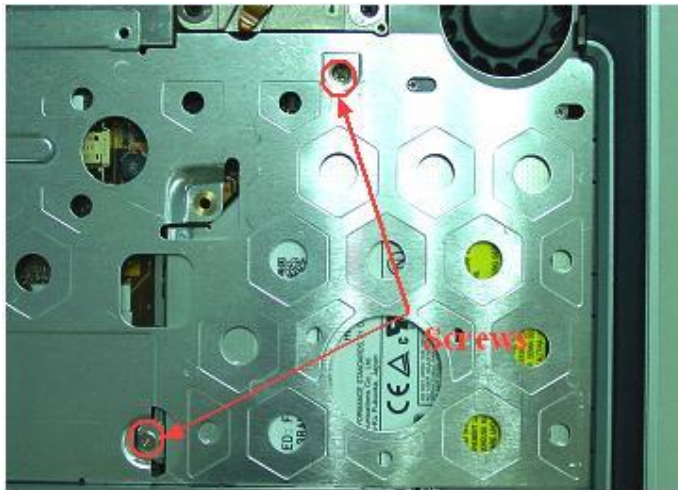


Figure 2-5 Remove Middle plate

7. Release four screws and one cable as shown in the picture below, and then remove heat sink plate and Fan.

Installation and Upgrade



Figure 2-6 Remove heat sink plate and Fan

8. Use a flat screwdriver to unlock CPU.



Figure 2-7 Remove CPU

9. Remove CPU and insert the preferred CPU.
10. Use a flat screwdriver to lock CPU.
11. 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 memory slot using DDR DIMM at 128MB, 256MB, 512MB and 1024MB DDR-RAM. Two memory slots are found inside the memory compartment. The memory compartment is located on the underside of your computer inside the memory compartment. With two memory slots, you can have several combinations up to 2048MB.

Installation and Upgrade

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 K/B cover, K/B and Middle plate.
4. Locate the memory module socket. Align the notch with the notch in the socket connector and insert the module as follows:
 - Hold the DIMM at a 60-degree angle and align the DIMM connector with the socket in the system. Push the connector into the socket.
 - Press down on the edge of the DIMM until the locking tabs on the sides snap into place, securing the module.
5. To remove a DIMM, press the locking tabs away from the sides of the module until the module pops up. Then, remove the DIMM.
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 four screws.

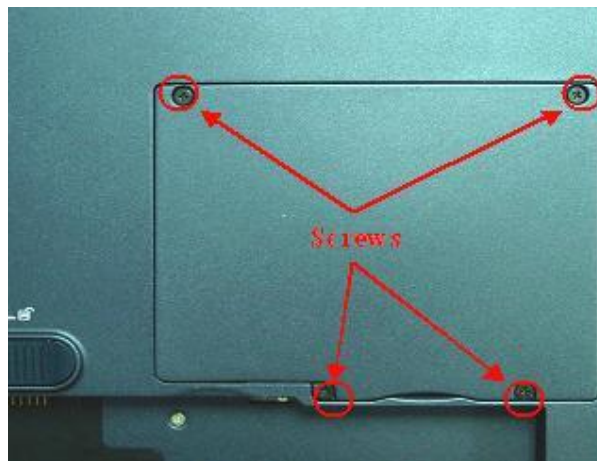


Figure 2-8 Remove HDD module

Installation and Upgrade

3. Remove the HDD module from the base unit.
4. Remove four screws of frame HDD bracket plate.

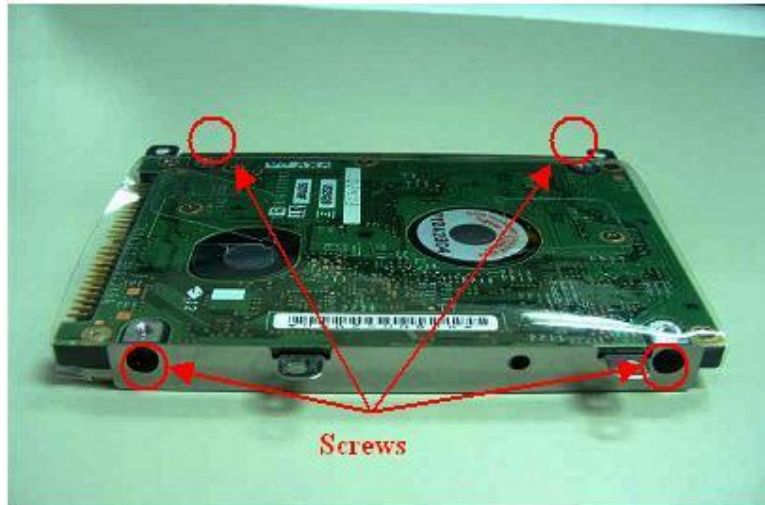


Figure 2-9 Screws Locations of the frame HDD bracket plate

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-0716-0724

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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.

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Always plug in the AC adapter when updating the BIOS.