

AW-BS 710

SOM-ETX

Model Number AW-BS710

Intel® Pentium® M / ULV Celeron M Processor with CRT/LVDS, LAN & Audio

User's Manual

Version 1.0

User's Manual

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Chapter 1. General Information

1.1 Introduction

The AW-BS710 is a system-on-module based on ETX form factor. It can support Pentium® M / ULV Celeron M processor. The chipsets equipped with AW-BS710 is Intel® architecture of 852GM/855GME+ICH4. It can support DDR SO-DIMM socket up to 1GB. Other features AW-BS710 has including Intel® 82551ER chipset supporting one Ethernet port and CRT, LVDS panel interface, etc.

1.2 Specification

General Functions

CPU	Intel® Pentium® M / ULV Celeron® M processor
BIOS	Award® 512KB Flash BIOS
Cache	512KB L2 cache
Chipset	Intel® 852GM/855GME + ICH4
I/O Chipset	Winbond® 83627HF-AW
Memory	Onboard one DDR SO-DIMM socket can support up to 1GB
Enhanced IDE	Support two IDE devices via Ultra DMA33/66/100 mode
Serial port	Two RS232 (TTL, 16550 compatible) ports
KB/Mouse	Support PS/2 keyboard and mouse
Parallel port	Support bi-directional parallel port via SPP, ECP and EPP mode
USB	Support four USB2.0/1.1 ports
IR interface	Support SIR IrDA 1.0 compliant
Watchdog timer	Can generate a system reset, support software selectable timeout interval
System Monitoring	Built in W83627HF-AW; support temperatures and voltage monitoring
Expansion interface	Support ISA & PCI expansion interface

Flat Panel/CRT Interface

Chipset	Built-in 852GM/855GME chipset
Display type	Support CRT and LVDS panel interface
Display Memory	Up to 32MB of dynamic video memory allocation

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Ethernet Interface

Chipset One Intel 82551ER 100Base-Tx Fast Ethernet controller

Audio Interface

Chipset AC97 CODEC

Mechanical and Environmental

Form Factor ETX

Power supply voltage VCC(4.75V to 5.25V)

Operating temperature 32 to 140 (0 to 60)

Board size 4.5"(L) x 3.7"(W) (114mm x 94mm)

1.3 Package

Please make sure that the following items have been included in the package before installation.

1. AW-BS710 SOM
2. Quick Installation Guide
3. CD-ROM that contains the following folders:
 - (1) Manual
 - (2) System Driver
 - (3) Ethernet Driver
 - (4) Utility Tools

If any item of above is missing or damaged, please contact your dealer or retailer from whom you purchased the AW-BS710. Keep the box and carton when you probably ship or store AW-BS710 in near future. After you unpack the goods, inspect and make sure the packaging is intact. Do not plug the power adapter to the main board of AW-BS710 if you already find it appears damaged.

Note: Keep the AW-BS710 in the original packaging until you start installation.

1.4 Precautions

Please make sure you properly ground yourself before handling the AW-BS710 board or other system components. Electrostatic discharge can be easily damage the AW-BS710 board.

Do not remove the anti-static packing until you are ready to install the AW-BS710

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board.

Ground yourself before removing any system component from its protective anti-static packaging. To ground yourself, grasp the expansion slot covers or other unpainted parts of the computer chassis.

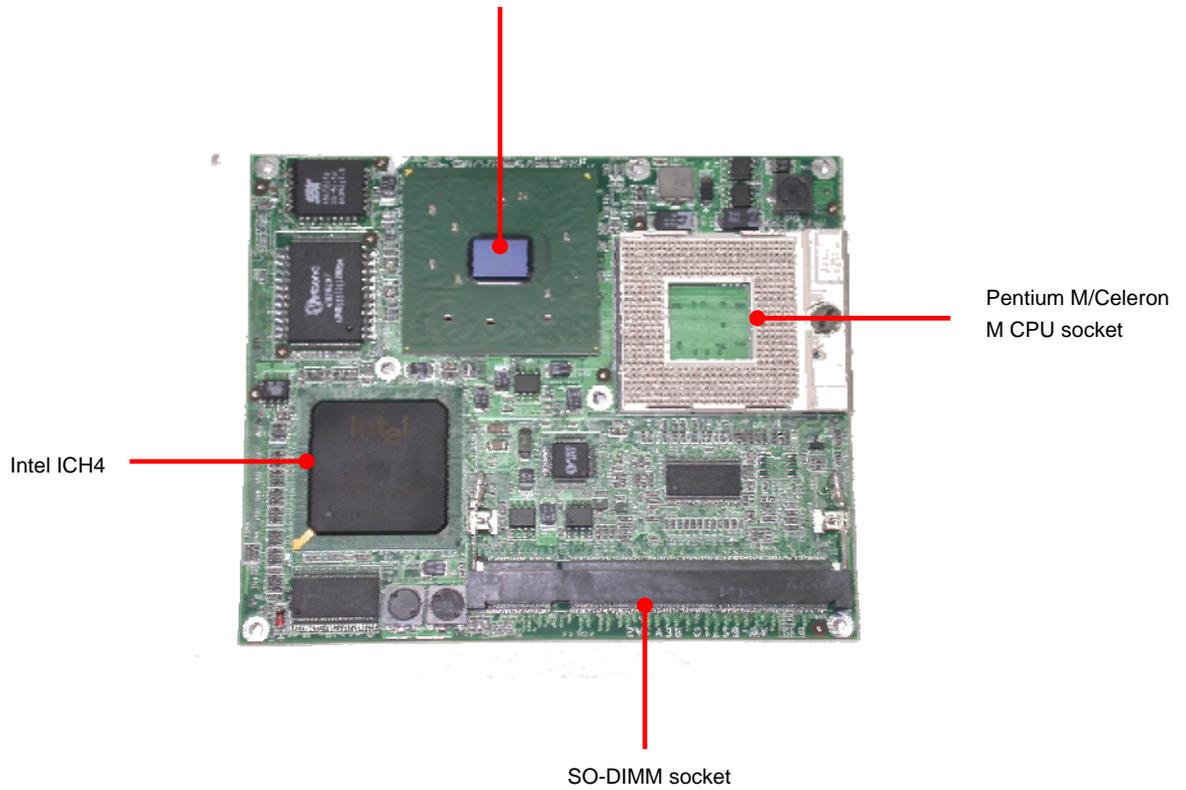
Handle the AW-BS710 board by its edges and avoid touching the components on it.

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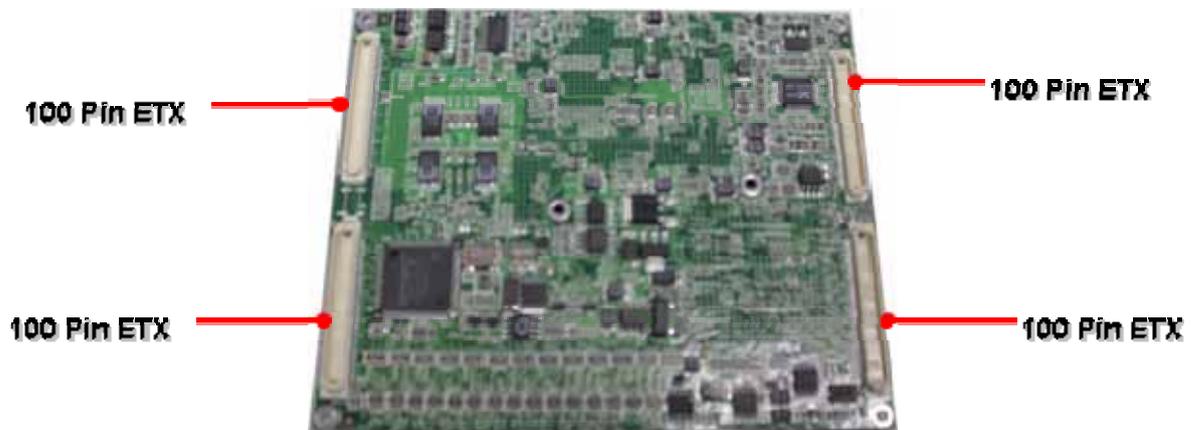
1.5 Board Layout

(Front View)

Intel 852GM/855GME



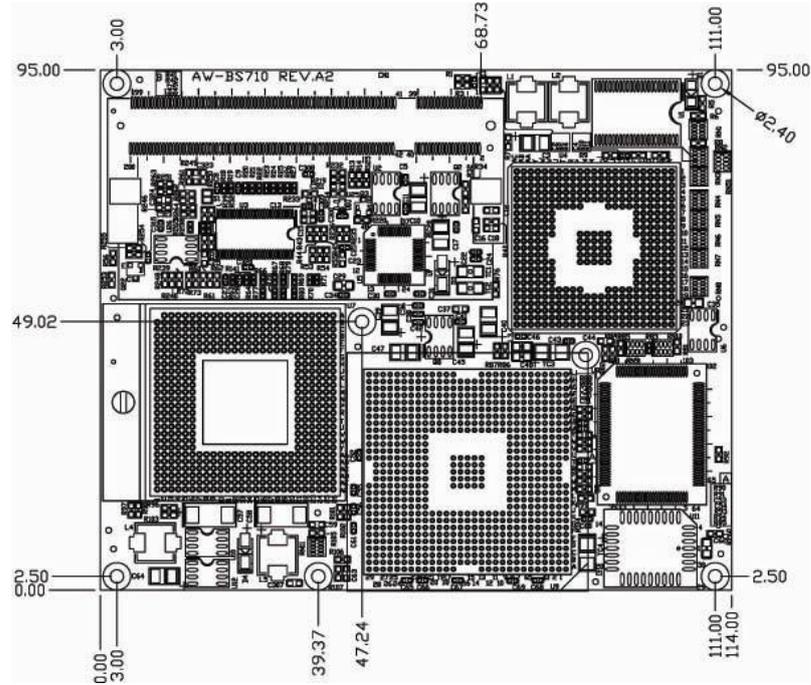
(Rear View)



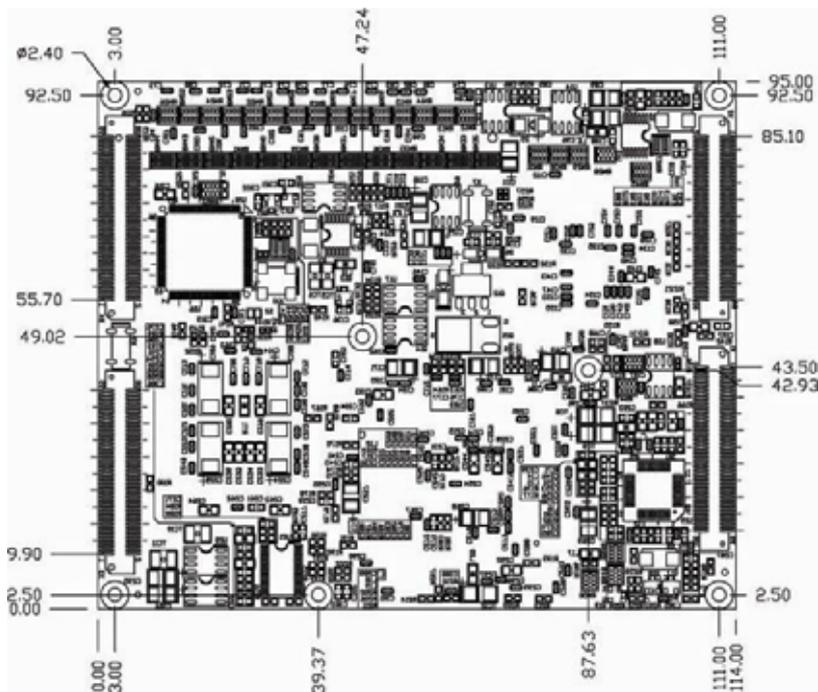
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1.6 Board Dimension

(Front View)



(Rear View)



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Chapter 2. Memory Installation

2.1 Install memory

The AW-BS710 supports one SO-DIMM DDR socket, memory up to 1GB. Please make sure to insert DDR with registered.



To Insert a DIMM Memory: Please align the module with the socket key and press down until the levers at each end of the socket snap close up.

There is only one direction for installing a module in the socket. Do not attempt to force the module into the socket incorrectly.



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2.2 Remove Memory

To Remove a DIMM Memory: To remove a DIMM, press down on the levers at both end of the module until the module pops out

Chapter 3. BIOS Setup

The ROM chip of your AW-BS710 board is configured with a customized Basic Input/Output System (BIOS) from Phoenix-Award BIOS. The BIOS is a set of permanently recorded program routines that give the system its fundamental operational characteristics. It also tests the computer and determines how the computer reacts to instructions that are part of programs.

The BIOS is made up of code and programs that provide the device-level control for the major I/O devices in the system. It contains a set of routines (called POST, for Power-On Self Test) that check out the system when you turn it on. The BIOS also includes CMOS Setup program, so no disk-based setup program is required. CMOS RAM stores information for:

- Date and time
- Memory capacity of the main board
- Type of display adapter installed
- Number and type of disk drives

The CMOS memory is maintained by battery installed on the AW-BS710 board. By using the battery, all memory in CMOS can be retained when the system power switch is turned off. The system BIOS also supports easy way to reload the CMOS data when you replace the battery of the battery power lose.

3.1 Quick Setup

In most cases, you can quickly configure the system by choosing the following main menu options:

1. Choose "Load Optimized Defaults" from the main menu. This loads the setup default values from the BIOS Features Setup and Chipset Features Setup screens.
2. Choose "Standard COS Features" from the main menu. This option lets you configure the date and time, hard disk type, floppy disk drive type, primary display and more.
3. In the main menu, press F10 ("Save & Exit Setup") to save your changes and reboot the system.

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3.2 Entering the CMOS Setup Program

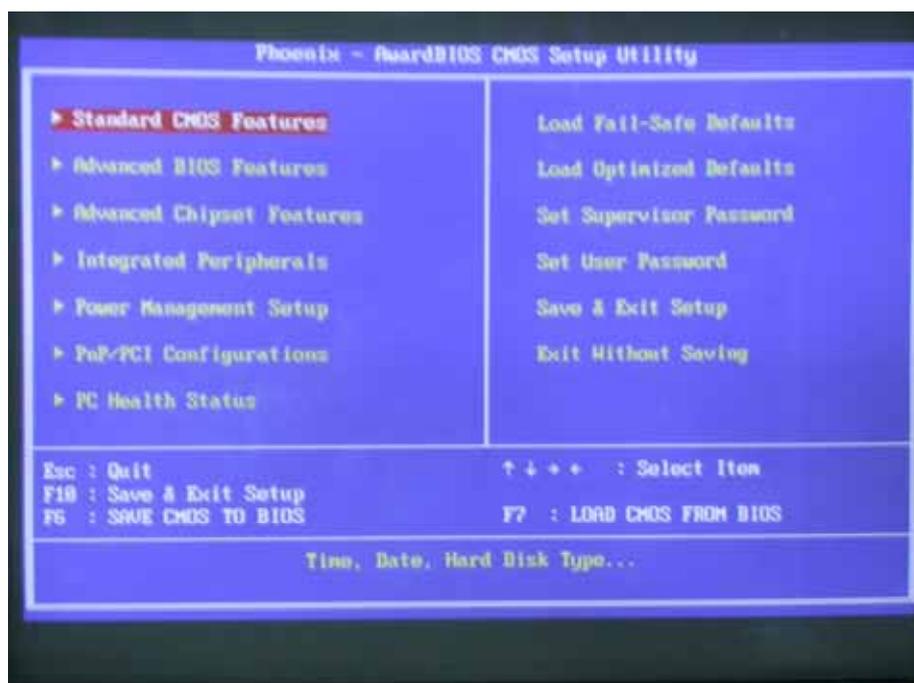
Use the CMOS Setup program to modify the system parameters to reflect the options installed in your system and to customize your system. For example, you should run the Setup program after you:

- Received an error code at startup
- Install another disk drive
- Use your system after not having used it for a long time
- Find the original setup missing
- Replace the battery
- Change to a different type of CPU
- Run the Phoenix-Award Flash program to update the system BIOS

Run the CMOS Setup program after you turn on the system. On-screen instructions explain how to use the program.

↓ Enter the CMOS Setup program's main menu as follows:

1. Turn on or reboot the system. After the BIOS performs a series of diagnostic checks, the following message appears:
"Press DEL to enter SETUP"
2. Press the key to enter CMOS Setup program. The main menu appears:



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3. Choose a setup option with the arrow keys and press <Enter>. See the following sections for a brief description of each setup option.

In the main menu, press F10 ("Save & Exit Setup) to save your changes and reboot the system. Choosing "EXIT WITHOUT SAVING" ignores your changes and exits the program. Pressing <ESC> anywhere in the program returns you to the main menu.

3.3 Menu Options

The main menu options of the CMOS Setup program are described in the following and the following sections of this chapter.

STANDARD CMOS FEATURES:

Configure the date & time, hard disk drive type, floppy disk drive type, primary display type and more

ADVANCED BIOS FEATURES:

Configure advanced system options such as enabling/disabling cache memory and shadow RAM

ADVANCED CHIPSET FEATURES:

Configure advanced chipset register options such DRAM timing

INTEGRATED PERIPHERALS:

Configure onboard I/O functions

POWER MANAGEMENT SETUP:

Configure power management features such as timer selects

PNP/PCI CONFIGURATION:

Configure Plug & Play IRQ assignments and PCI slots

PC HEALTH STATUS:

Configure the CPU speed and, if the optional Winbond W83627HF system monitor IC is installed, view system information

LOAD FAIL-SAFE DEFAULT:

Loads BIOS default values. Use this option as diagnostic aid if your system behaves erratically

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LOAD OPTIMIZED DEFAULTS:

Loads optimized BIOS settings

SET SUPERVISORS & USER PASSWORD:

Configure the system so that a password is required when the system boots or you attempt to enter the CMOS setup program. When you log in with this password, you will be able to enter the COS Setup main menu, but you can not enter other menus in the CMOS Setup program.

SAVE & EXIT SETUP:

Save changes of values to CMOS and exit the CMOS setup program

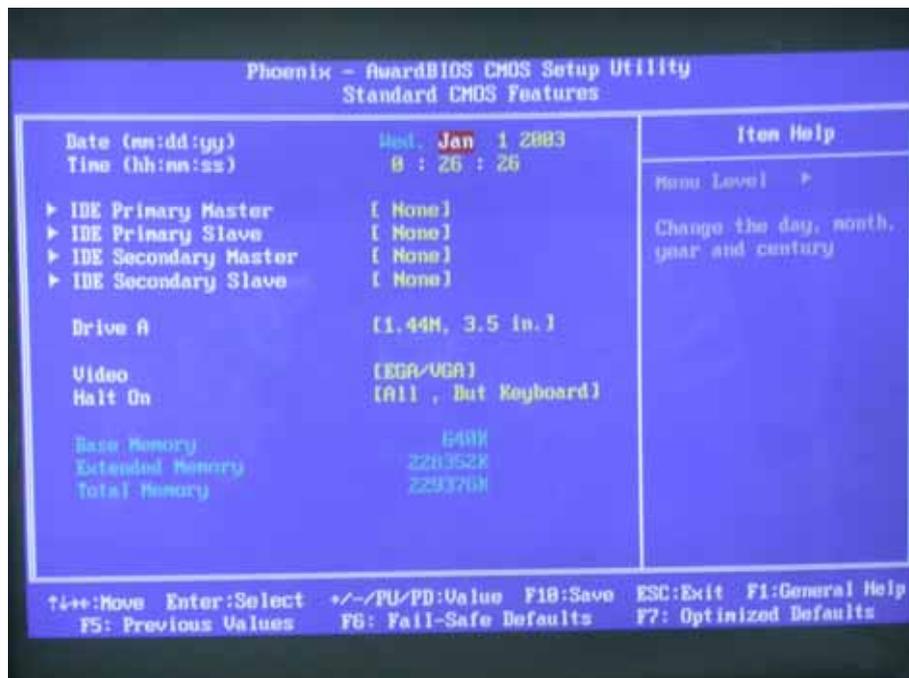
EXIT WITHOUT SAVING:

Abandon all CMOS changes and exit the CMOS setup program

3.4 Standard CMOS Features Setup

↓ Use the Standard CMOS Setup option as follows:

1. Choose "Standard CMOS Features" from the main menu. The following screen appears:



2. Use the arrow keys to move between fields. Modify the selected field using the PgUP/PgDN/+/- keys. Some fields let you enter numeric values directly.

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Option	Description
Date (mm:dd:yy)	Type the current date
Time (hour:min:sec)	Type the current time (24-hour clock)
Hard Disks	Choose from "Auto", "User", or "None" If your drive is not one of the predefined types, choose "User" and enter the following drive specifications: Cylinders, heads, Wpcom, L-Zone, sectors, and mode Consult the documentation received with the drive for the values that will give you optimum performance.
Video	Choose: EGA/VGA CGA 40 CGA 80 Mono
Halt On	Controls whether the system stops in case of an error detected during power up. Choose: All Errors No Errors All, But Keyboard (Default) All, But Diskette All, But Disk/Key

3. After you have finished with the Standard CMOS Features program, press the <ESC> key to return to the main menu.

3.5 Advanced BIOS Features Setup

↓ Use the Advanced BIOS Features Setup option as follows:

1. Choose "Advanced BIOS Features Setup" from the main menu. The following screen appears:

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- Use the arrow keys to move between items and to select values. Modify the selected fields using the PgUP/PgDN keys. Press the <F1> “Help” key for information on the available options:

Option	Description
CPU L1 & L2 Cache	This field is used to speed up the memory access. Enable the external cache for better performance.
Quick Power On Self-Test:	Will enable you to cancel some checking item and increase the speed when you open the machine.
First/Second/Third Boot Device	The BIOS attempts to load the operating system from the devices in the sequence selected in these items. Choose: HDD-0, LS-120, USB FDD.....
Boot Other Device	Enable other device bootable not selected above.
Boot Up NumLock Status	Choose On or Off. On puts the numeric keypad in Num Lock mode at boot-up. Off puts the numeric keypad in arrow key mode at boot-up.
Gate A20 Option	This entry allows you to select how gate A20 is handled. Gate A20 is a device use to address memory above 1MB. Initially, gate A20 was handled via the keyboard controller. Today, while keyboards still provide this support, it is more common, and much faster, for the system chipset to provide support for gate A20. <i>Fast</i> . The chipset controls Gate A20.

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	<i>Normal A</i> [o mom the keyboard controls Gate A20.
Security Option	<p>Choose Setup or System. This lets you specify whether a password is required every time the system boots or only when an attempt is made to enter the CMOS Setup program.</p> <p>“Setup” – The password prompt only appears if you attempt to enter the CMOS setup program.</p> <p>“System” – The password prompt appears each time the system is booted.</p> <p><i>Note:</i> The password function is disabled by default. For a description of enabling the password function, refer to the section: Supervisor Password & User Password later in this chapter.</p>
OS Select for DRAM > 64MB	Set to OS/2 if your system is using OS/2 and has a memory size of more than 64MB

3.6 Advanced Chipset Features Setup

↓ Use the Advanced Chipset Features Setup option as follows:

1. Choose “Advanced Chipset Features Setup” from the main menu. The following screen appears;



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2. Move between items and select values by using the arrow keys. Modify the selected fields using the PnUP/PgDN Keys. For information on the various options, press

<F1> key .

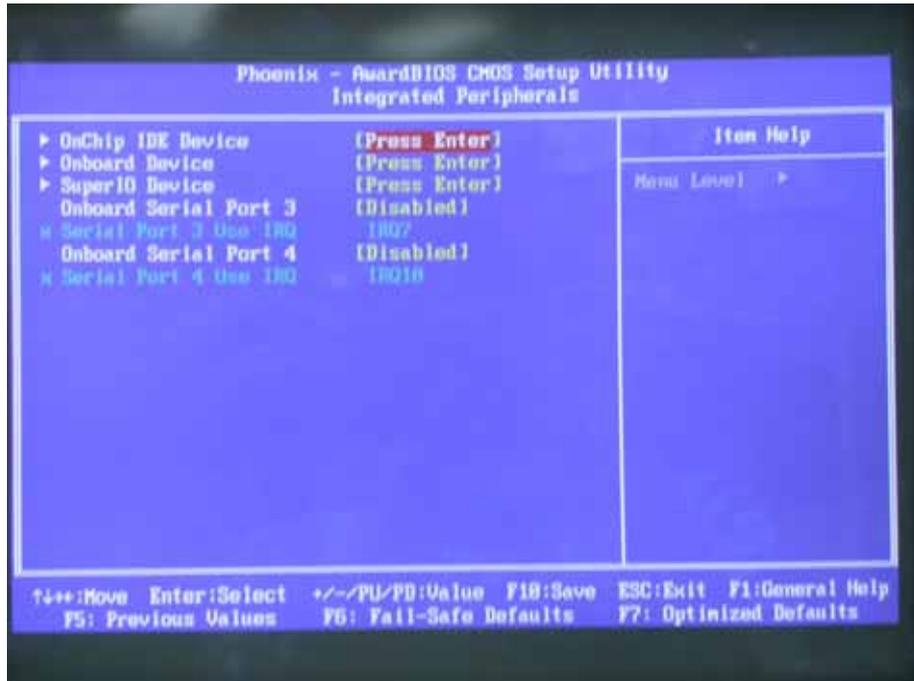
Option	Description
DRAM Timing Control	This field is used to select the timing of the DRAM. DRAM timing Configure < By SPD> X – CAS Latency Time 2 X – Active to Precharge Delay 5 X- DRAM RAS # to CAS# Delay 2 X – DRAM RAS# Precharge 2
DRAM Data Integrity Mode	Choose ECC or Non –ECC
CAS Latency Time	This field is used to select the local memory clock periods.
Active to Precharge Delay	Provide parameter of SDRAM for reference.
DRAM RAS# to CAS# Delay	Control the command order and start the cycle time for read/write command by SDRAM
DRAM RAS# Precharge	This field controls RAS# precharge (in local memory clocks)
System BIOS Cacheable	Choose Enabled or Disabled. When enabled, caching of the system BIOS at F0000h-FFFFFh, enhancing system performance. However, if any program writes to this memory area, a system error may result.
Video BIOS Cacheable	Choose Enabled or Disabled. When Enable this option to allow caching of the Video BIOS.
Memory Hole At 15M-16M	Choose Enabled or Disabled. You can reserve this area of system memory for ISA adapter ROM. When this area is reserved, it can not be cached. The user information of peripherals that need to use this area of system memory usually discusses their memory requirement.
AGP Aperture Size (MB)	This field is relevant to the memory-mapped graphics data of the AGP card installed in your system. Leave this in its default setting.

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3.7 Integrated Peripherals

↓ Use the Integrated Peripherals Setup option as follows:

1. Choose "Integrated Peripherals Setup" from the main menu. The following screen appears:



2. Move between items and select values by using the arrow keys. Modify the selected fields using the PgUP/PgDN keys. Please press the <F1> key for information on the various options.

Option	Description
Onboard Device	
USB Controller	Enabled the onboard USB. You can further configure the onboard USB in the "USB 2.0 controller" and "USB Keyboard Support" fields. Disables the onboard USB.
USB2.0 Controller	If you are using USB2.0, this field must be set to Enabled.
AC97 Audio	Auto Select this option when using the

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	onboard audio codec. Disabled Select this option when using a PCI sound card.
--	--

Super IO Device

Power ON Function	Password、 Hot Key、 Any Key、 Button Only、 Keyboard 98
KB Power ON Password	User define
Hot KEY Power ON	User define
Onboard Serial Port 1	3F8/IRQ4、 2F8/IRQ3、 3E8/IRQ4、 2E8/IRQ3、 AUTO
Onboard Serial Port 2	3F8/IRQ4、 2F8/IRQ3、 3E8/IRQ4、 2E8/IRQ3、 AUTO
Onboard Parallel Port	37//IRQ7、 278/IRQ5、 3BC/IRQ7
Parallel Port Mode	SPP/EPP/ECP/ECP+EPP
EPP Mode Select	EPP1.7
ECP Mode Use DMA	3
Power After PWR-Fail	Off/On/Former-Sts

POWER ON Function

The power button will not function once a keyboard password has been set in this field. You must type the correct password to power-on the system. If you forgot the password, turn off the system and remove the battery. Wait for a few seconds and install it back before powering-on the system.

IR Mode Select

This field is used to select the type of IrDA standard supported by your IrDA device. For better transmission of data, your IrDA peripheral device must be within a 30° angle and within a distance of 1 meter.

RxD, TxD Active

The options are Hi, Lo; Lo, Hi; Lo, Lo; and Hi, Hi.

UR2 Duplex Mode

Half Data is completely transmitted before receiving data.

Full Transmits and receives data simultaneously.

Onboard Parallel Port

378/IRQ7, 3BC/IRQ7, 278/IRQ5 Selects the I/O address and IRQ for the onboard

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parallel port.

Disabled Disables the onboard parallel port.

Parallel Port Mode

The options are SPP, EPP, ECP and ECP+EPP. These apply to a standard specification and will depend on the type and speed of your device. Refer to your peripheral's manual for the best option.

SPP

Allows normal speed operation but in one direction only.

ECP (Extended Capabilities Port)

Allow parallel port to operate in bidirectional modes and at a speed faster than the normal mode's data transfer rate.

EPP (Enhanced Parallel Port)

Allows bidirectional parallel ports to operation at maximum speed.

If you selected EPP, the "EPP Mode Select" field is configurable. If you selected ECP, the "ECP Mode Use DMA" field is configurable. If you selected ECP+EPP, both "EPP Mode Select" and "ECP Mode Use DMA" are configurable.

PWRON after PWR-Fail

This function allows you to setup the system whether you want restart or shut down the machine after the powers interrupt.

Off: Remain system closed when you restart the power

On: when restart the power it will remain the status that power is not interrupt.

Former-Sts: The system will back to the status that power is not interrupt.

Watch Dog Timer Select

You can set up the watchdog timer.

3.8 Power Management Setup

The Power Management Setup controls the board's "green" features. To save energy these features shut down the video display and hard disk drive.

↓ **Use the Power Management Setup option as follows:**

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1. Choose "Power Management Setup" from the main menu. The following screen appears.



2. Move between items and select values by using the arrow keys. Modify the selected field the PgUP/PgDN keys. For information on the various options, press <F1> key.

Option	Description
ACPI Function	This function should be enabled only in operating systems that support ACPI. Currently, only Windows 98SE/2000/ME/XP supports this function. When this field is enabled, the system will ignore the settings in the "Suspend Mode" and "HDD Power Down" fields. If you want to use the Suspend to RAM function, make sure this field is enabled then select "S3 (STR" in the field below.
ACPI Suspend Type	This field is used to select the type of Suspend mode. S1 (POS) Enables the Power On Suspend function. S3 (STR) Enables the Suspend to RAM function. You can further configure this function by setting.
The "Run VGABIOS if S3 Resume" and "USB KB	When this field is set to Auto, the system will initialize the VGA BIOS when it wakes up from the S3 state. This

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Wake-up From S3" fields. Run VGABIOS if S3 Resume	can be configured only if the "ACPI Suspend Type" field is set to " S3 (STR)"
Power Management	This field allows you to select the type (or degree) of power saving by changing the length of idle time that elapses before the "Suspend Mode" and "HDD Power Down" field is activated. Min Saving Minimum power saving time for the " Suspend Mode" and "HDD Power Down" =15min. Max Saving Maximum power saving time for the "Suspend Mode" and "HDD Power Down"=1 min. User Define Allows you to set the power saving time in the "Suspend Mode" and "HDD Power Down" field.
Video Off Method	This determines the manner in which the monitor is blanked. V/H SYNC + Blank This selection will cause the system to turn off the vertical and horizontal synchronization ports and write blanks to the video buffer.
Bland Screen	This option only writes blanks to the video buffer. DPMS initializes display power management signaling. Use this option if your video board supports it. Video Off In Suspend This field is used to activate the video off feature when the system enters the Suspend mode.
Suspend Mode	When the system enters the Suspend mode, the CPU and onboard peripherals will be shut off.
HDD Power Down	This is selectable only when the power management filed is set to user define. When the system enters the HDD power down mode according to the power saving time selected, the hard disk drive will be powered down while all other devices remain active.
Soft-Off by PWR-BTTN	This field allows you to select the method of powering off you system. Delay 4 sec. regardless of whether the power management function is enable or disabled, if the power button is pushed and released in less than 4 sec, the system enter the suspend mode. The purpose of this function is to prevent the system from powering off in case you accidentally " hit" or pushed the power

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	button. Push and release again in less than 4 sec to restore. Pushing the power button for more than 4 seconds will power off the system.
Instant-off	Pressing and then releasing the power button at once will immediately power off your system.
Resume on PCI Event	Enable this field should be set to enabled only if your PCI card such as LAN card or modem card uses the PCI PME (Power Management Event) signal to remotely wake up the system. Access to the LAN card or PCI card will cause the system to wake up. Refer to the Disable The system will not wake up despite access to the PCI card.
Wake up on LAN	If you are using a LAN card that supports the remote wake up function, set this field to Enabled. The will allow the network to remotely wake up a soft power down (Soft-off) PC. However, if your system is in the suspend mode, you can wake up the system only through an IRQ or DMA interrupt.
Resume By Alarm	Enabled when enabled, you can set the date and time you would like the soft power down (Soft-off) PC to power –on in the “Date (of Month) Alarm” and “Time (hh:mm:ss) Alarm” fields. However, if the system is accessed by incoming calls or the network (Resume On Ring/LAN) that prior to the date and time set in these fields, the system will give priority to the incoming calls or network. Disabled Disables the automatic power-on function. (Default)

3. After you have finished with the Power Management Setup, press the <ESC> key to return to the main menu.

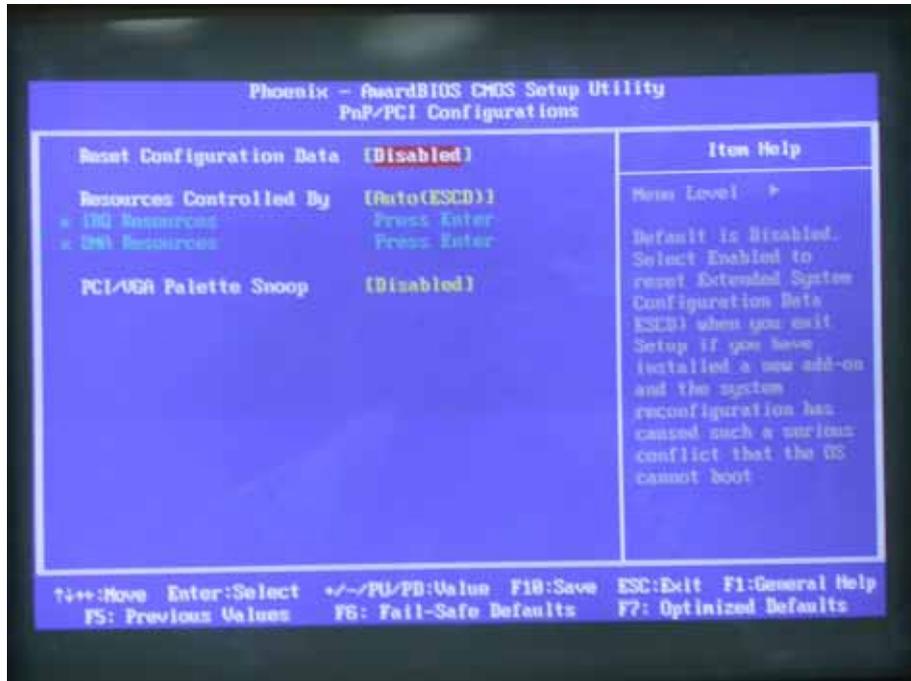
3.9 PNP/PCI Configuration

This option is used to configure Plug and Play assignments and route PCI interrupts to designated ISA interrupts.

↓ Use the PNP/PCI Configuration Setup option as follows:

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1. Choose "PNP/PCI Configuration Setup" from the main menu, the following screen appears.



2. Move between items and select values by using the arrow keys. Modify the selected fields using the PgUP/PgDN keys. For information on the various options, please press <F1> key.

Option	Description
PNP OS installed	NO: BIOS program will adjust all the set up by itself YES: When you install the system that support plug & play, press <YES>
Reset Configuration Data	Enabled The BIOS will reset the Extended System Configuration Data (ESCD) once automatically. It will then recreate a new set of configure data Disabled The BIOS will not reset the configuration data Resources controlled by the Award plug and play BIOS has the capability to automatically configure all of the boot and plug and play compatible devices. Auto (ESCD) The system will automatically detect the settings for you. Manual choose the specific IRQ in the " IRQ Resources" field.
PCI/VGA Palette Snoop	This field determines whether the MPEG ISA/VESA VGA

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	cards a work with PCI/VGA or not Enable MPEG ISA/VESA VGA cards work with PCI/VGA Disabled MPEG ISA/VESA VGA card does not work with PCI/VGA
--	--

3. Please press the <ESC> key to return the main menu after finishing with the PNP/PCI Configuration Setup.

3.10 PC Health Status Configuration Setup

Choose "PC Health Status Configuration Setup" from the main menu, the following screen appears:



3.11 Load Fail-Safe Defaults

This option loads the troubleshooting default values permanently stored in the BIOS ROM. This is useful if you are having problems with the main board and need to debug or troubleshoot the system. The loaded default settings do not affect the Standard CMOS Setup screen.

To use this feature, highlight it on the main screen and press <Enter>. A line will

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appear on the screen asking if you want to load the BIOS default values. Press the <Y> key and then press <Enter> if you want to load the BIOS default.

3.12 Load Optimized Defaults

This option loads optimized settings stored in the BIOS ROM. The auto-configured settings do not affect the Standard CMOS Setup screen.

To use this feature, highlight it on the main screen and press <Enter>. A line will appear on the screen asking if you want to load the Optimized Default Values. Press the <Y> key and then press <Enter> if you want to load the SETUP default.

3.13 Supervisor/User Password

The password options let you prevent unauthorized system boot-up or unauthorized use of CMOS setup. The Supervisor Password allows both system and CMOS Setup program access; the User Password allows access to the system and the CMOS Setup Utility main menu.

The password functions are disabled by default. You can use these options to enable a password function or, if a password function is already enabled, change the password.

To change a password, first choose a password option from the main menu and enter the current password. Then type your new password at the prompt. The password is case sensitive and you can use up to 8 alphanumeric characters. Press <Enter> after entering the password. At the Next Prompt, confirm the new password by typing it and pressing <Enter> again.

After you use this option to enable a password function, use the "Security Option" in "BIOS Feature Setup" to specify whether a password is required every time the system boots or only when an attempt is made to enter the CMOS Setup program.

3.14 Save and Exit Setup

This function automatically saves all CMOS values before exiting Setup.

3.15 Exit Without Saving

Use this function to exit Setup without saving the CMOS value.

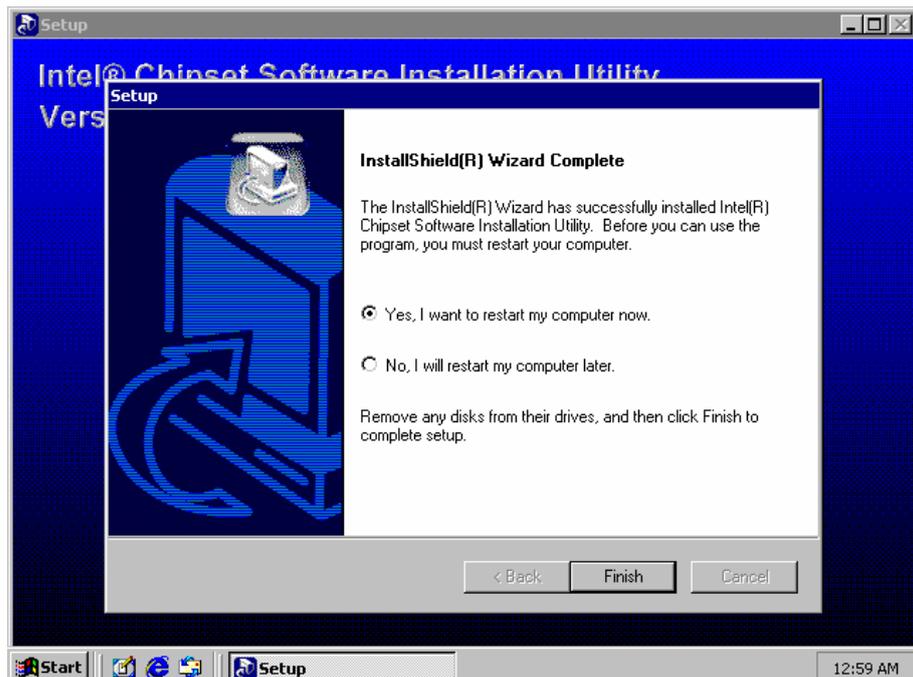
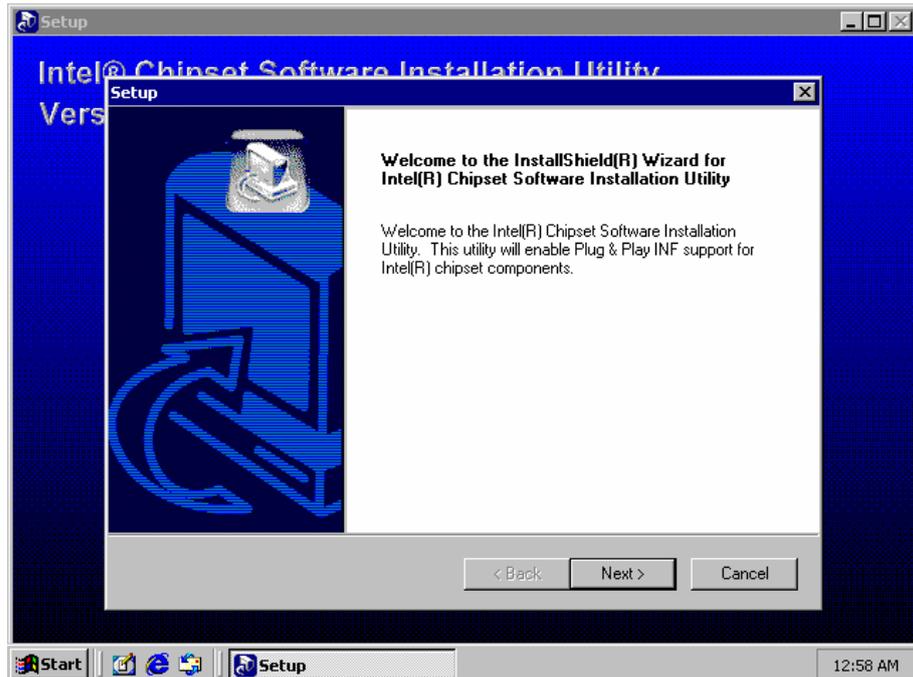
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Chapter 4. Driver & Utility

The system driver installation procedure must be performed first.

4.1 Chipset Software Installation Utility

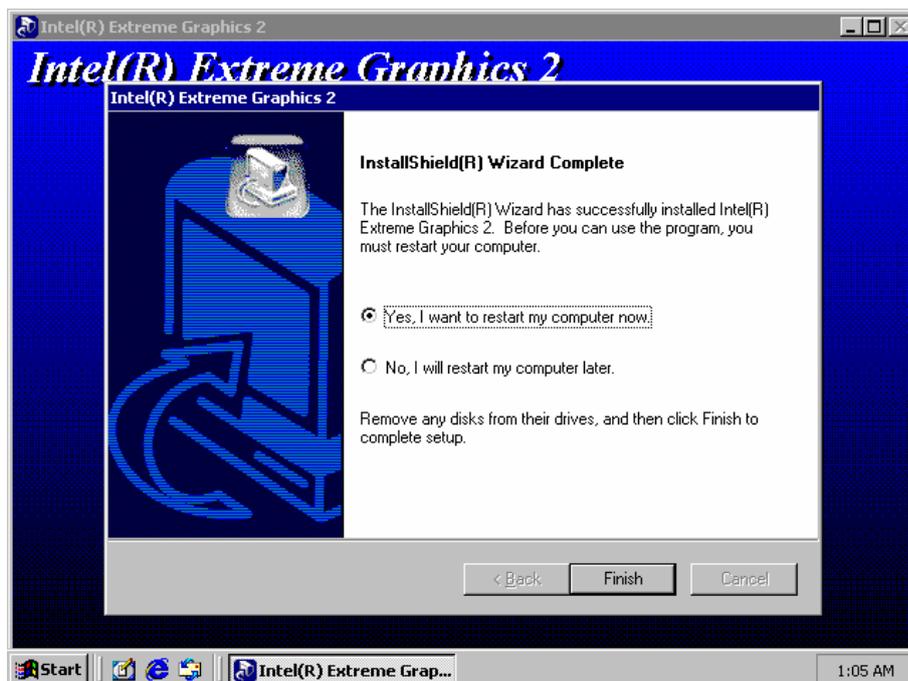
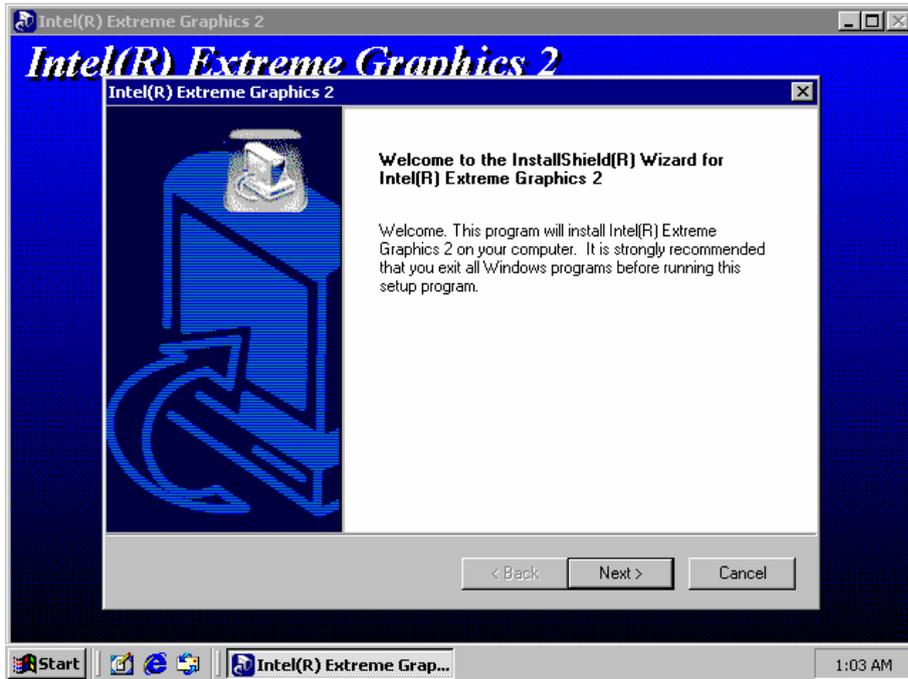
It enables plug & play INF support for Intel® chipset components. Insert the setup CD then install the driver following the instruction.



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4.2 CRT/LVDS Driver Installation

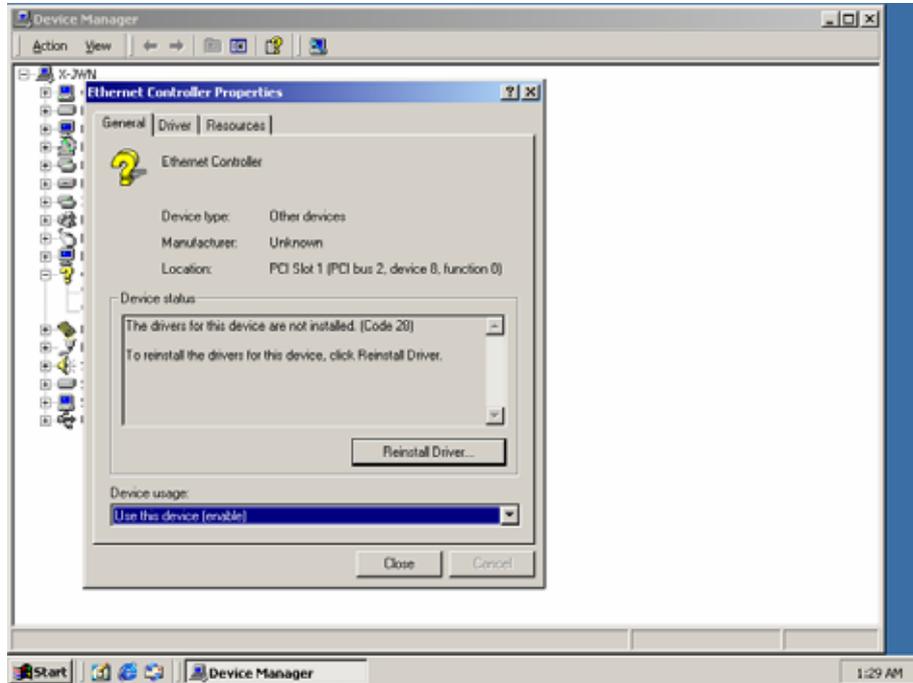
It support CRT or LVDS display function. Double click the utility in the setup CD to finish the installation.



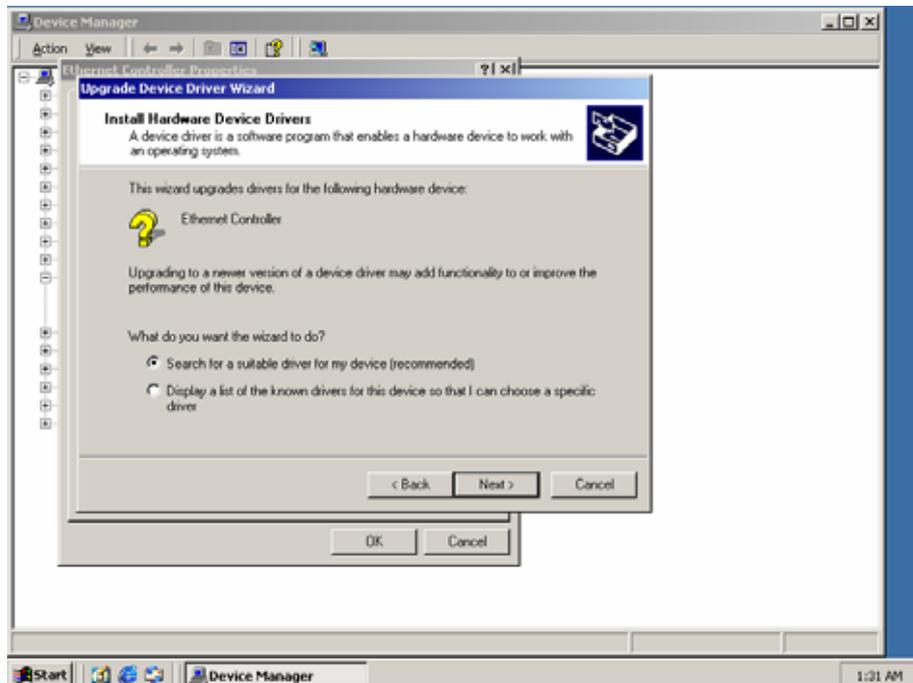
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4.3 Ethernet Driver Installation

It supports the 10/100 Ethernet function by using Intel® 82551ER. Go to the “Device Manager”, choose the “Ethernet Controller” to update the driver.

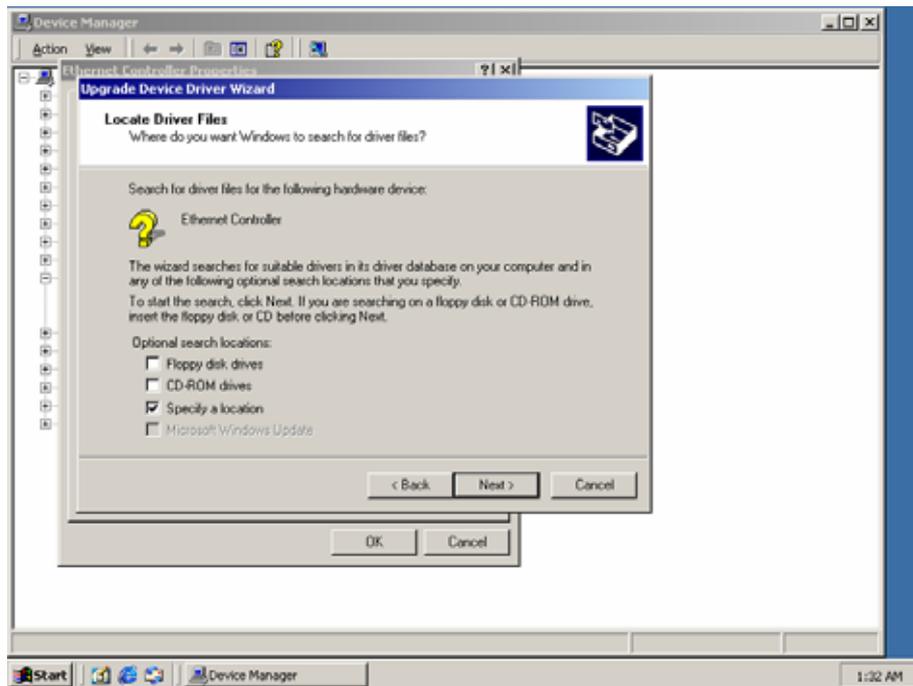


Choose the “Search for a suitable driver for my device”, click “Next” button.

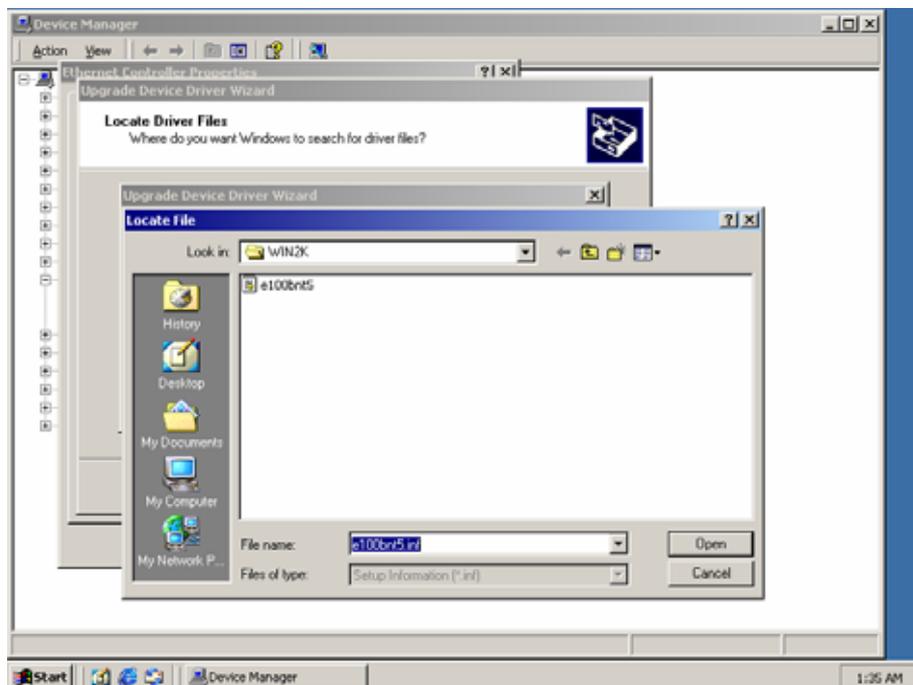


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Choose "Specify a location", then click "Next" button.

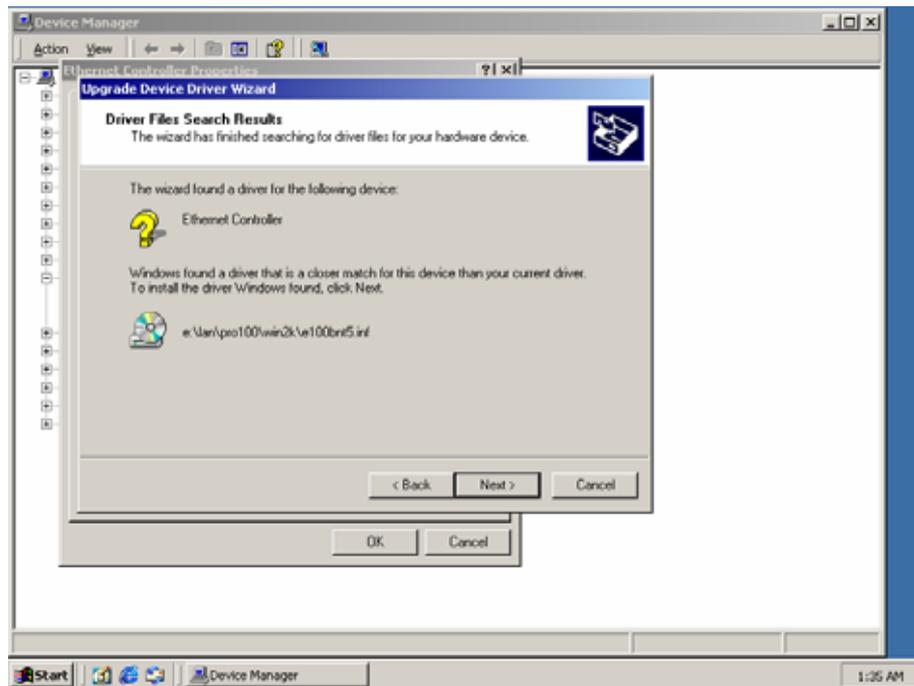


Find the driver file in the setup CD directory, choose the file then click "Open" button.

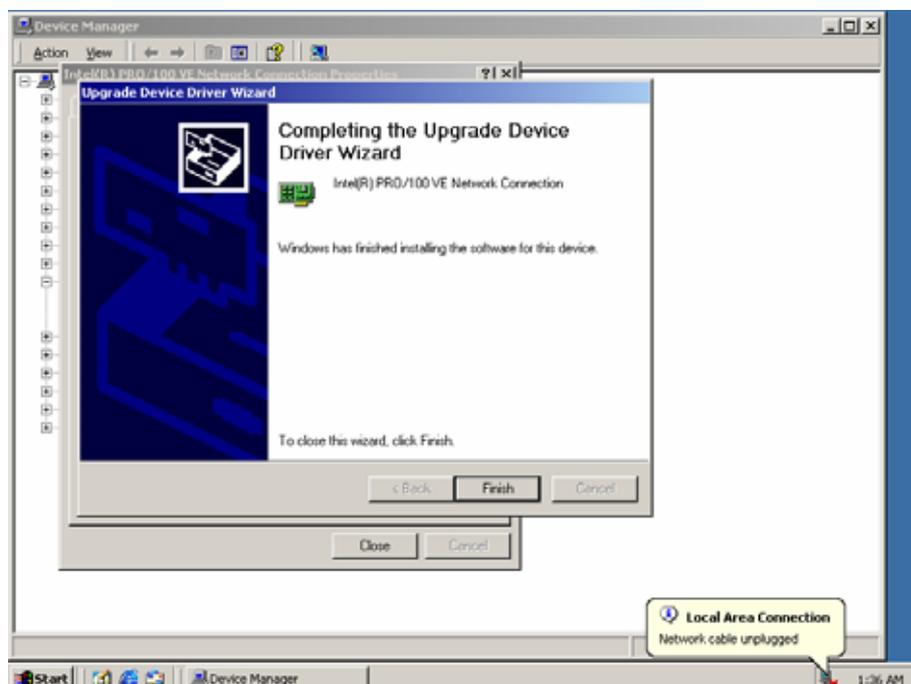


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Find the correct driver file, then press the “Next” button.



Press “Finish” button to complete the installation.



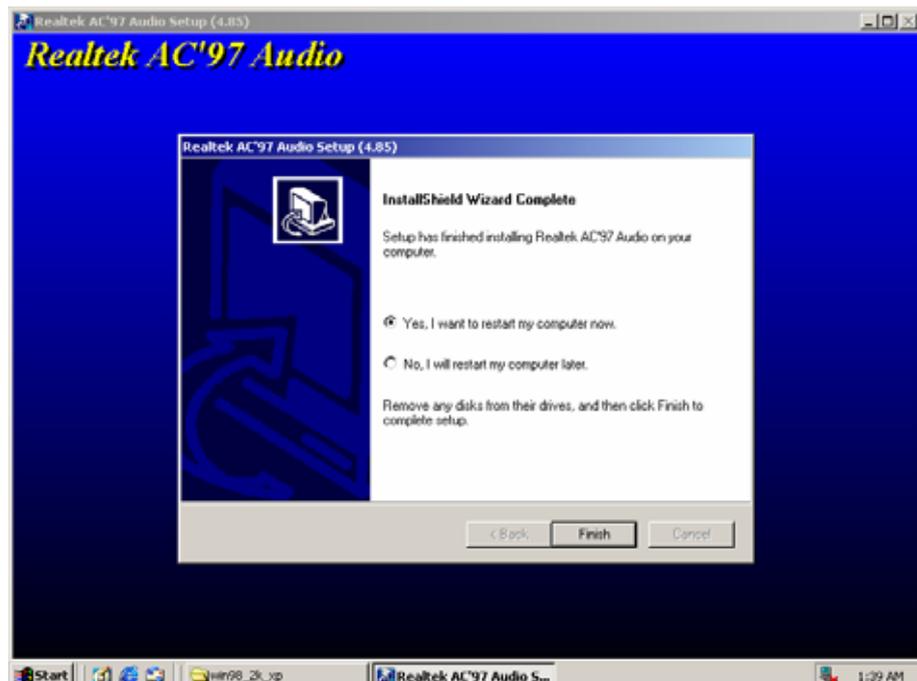
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4.4 AC97 Audio Driver Installation

It supports AC97 audio function by using Realtek CODEC. Double click the file in the setup CD, follow the instruction to finish the installation.



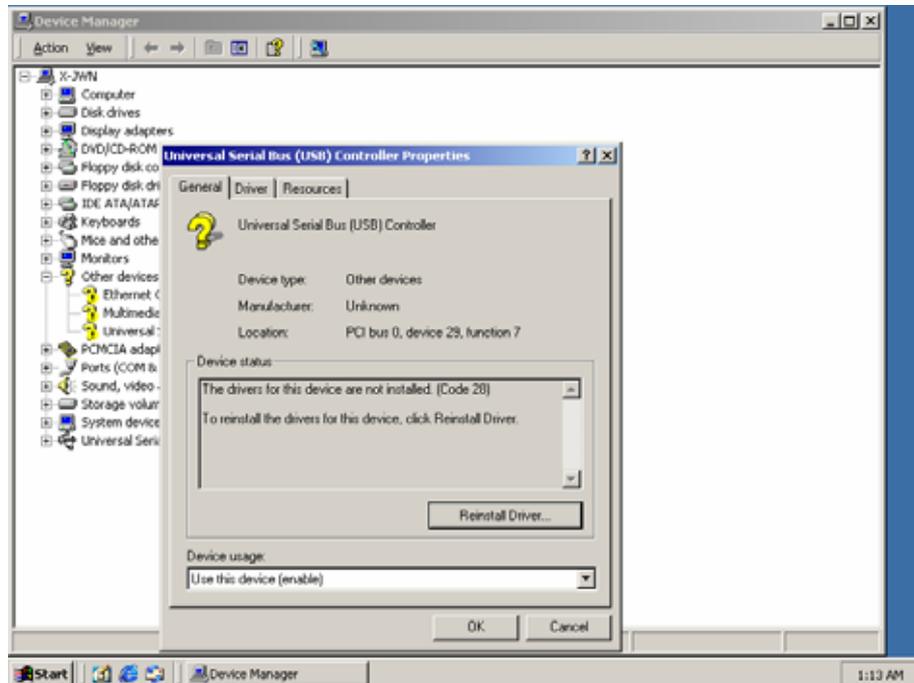
Choose “Yes, I want to restart my computer now”, then press “Finish” button to complete the installation.



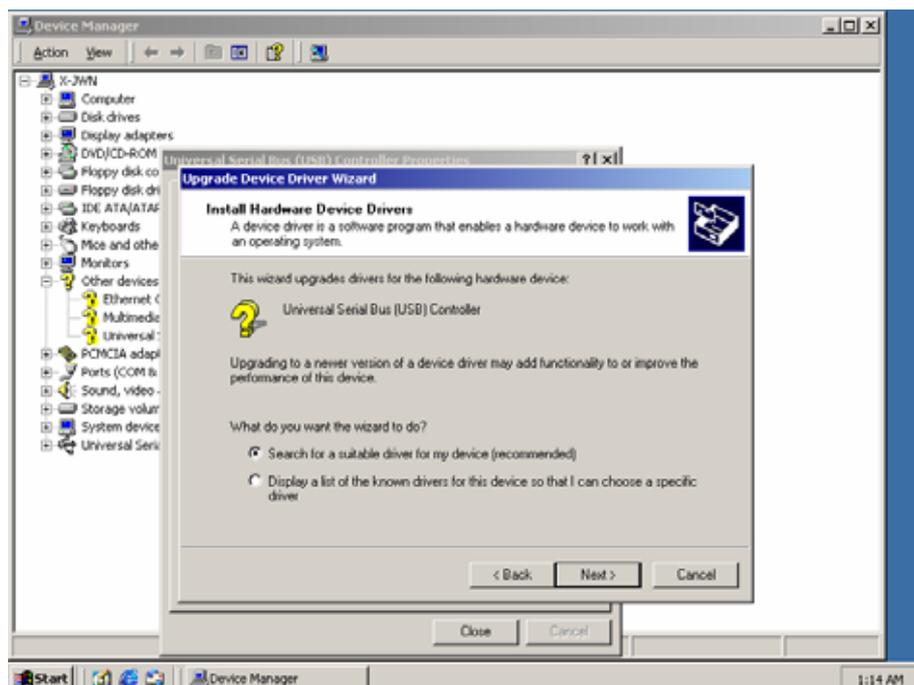
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4.5 USB2.0 Driver Installation

Go to the “Device Manager”, choose “Universal serial bus” to update the driver.

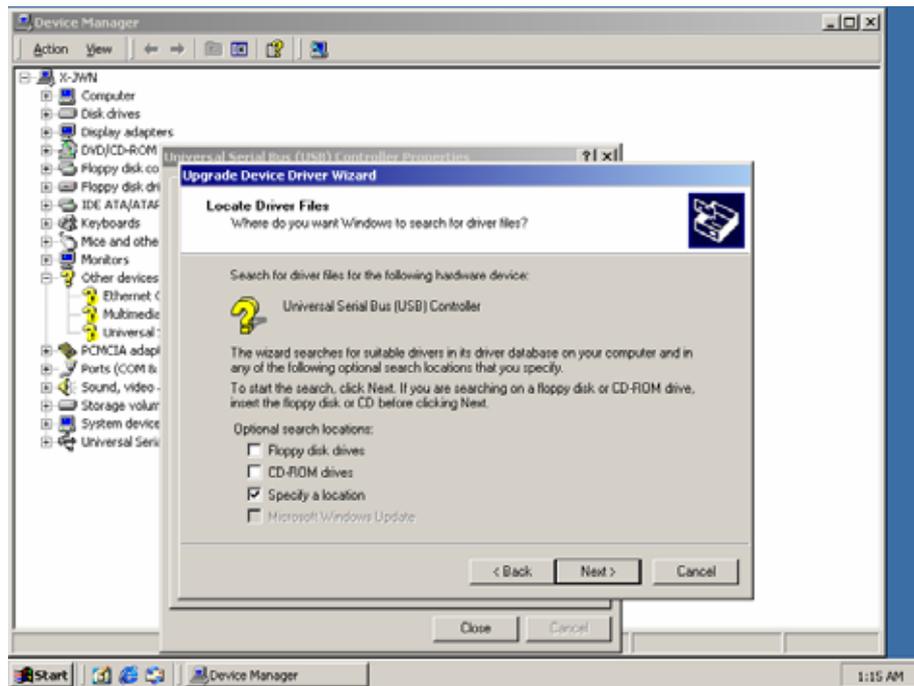


Choose “Search a suitable driver for my device”, then press “Next” button.

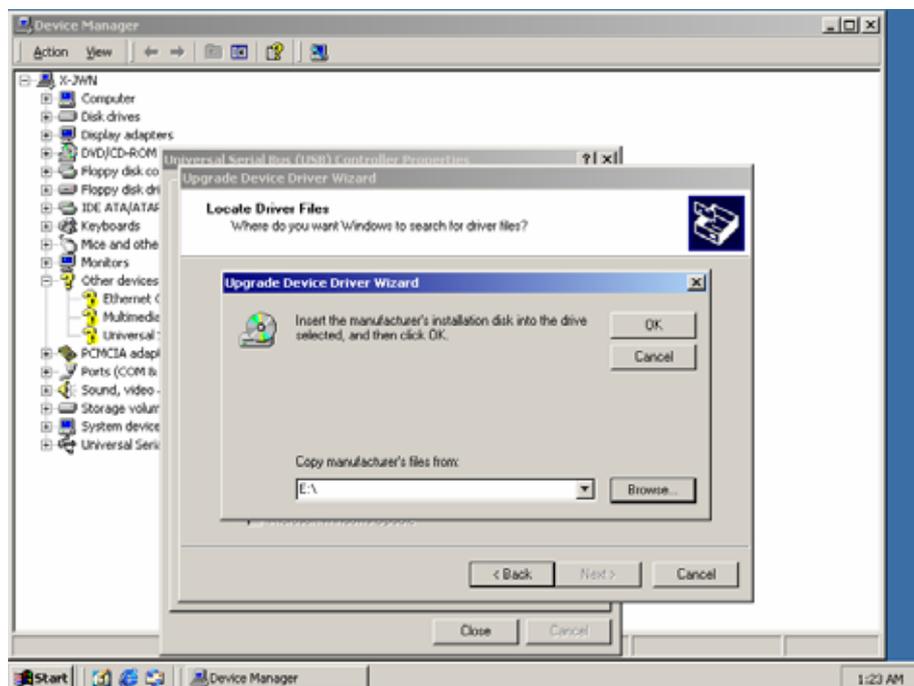


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Choose "Specify a location", then press "Next" button.

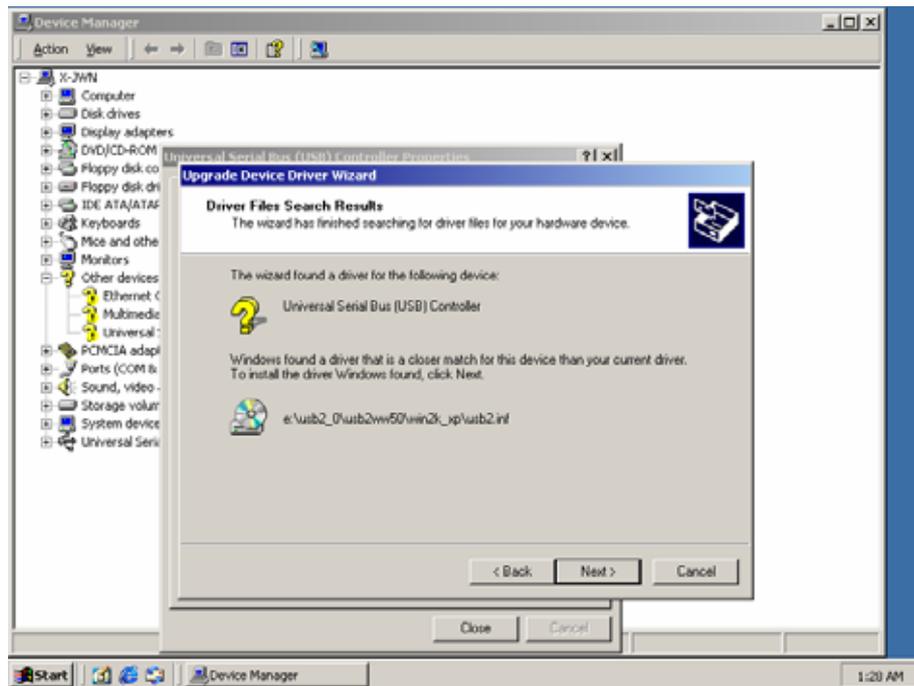


Choose the drive and file the setup CD is located, then press "Next" button.



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Find the correct driver, then press "Next" button.



Press "Finish" button to complete the installation.

