

# **XP-P5IM800GV**

Intel® Pentium® 4 LGA775 Processor Motherboard

## **User's Manual**

M-050401

## Copyright Declaration

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## Terms of Use

To avoid unnecessary errors of operation, please consult the user manual prior to hardware installation. For more up-to-date information, please link to our company website at <http://www.xper.com.tw>

Prior to beginning installation procedures, please make sure that your computer turned off and is connected to a grounded power outlet. If your system is not turned off during installation, this could result in harm or damage to the motherboard, the components as well as to the user.

### Declaration of Conformity

Via Manufacture/Importer  
 Gigatrend Technology Co., Ltd.  
 Ausschäfer Weg 41, D-73537 Heimbach, Germany  
 declare that the product  
**Motherboard**  
**XP-P5IM800GV**  
 is in conformity with  
 (reference to the specification under which conformity is declared)  
 in accordance with 89/338/EEC(EMC Directive)

- |                                       |  |                                       |   |
|---------------------------------------|--|---------------------------------------|---|
| <input type="checkbox"/> EN 55011     | Limits and methods of measurement of radio interference characteristics of industrial, scientific and medical (ISM) radio frequency equipment          | <input type="checkbox"/> EN 61008-3-2 | Disturbances in supply systems caused by household appliances and similar electrical appliances ("follow-on functions") |
| <input type="checkbox"/> EN 55013     | Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment                                 | <input type="checkbox"/> EN 61008-3-3 | Disturbances in supply systems caused by household appliances and similar electrical appliances ("follow-on functions") |
| <input type="checkbox"/> EN 55014-1   | Limits and methods of measurement of radio disturbance characteristics of radiofax electronic equipment, portable fax and similar electrical apparatus | <input type="checkbox"/> EN 55024     | Information Technology equipment-Immunity Characteristics-Limits and methods of measurement                             |
| <input type="checkbox"/> EN 55015     | Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment                                 | <input type="checkbox"/> EN 50082-1   | Generic immunity standard Part 1: Radiated: Commercial and light industry   |
| <input type="checkbox"/> EN 55016     | Limits and methods of measurement of radio disturbance characteristics of radiofax electronic equipment, portable fax and similar electrical apparatus | <input type="checkbox"/> EN 50082-2   | Generic immunity standard Part 2: Industrial environment  |
| <input type="checkbox"/> EN 55018     | Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment                                 | <input type="checkbox"/> EN 55014-2   | Immunity requirements for household appliances tools and similar apparatus  |
| <input type="checkbox"/> EN 55020     | Immunity from radio interference of broadcast receivers and associated equipment   | <input type="checkbox"/> EN 50081-2   | EMC test methods for uninterruptible power systems (UPS)  |
| <input type="checkbox"/> EN 55022     | Limits and methods of measurement of radio disturbance characteristics of information technology equipment   |                                       |   |
| <input type="checkbox"/> DIN VDE 0855 | Classed distribution systems: Equipment for receiving signals: Protection from second and television signals   |                                       |   |

CE marking



(CE conformity marking)

The manufacturer also declares the conformity of above mentioned product with the relevant important safety standards in accordance with LVD 73/23/EEC

- |                                   |   |                                     |   |
|-----------------------------------|---|-------------------------------------|---|
| <input type="checkbox"/> EN 60065 | Safety requirements for mains operated electronic and related apparatus for household and similar general use | <input type="checkbox"/> EN 60950   | Safety for information technology equipment including electrical business equipment |
| <input type="checkbox"/> EN 60335 | Safety of household and similar electrical appliances   | <input type="checkbox"/> EN 50081-1 | General and Safety requirements for uninterruptible power systems (UPS)             |

Manufacturer/Importer

Signature: Jimmy Huang

(Date)

Date: May 27, 2005

Name: Jimmy Huang

## DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



Responsible Party Name: **Gigatrend Technology Co., Ltd (U.S.A.)**

Address: **17358 Railroad Street  
 City of Industry, CA 91748**

Phone/Fax No: **(818) 854-9338/ (818) 854-9339**

heroby declares that the product

**Product Name: Motherboard**

**Model Number: XP-P5IM800GV**

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109(a),  
 Class B Digital Device

**Supplementary Information:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any interference received, including that which may cause undesired operation.

Representative Person's Name: ERIC LI

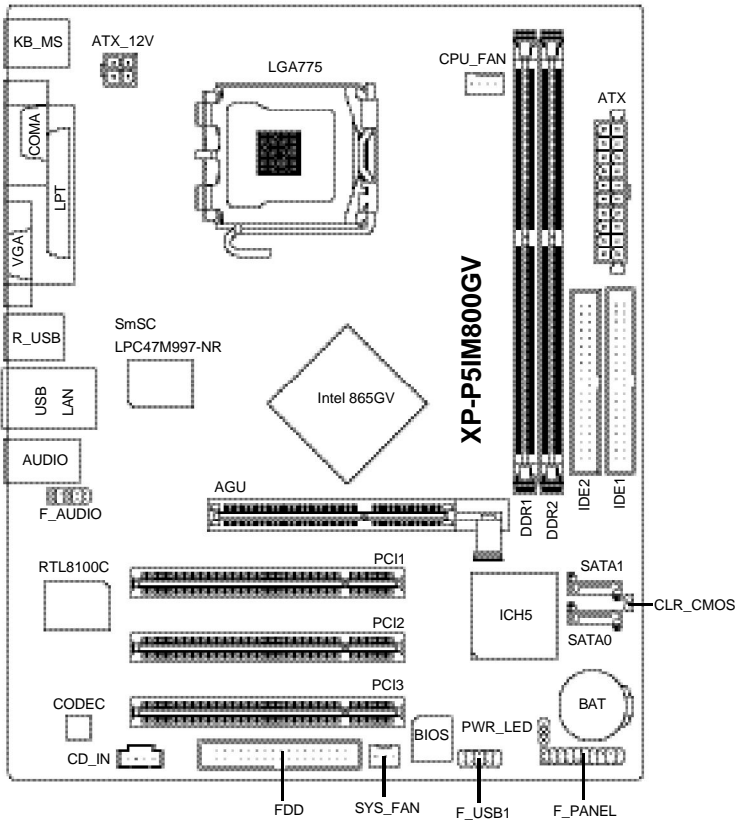
Signature: ERIC LI

Date: May 27, 2005


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# Motherboard Layout



# 1. Product Introduction

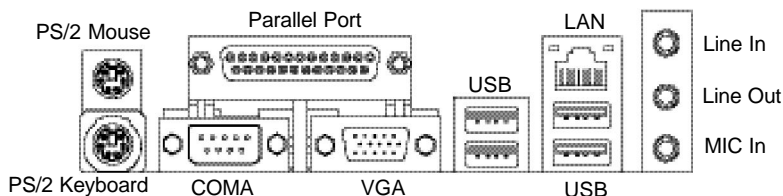
The user manual provides steps related to quick installation. If you wish to view complete product information, please select the , Open User Manual button located on the driver CD or link to our website at <http://www.axper.com> to received the most up-to-date information.

## 1.1. Feature Summary

CPU	LGA775 for Intel®Pentium®4 Processor Intel®Pentium®4 533/800MHz FSB L2 cache depends on CPU
Chipset	North Bridge: Intel® 865GV South Bridge: Intel® ICH5
Memory	2 184-pin DDR DIMM sockets, supports up to 2GB DRAM (Max) Supports dual channel DDR400/DDR333 DIMM Supports only 2.5V DDR SDRAM
Slots	1 AGU slot device support 3 PCI slots support 33MHz & PCI 2.2 compliant
On-Board IDE	2 IDE controller provide IDE HDD/CD-ROM(IDE1, IDE2) with PIO, Bus Master (Ultra DMA33/ATA66/ATA100) operation modes Can connect up to 4 IDE devices
On-Board Floppy	1 Floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M and 2.88M bytes
On-Board SATA	2 Serial ATA ports
On-Board Peripherals	1 Parallel port supports Normal/EPP/ECP mode 1 Serial port (COMA), 1 VGA port 6 USB 2.0/1.1 ports (4 x Rear, 2 x Front by cable) 1 Front Audio connector 1 PS/2 Keyboard 1 PS/2 Mouse
On-Board LAN	Built-in RTL8100C chipset 1 RJ45 port
On-Board VGA	Built-in Intel® 865GV chipset
On-Board Sound	ALC655 CODEC Supports 2/4/6 channel Line Out / Line In / Mic In CD In
BIOS	Licensed AWARD BIOS Supports BIOSNow!
I/O Control	SmSc LPC47M997-NR
Hardware Monitor	CPU/System Fan Revolution detect CPU/System temperature detect System Voltage detect
Form Factor	Micro ATX size form factor, 24.4cm x 21cm

## 1.2. I/O Back Panel and Connectors&Jumper Setting

### 1.2.1. I/O Back Panel

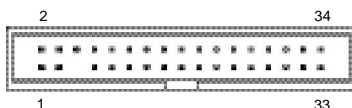


PS/2 Keyboard	Connects PS/2 standard keyboard and PS/2 standard mouse
PS/2 Mouse connector	Connects PS/2 standard keyboard and PS/2 standard mouse
Parallel port (LPT)	Connects to printer
COMA (Serial port)	Connects to serial-based mouse or data processing devices
VGA port	Connects to 15pin D-Sub device such as a monitor
USB (Universal Serial Bus Port)	Prior to use, please make sure that your system as well as the connected attachments support the USB interface. If driver installation is required, please consult the USB section of the user manual.
LAN (RJ45 LAN Port)	Internet connection with speed of up to10/100Mbps
Line In	Connects to optical devices, CD players and other audio input devices
LineOut	Connects to speakers or headphones
Mic In	Connects to microphone

### 1.2.2. Connectors&Jumper Setting

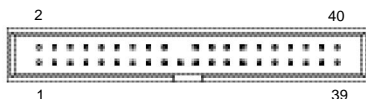
#### FDD (Floppy Disk Drive Connector)

The FDD connector is able to connect a single floppy disk drive via a FDD cable. Usually one edge of the FDD cable is marked in red, please attach this marked edge to position 1 on the connector.



#### IDE1 / IDE2 (IDE1 and IDE2 Connector)

The IDE connector is able to connect two IDE devices via an IDE cable and requires checking of the IDE jumper setting. It is recommended that the hard drive be connected to the first IDE connector while the optical drive be connected to the second IDE connector.



**CPU\_FAN (CPU Fan Power Connector); SYS\_FAN (System Fan Power Connector)**



The cooler fan power connector supplies a +12V power voltage via a 3-pin/4-pin(only for CPU\_FAN) power connector and possesses a ful-proof connection design.

Most coolers are designed with color-coded power connector wires. A red power connector wire indicates a positive connection and requires a +12V power voltage. The black connector wire is the ground wire (GND).

Please remember to connect the power to the cooler to prevent system overheating and failure.

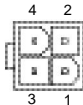
Caution!

Please remember to connect the power to the CPU fan to prevent CPU overheating and failure.

	PIN	SIGNAL
	1	GND
	2	+12V
	3	Sense
	4	Speed Control (Only for CPU_FAN)

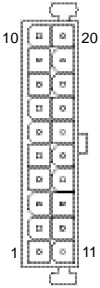
**ATX\_12V (+12V Power Connector)**

The ATX\_12V power connector provides power to the CPU. If this connector is not Attached, the system will not start.

	PIN	SIGNAL
	1	GND
	2	GND
	3	+12V
	4	+12V

**ATX (ATX Power Connector)**

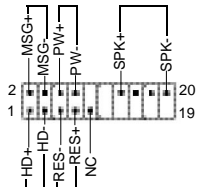
The ATX power connector provides power to the motherboard. Prior to connection, please make sure that the power supply is disconnected.

	PIN	SIGNAL	PIN	SIGNAL
	1	3.3V	11	3.3V
	2	3.3V	12	-12V
	3	GND	13	GND
	4	VCC	14	PS_ON (soft on/off)
	5	GND	15	GND
	6	VCC	16	GND
	7	GND	17	GND
	8	Power Good	18	-5V
	9	5VSB (stand by +5V)	19	VCC
	10	+12V	20	VCC

**F\_PANEL (Front Panel Control Connector)**

The F\_Panel Control Connector connects to certain connectors on the front panel of the system casing such as IDE Hard Disk Active LED, speaker, reset, and power on/off connectors.

You can use the schematic diagram below as the basis for connection.

	PIN	SIGNAL
	HD	IDE Hard Disk Active LED
	SPK	Speaker Connector
	RES	Reset Switch
	PW	Soft Power Connector
	MSG	Message LED/Power/Sleep LED
	NC	NC

**PWR\_LED**

Connects to the system power LED indicator whereby the power is indicated as ON or OFF. However, the indicator will flash when the system is suspended.

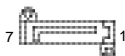


PIN	SIGNAL
1	MPD+
2	MPD-
3	MPD-

**SATA0/SATA1 (Serial ATA Connector, controlled by ICH5)**

The SATA0/1 connector is able to connect a single Serial ATA device via a SATA cable.

For the connected SATA hard disk to work correctly, please check the related BIOS setting and install proper driver for the SATA controller.



PIN	SIGNAL	PIN	SIGNAL
1	GND	5	RXN
2	TXP	6	RXP
3	TXN	7	GND
4	GND		

**F\_AUDIO (Front Audio Connector)**

Connects to the audio connector located on the front panel of the system casing (dependent on case design). When use of the front panel audio connector is required, please remove the 5-6 pin, 9-10pin jumper.

Please note that use of only the front panel audio connector or the rear panel audio connector is permitted.



PIN	SIGNAL	PIN	SIGNAL
1	MIC	6	Rear Audio (R)
2	GND	7	Reserved
3	MIC_BIAS	8	NO PIN
4	POWER	9	Front Audio (L)
5	Front Audio (R)	10	Rear Audio (L)

**CD\_IN (Optical Drive Audio Connector)**

Connects CD-ROM or DVD-ROM audio connector.



PIN	SIGNAL
1	CD_L
2	GND
3	GND
4	CD_R

**F\_USB1 (Front USB Connector)**

Connects to the USB connector located on the front panel of the system casing (dependent on case design). Note: Please make sure that each USB connection matches its designated position. If connections are made incorrectly, the result can lead to inability to use the function or even damage.





PIN	SIGNAL	PIN	SIGNAL
1	POWER	6	USB Dy+
2	POWER	7	GND
3	USB Dx-	8	GND
4	USB Dy-	9	NO PIN
5	USB Dx+	10	NC



## CLR\_CMOS (Clear CMOS)

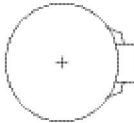
You can clear the motherboard CMOS with the jumper to return your system to its initial status. To prevent improper usage, the jumper does not include the jumper plug. If you wish to use the Clear CMOS function, please short circuit the 1-2 Pin.

 1 Open : Normal

 1 Short : Clear CMOS

## BAT(Battery)

The improper removal of the battery can result in harm. When replacing a battery, please make sure you use one that is of similar brand and model number.



For information related to battery specifications and precautions, please refer to the manufacturer instructions.

If you wish to delete the data stored in the CMOS, please follow the steps below:

1. Please turn off your computer and unplug the power.
2. Remove the battery from the motherboard.
3. Wait 10 minutes and then replace the battery onto the motherboard.
4. Plug in the power supply and turn on your system.

## 2. Hardware Installation



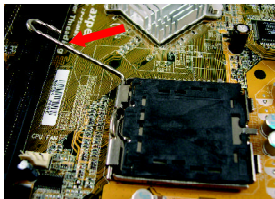
1. Please make sure that the CPU used is supported by your motherboard.
2. Please be aware of the placement position of the CPU. If the CPU does not insert properly, do not apply force but check the placement position.
3. Please make sure that an even layer of heat sink paste is added between the CPU and the fan sink.
4. Please do not turn on the power prior to installing the fan sink. Doing so can result in overheating and lead to permanent damage to the CPU.
5. Please follow the CPU specifications when setting the frequency. It is not recommended that system speed settings exceed that of hardware specifications. If you wish to set your system speed to exceed the recommended specifications, please check your hardware specifications eg: CPU, graphics card, memory, hard drive

The following must be supported to allow the use of Hyper-Threading Technology:

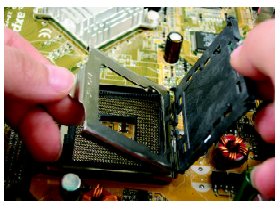
- an Intel Pentium 4 CPU with HT
- a motherboard supporting HT
- HT selection feature within BIOS
- an operating system supporting HT

## 2.1. Installation of a LGA775 Pentium 4 CPU and Fan Sink

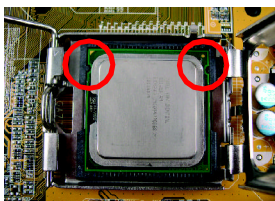
### 2.1.1. Installation of a LGA775 CPU



1. Push the socket lever arm down and away from the CPU socket and raise it up completely.



2. Open the load plate and gently remove the plastic cover.

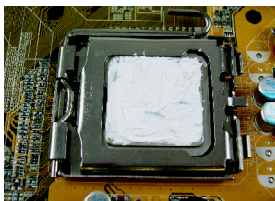


3. Hold the CPU with your thumb and index fingers (do not touch the bottom of the CPU when holding it). Align notches on the two sides of the CPU with the small sockets of the CPU socket and place the CPU straight down.

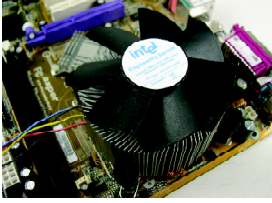


4. Make sure the CPU is properly installed and then close the load plate. Lower the socket lever and engage it to lock the CPU in place.

### 2.1.2. Installation of Fan Sink



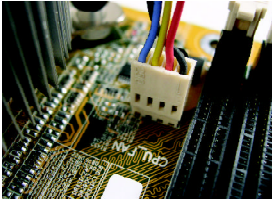
1. Apply a thin coating of thermal paste to completely cover the surface of the CPU.



- Align the four fasteners of the fan sink with the four holes around the CPU socket. Push down each fastener and you should hear a "click" when the fastener is attached. Make sure the four fasteners are attached securely.

**NOTE**

Prior to installation of the fan sink, check the direction of each fastener by the arrow engraved on fastener top. Before attaching the fasteners, turn each fastener clockwise. To uninstall the fan sink, release each fastener by rotating the fastener along the direction of the arrows and pull them up.



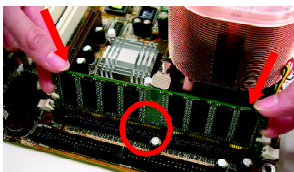
- Connect the 4-wire power cable of the fan sink to the CPU\_FAN header on the motherboard to complete the installation.

## 2.2. Installation of Memory

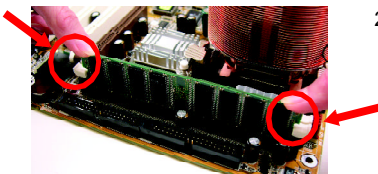
**CAUTION**

- Before installing or removing memory, please make sure that the computer power is turned off to prevent hardware damage.
- Please make sure that the memory used is supported by the motherboard.
- Memory modules have a foolproof insertion design. The memory can be installed only when facing the correct position. If you cannot insert the module, please switch directions.
- It is recommended that memory of similar capacity, specifications and brand be used.

The motherboard supports DIMM memory modules, whereby BIOS will automatically detect memory capacity and specifications. Memory modules are designed so that they can be inserted only in one direction.



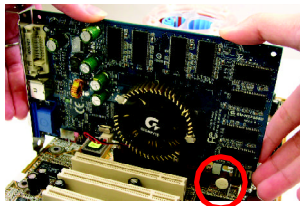
- Unfasten the clips on each end of the memory slots. Correctly align the memory module in the slot and push downwards..



- Once the memory module is correctly inserted, the clips will automatically refasten. If the memory module is positioned in the wrong direction, it will not insert. If this occurs, please switch directions.

## 2.3. Installation of the Graphics Card

1. Before installing the graphics card, please carefully read the accompanying user manual. As well, make sure the computer power is turned off.
2. When installing or removing the graphics card, first pull out the white AGU knob before insertion or removal. Releasing the AGU knob will hold the graphics card firmly in place.



## 2.4. What is Axper's A.G.U.?

Axper's Advanced Graphics Upgrade (A.G.U.) is a unique feature on 865GV motherboards that includes an added AGP graphics interface. Axper's A.G.U. allows the addition of a graphics card for high-performance graphics for multimedia and gaming applications. Axper's A.G.U. is both AGP 4X and 8X compatible and supports the new Microsoft DirectX 9.0 standard.

### The Advantages of Axper's A.G.U.

#### 1) Performance

Axper's 865GV motherboards offers better graphics output than other 865GV platforms due to the extra addition of a dedicated AGP graphics interface

#### 2) Flexibility

With the Axper A.G.U., users have the flexibility in choice of a wide range of AGP4X and AGP8X-based graphics cards (please refer to support list on manual or website) for their 865GV chipset platforms.

#### 3) Value

Axper's 865GV motherboards provide superior value by offering performance nearing to that of 865G chipset platforms but at a noticeably lower cost for great performance at unbelievable savings!

### 2.4.1. Graphics Card Support List

(The items below are all supported under the Windows XP operating system. When using an add-on graphics card, please first delete the onboard graphics driver before installing the driver for the add-on graphics card.)

Figure 1-1. 4X AGP Card

Graphics Chip	Maker	Model Name
Nvidia	Gigabyte	GV-GF2010D
	Gigabyte	GV-GF3000D
	Gigabyte	GV-GF1280T-32P
	Gigabyte	GV-GF3500TF-GH

To be continued...

Figure 1-2. 4X AGP Card

Graphics Chip	Maker	Model Name
Nvidia	ELSA	Gladiac 517
	ELSA	Gladiac 517vivo
	ELSA	Gladiac 525 A128
	Leadtek	WinFast A170 TH
	Leadtek	WinFast A250 TO
ATI	Leadtek	WinFast A250 Ultra
	Gigabyte	GV-AR64S-H
	Gigabyte	GV-AP128DG-H
	Gigabyte	GV-AF128D-GH
Gigabyte	Gigabyte	GV-AV32S
	Gigabyte	GV-AV64S

Figure 2. 8X AGP Card

Graphics Chip	Maker	Model Name
Nvidia	Gigabyte	GV-N4464D
	Gigabyte	GV-N4064T
	Gigabyte	GV-N52128DE
	Gigabyte	GV-N55128DP
	Gigabyte	GV-N57L128D
	Gigabyte	GV-N57128DE
	Gigabyte	GV-N57128DP
	Gigabyte	GV-N59X128D
	Gigabyte	GV-N68128DH
	Gigabyte	GV-N68T256D
	Gigabyte	GV-N68U256D
	ASUS	V9480-TVD
	MSI	MX440-VTD8X MS-8888
	MSI	Ti4600-TD-8X
	Leadtek	WinFast A280LE TD
Leadtek	WinFast A310 TD	
ATI	Albatron	Gigi
	Gigabyte	GV-R9700
	Gigabyte	GV-R9500
	Gigabyte	GV-R98P128D
	Gigabyte	GV-R7064T
	Gigabyte	GV-R92S64T
	Gigabyte	GV-R92128TE
	Gigabyte	GV-R92128DH
Gigabyte	Gigabyte	GV-R925128D
	Gigabyte	GV-R98X256D
SiS	Triplex	Xabre Pro
	Power Color	Xabre 600 Pro

For the most up-to-date information related to graphics card support, please link to our website at <http://www.axper.com>



### 3. BIOS Setup

BIOS (Basic Input and Output System) stores all the information of the motherboard settings that is needed for system initiation within the CMOS. The CMOS SETUP utility allows the user to make changes in BIOS configurations that are required or to activate certain features. The CMOS SETUP saves each item configuration in the CMOS SRAM of the motherboard. When the power is turned off, the battery on the motherboard supplies the required power to the CMOS SRAM.

When the power is turned on, pushing the <Del> button during the BIOS POST (Power-On Self Test) will bring up the CMOS SETUP screen. If you wish to enter the BIOS setup, please press "Ctrl + F1" at the BIOS setup screen.

When using BIOS setup for the first time, it is recommended that you save the present BIOS onto a disk in case you need to reset the BIOS back to its original settings. If you wish to update to a new BIOS, the "BIOSNow!" can be used.

The user can select "BIOSNow!" as a way to quickly and easily update or back up BIOS without entering the operating system.

#### 3.1. Setup Screen Features (BIOS version: F3)

- ※ When you enter the CMOS SETUP screen, you will see the following screen and setting selections as shown below.

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software	
<ul style="list-style-type: none"> <li>▶ Standard CMOS Features</li> <li>▶ Advanced BIOS Features</li> <li>▶ Integrated Peripherals</li> <li>▶ Power Management Setup</li> <li>▶ PnP/PCI Configurations</li> <li>▶ PC Health Status</li> <li>▶ Frequency/Voltage Control</li> </ul>	<ul style="list-style-type: none"> <li>Load Fail-Safe Defaults</li> <li>Load Optimized Defaults</li> <li>Set Supervisor Password</li> <li>Set User Password</li> <li>Save &amp; Exit Setup</li> <li>Exit Without Saving</li> </ul>
ESC: Quit	↑↓→←: Select Item
F8: BIOSNow!	F10: Save & Exit Setup
Time, Date, Hard Disk Type...	

#### Instructions

- <↑, ↓, ←, →, Enter> Movement in all four directions to highlight a desired option, pressing <Enter> will select the option and take you to its appropriate screen
- <Page Up, Page Down> Used to toggle up and down the available options for a particular item, whereby <Page Up> can also be used to increase value option and <Page Down> to decrease value option
- <Esc> Return to main setup screen or exit setup
- <F1> Gives the list of options available for each item
- <F2> Gives the list of options available for the current item
- <F5> Returns settings to previous values (not applicable to main setup screen)

<F6>	Gives the list of options available for each item
<F7>	Return to Optimized default values (not applicable to main setup screen)
<F8>	Enters Expert-Flash feature
<F9>	Displays system information
<F10>	Saves settings and exits setup

## 3.2. Standard CMOS Features

- ※ Includes the settings for items such as date, time, floppy disk drive specifications, and hard drives connected to the IDE interface.

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### Standard CMOS Features

		Item Help
Date (mm:dd:yy)	Mon, Apr, 18 2005	Menu Level▶
Time (hh:mm:ss)	11:20:24	Change the day, month, year
▶ IDE Channel 0 Master	[None]	<Week>
▶ IDE Channel 0 Slave	[None]	Sun. to Sat.
▶ IDE Channel 1 Master	[None]	<Month>
▶ IDE Channel 1 Slave	[None]	Jan. to Dec.
▶ IDE Channel 2 Master	[None]	<Day>
▶ IDE Channel 3 Master	[None]	1 to 31 (or maximum allowed in the month)
Drive A	[1.44M, 3.5"]	<Year>
Drive B	[None]	1999 to 2098
Floppy 3 Mode Suport	[Disabled]	
Halt On	[All, But Keyboard]	
Base Memory	640K	
Extended Memory	127M	
Total Memory	128M	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

### ■ Date (mm:dd:yy)

Allows you to setup the date in the mm:dd:yy fashion.

### ■ Time (hh:mm:ss)

Allows you to set up the date in the hh:mm:ss fashion. The time must be entered in the 24-hour format.

### ■ IDE Channel 0 Master(Slave) / IDE Channel 1 Master(Slave)

#### [IDE Device Setup]

IDE HDD Auto-Detection    Press "Enter" to select this option for automatic device detection.

IDE Channel 0 Master(Slave) / IDE Channel 1 Master(Slave) IDE Device Setup. You can use one of three methods:

Auto                      Allows BIOS to automatically detect IDE devices during POST(default)

None                      Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.

Manual                    User can manually input the correct settings

Access Mode            Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto)

Capacity                Capacity of currently installed hard disk.

Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.



## ■ IDE Channel 2/3 Master [IDE Device Setup]

IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.

IDE Channel 0 Master(Slave) / IDE Channel 1 Master(Slave) IDE Device Setup. You can use one of two methods:

Auto Allows BIOS to automatically detect IDE devices during POST(default)

None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.

Access Mode Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto)

Capacity Capacity of currently installed hard disk.

Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.

## ■ Drive A/B

Allows user to configure the type of floppy drive his/she installs.

Options: None (No floppy drive installed)  
 360K, 5.25" (5.25 inch PC-type high-density drive; 360K bytes capacity.)  
 1.2M, 5.25" (5.25 inch AT-type high-density drive; 1.2M bytes capacity.)  
 720K, 3.5" (3.5 inch double-sided drive; 720K bytes capacity.)  
 1.44M, 3.5" (3.5 inch double-sided drive; 1.44M bytes capacity.)  
 2.88M, 3.5" (3.5 inch double-sided drive; 2.88M bytes capacity.)

## ■ Floppy 3 Mode Support

Allows user to configure a Japanese standard 3 Mode floppy drive.

Options: Disabled (No 3 Mode drive installed)  
 Drive A (3 Mode Drive installed in A:)  
 Drive B (3 Mode Drive installed in B:)  
 Both (3 Mode Drive installed in A: and B:)

## ■ Halt on

Tells the BIOS specifically which types of errors will halt the computer during the power-on self test (POST) section of the boot.

Options: No Errors (Never halt when an error is detected)  
 All Errors (Halt whenever an error is detected)  
 All, But Keyboard (Halt whenever an error is detected with the exception of the keyboard)  
 All, But Diskette (Halt whenever an error is detected with the exception of the diskette)  
 All, But Disk/Key (Halt whenever an error is detected with the exception of the diskette and keyboard) (default:All, But Keyboard)

## ■ Memory

When BIOS is displayed during POST, memory capacity is also displayed as shown below:

Base Memory, Extended Memory, Total Memory (the user can verify the accuracy of these values)

### 3.3. Advanced BIOS Features

- ※ Allows the configuration of advanced settings such as boot sequence, password check, etc.

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Advanced BIOS Features

▶ Hard Disk Boot Priority	[Press Enter]	Item Help
First Boot Device	[Floppy]	Menu Level▶
Second Boot Device	[Hard Disk]	Select Boot Device
Third Boot Device	[CDROM]	priority
Password Check	[Setup]	
CPU Hyper-Threading#	[Enabled]	[Floppy]
Limit CPUID Max. to 3	[Disabled]	Boot from floppy
No-Execute Memory Protect <sup>(Note)</sup>	[Disabled]	
CPU Enhanced Halt (C1E) <sup>(Note)</sup>	[Disabled]	[LS120]
CPU Thermal Monitor 2(TM2) <sup>(Note)</sup>	[Disabled]	Boot from LS120
Init Display First	[AGU]	
On-Chip Frame Buffer Size	[16MB]	[HDD-0]
		Boot from First HDD
		[HDD-1]
		Boot from Second HDD
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

" # " If the installed CPU is an Intel Pentium 4 CPU supporting Hyper-Threading Technology, the system will automatically provide this option.

#### ■ Hard Disk Boot Priority

The user can select the boot order for hard disks connected to onboard IDE, SATA, SCSI, RAID controllers or other add-on cards.

#### ■ First / Second / Third Boot Device

The user can select the order in which the system will boot.

Options: Floppy, LS120, Hard Disk, CDROM, ZIP, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD, LAN, Disabled

#### ■ Password Check

Allows user to set a password. To remove the password entry requirement, enter SETUP and make sure there is no entry and then press <Enter>.

Options: System (Password entry is required during system start up and to enter CMOS SETUP)  
Setup (Password entry is required to enter CMOS SETUP)(default: Setup)

#### ■ CPU Hyper-Threading #

Allows user to enable the CPU Hyper-Threading function, of which must also be supported by the operating system. (default: Enabled)

#### ■ Limit CPUID Max. to 3

This option will be available when you install an Intel Prescott processor. Enable this item when you install old operating systems (example: NT 4.0) (default: Disabled)

(Note) If the installed CPU supports this function, the system will automatically provide this option.

- **No-Execute Memory Protect**<sup>(Note)</sup>  
Allows user to enable the No-Execute Memory Protect function. (default: Disabled)
- **CPU Enhanced Halt (C1E)**<sup>(Note)</sup>  
Allows user to enable the CPU Enhanced Halt (C1E) function. (default: Disabled)
- **CPU Thermal Monitor 2(TM2)**<sup>(Note)</sup>  
Allows user to enable the CPU Thermal Monitor 2(TM2) function. (default: Disabled)
- **Init Display First**  
Allows you to select whether to boot the system using the AGP graphics card or the PCI graphics card.  
Options: AGU (boot using AGU graphics card)  
Onboard (boot using onboard AGP)  
PCI (boot using PCI graphics card). (default: AGU)
- **On-Chip Frame Buffer Size**  
Allows user to set the size of the on-chip frame buffer.  
Options: 1MB/4MB/8MB/16MB/32MB (default:16MB)

### 3.4. Integrated Peripherals

- ※ This menu allows you to control the various ports of the computer such as IDE, SATA, USB, IEEE1394, COM port, LPT port, AC97 audio, etc.

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Integrated Peripherals

		Item Help
On-Chip Primary PCI IDE	[Enabled]	Menu Level▶
On-Chip Secondary PCI IDE	[Enabled]	If a hard disk
On-Chip SATA	[Auto]	controller card is
x SATA Port0 Configure as	SATA Port0	used, set at Disabled
x SATA Port1 Configure as	SATA Port1	
USB Controller	[Enabled]	[Enabled]
USB 2.0 Controller	[Enabled]	Enable onboard IDE
USB Keyboard Support	[Disabled]	PORT
USB Mouse Support	[Disabled]	
AC97 Audio	[Auto]	[Disabled]
Onboard H/W LAN	[Enabled]	Disable onboard IDE
POWER ON Function	[Disabled]	PORT
Onboard Serial Port 1	[3F8/IRQ4]	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[PRINTER]	
x ECP Mode Use DMA	3	
↑↓←→: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

- **On-Chip Primary PCI IDE**  
Allows the user to enable or disable the first onboard IDE channel.  
(default:Enabled)
- **On-Chip Secondary PCI IDE**  
Allows the user to enable or disable the second onboard IDE channel.  
(default:Enabled)

(Note) If the installed CPU supports this function, the system will automatically provide this option.

## ■ On-Chip SATA

Options: Disabled (Disable this function.)  
 Auto (When there is no device connected to IDE1 or IDE 2 channel, SATA will be configured as IDE mode.)  
 Manual (Manually configure SATA mode via the "SATA Port0 configure as" option.) (default:Auto)

## ■ SATA Port0 configure as (Set SATA Mode)

Options: IDE Pri. Master (Set SATA Port 0 to IDE Primary Master.)  
 IDE Pri. Slave (Set SATA Port 0 to IDE Primary Slave.)  
 IDE Sec. Master (Set SATA Port 0 to IDE Secondary Master.)  
 IDE Sec. Slave (Set SATA Port 0 to IDE Secondary Slave.)  
 SATA Port0 (Set SATA Port 0 to SATA Port0.) (This mode is supported by only Windows XP or later operating systems)  
 SATA Port1 (Set SATA Port 0 to SATA Port1.) (This mode is supported by only Windows XP or later operating systems) (default:SATA Port0)

## ■ SATA Port1 configure as

The item depends on what you set for "SATA Port0 configure as."

## ■ USB Controller

Allows the user to enable or disable the onboard USB2.0 controller. (default:Enabled)

## ■ USB 2.0 Controller

Allows the user to enable or disable the onboard USB2.0 (default:Enabled)

## ■ USB Keyboard Support

Allows user to use a USB-based keyboard (Enable if you are using a USB keyboard, otherwise Disable) (default:Disabled)

## ■ USB Mouse Support

Allows user to use a USB-based mouse (Enable if you are using a USB mouse, otherwise Disable) (default:Disabled)

## ■ AC97 Audio

Allows the user to use the onboard AC97 audio (default:Auto)

## ■ Onboard H/W LAN

Allows the user to enable or disable the onboard LAN (default:Enabled)

## ■ POWER ON Function

Allows the user to enable or disable the power on function (default:Disabled)

## ■ Onboard Serial Port 1

Allows the user to enable or disable the first onboard serial port

Options: Auto, 3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ4, 2E8/IRQ3, Disabled (default:3F8/IRQ4)

## ■ Onboard Parallel Port

Allows the user to enable or disable the onboard parallel port.

Options: 378/IRQ7, 278/IRQ5, 3BC/IRQ7, Disabled (default:378/IRQ7)

## ■ Parallel Mode

Use this to select the operation mode for the parallel port.

Options: PRINTER  
 SPP (normal)

- ECP (Extended Capabilities Port)
- EPP1.9+ECP (both EPP and ECP)
- EPP1.9+SPP (both EPP and SPP)
- EPP1.7+ECP (both EPP and ECP)
- EPP1.7+SPP (both EPP and SPP) (default:PRINTER)

### ■ ECP Mode Use DMA

Allows the user to select the ECP Mode Use DMA

Options: 1, 3, Disabled (default:3)

## 3.5. Power Management Setup

- ※ This is used to control the various power saving features of the PC.

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### Power Management Setup

		Item Help
ACPI Suspend Type	[S1(POS)]	Menu Level▶
Power LED in S1 State	[Blinking]	[S1]
Off by Power button	[Instant-Off]	Set suspend type to
AC Back Function	[Soft-Off]	Power On Suspend under
PME Event Wake Up	[Enabled]	ACPI OS
ModemRingOn/WakeOnLan	[Enabled]	
Resume by Alarm	[Disabled]	
x Date (of Month) Alarm	Everyday	[S3]
x Time (hh:mm:ss) Alarm	0 : 0 : 0	Set suspend type to
		Suspend to RAM under
		ACPI OS

↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help  
 F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults

### ■ ACPI Suspend Type

Allows user to select the Advanced Configuration and Power Interface(ACPI) as S1/ POS (Power On Suspend) or S3/STR(Suspend To RAM) (default:S1/POS)

### ■ Power LED in S1 state

Allows user to select the system LED status in the S1 (POS - Power On Suspend) state.

Options: Blinking (LED will blink)

Dual/OFF (When selecting this, the LED will turn off for a single-colored LED or change color for a dual-colored LED)(default:Blinking)

### ■ Off by Power button

Controls whether the PC shuts off immediately after hitting the power button or delaying a few seconds. (default:Instant-off)

Options: Instant-off (PC shuts off immediately)

Delay 4 Sec. (PC shuts off after a 4sec. delay)

### ■ AC Back Function

Allows user to select system status when power is removed and returned.

Options: Memory (return prior to power removal)

Full-On (return to full system power)

Soft-Off (use of Soft PWR button to power on system)(default:Soft-Off)

### ■ PME Event Wake Up

Allows user to select the Power Management Event (PME) wake up function which requires the system to have a +5VSB power supply using a rate of 1A or less. (default:Enabled)

### ■ ModemRingOn/WakeOnLan

To use this feature, an Ethernet card supporting the PCI2.2 or newer standard must be used. (default:Enabled)

### ■ Resume by Alarm

If set to Enabled, the user can set the date and time for automatic system power-on. (default:Disabled)

Settings:

Date (of Month) Alarm : Everyday, 1~31

Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59)

## 3.6. PnP/PCI Configuration

- ※ This menu allows you to configure your PCI slots. You can assign IRQ's for various PCI slots.

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PnP/PCI Configurations

PCI 1 IRQ Assignment	[Auto]	Item Help Menu Level▶ Device(s) using this INT:  IDE Cntrlr -Bus 0 Dev 31 Func 2 USB 1.1 Host cntrlr -Bus 0 Dev 29 Func 2
PCI 2 IRQ Assignment	[Auto]	
PCI 3 IRQ Assignment	[Auto]	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

### ■ PCI 1 IRQ Assignment

Allows you to assign an IRQ for the first PCI slot. Options: Auto,3,4,5,7,9,10,11,12,14, 15 (default:Auto)

### ■ PCI 2 IRQ Assignment

Allows you to assign an IRQ for the second PCI slot. Options: Auto,3,4,5,7,9,10,11,12, 14,15 (default:Auto)

### ■ PCI 3 IRQ Assignment

Allows you to assign an IRQ for the third PCI slot. Options: Auto,3,4,5,7,9,10,11,12,14, 15 (default:Auto)

### 3.7. PC Health Status

- ✗ This menu displays the current CPU temperature, the fan speeds, voltages etc.

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software  
PC Health Status

		Item Help
Current CPU Temperature	45°C	Menu Level▶
Current System Temperature	30°C	
Vcore	1.78V	
DDR25V	2.544V	
+3.3V	3.36V	
+5V	5.14V	
+12V	11.84V	
Current CPU FAN Speed	4440 RPM	
Current SYSTEM FAN Speed	0 RPM	
CPU Smart FAN Control	[Enabled]	
CPU Smart FAN Mode	[Auto]	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

#### ■ Current CPU / System Temperature

Automatically checks CPU & System temperature

#### ■ Current Voltage(V) Vcore / DDR25V / +3.3V / +5V / +12V

Automatically checks system voltage

#### ■ Current CPU / SYSTEM FAN Speed (RPM)

Automatically checks CPU/SYSTEM fan speed.

#### ■ CPU Smart FAN Control

Allows users to enable or disable the CPU Smart FAN Control function. (default: Enabled) With this item set to enabled, CPU fan changes speed depending on CPU temperature.

#### ■ CPU Smart FAN Mode

Allows users to set the CPU Smart FAN mode when CPU Smart FAN Control is set to Enabled. (default: Auto)

Options:    Auto (BIOS autochecks which type of CPU fan is installed and sets the optimal CPU Smart FAN control mode.)  
               Voltage (Set this item to Voltage if a 3-pin CPU fan is installed.)  
               PWM (Set this item to PWM if a 4-pin CPU fan is installed.)

Note:        In fact, you can set the CPU Smart Fan Control mode to Voltage for either 3-pin or 4-pin CPU fan. However, for those 4-pin CPU fans that are not designed following Intel's 4-wire fans PWM control specifications, setting the CPU Smart Fan Control mode to PWM may not effectively reduce the CPU fan speed.

### 3.8. Frequency/Voltage Control

- ※ This allows user to configure CPU frequency and voltage settings.

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Frequency/Voltage Control

CPU Clock Ratio	[15X]	Item Help
Memory Frequency For	[Auto]	Menu Level▶
Memory Frequency (Mhz)	266	Set CPU Ratio if CPU Ratio is unlocked
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Safe Defaults    F7: Optimized Defaults		

#### ■ CPU Clock Ratio

Allows user to set the CPU Clock Ratio.

If the CPU used locks this feature, then it will not be displayed or will not function. (based on CPU type)

#### ■ Memory Frequency For

Allows user to set memory frequency (default:Auto)

for FSB(Front Side Bus) frequency=533MHz,

2.0 Memory Frequency = Host clock X 2.0.

2.5 Memory Frequency = Host clock X 2.5.

Auto Set Memory frequency by DRAM SPD data.

for FSB(Front Side Bus) frequency=800MHz,

2.0 Memory Frequency = Host clock X 2.0.

1.66 Memory Frequency = Host clock X 1.66.

1.33 Memory Frequency = Host clock X 1.33.

Auto Set Memory frequency by DRAM SPD data.

#### ■ Memory Frequency (Mhz)

The memory frequency is based on the " Memory Frequency For" setting.



### 3.9. Load Fail-Safe Defaults

- ※ Use this option to reset your BIOS settings to the system defaults. You should only use this if you are encountering serious problems.  
Please select <Y> and <Enter> to load Fail-Safe defaults. Once this is loaded, your system may be slowed since this uses a minimal performance setting to allow stable system running.

### 3.10. Load Optimized Defaults

- ※ Like the Fail-Safe mode above, this option loads the BIOS default settings, but runs the system at optimal performance.  
Please select <Y> and <Enter> to load optimized defaults.

### 3.11. Set User Password

- ※ Use this to set the password that is needed to either enter into the BIOS or to boot the system. Entering in a blank field will disable the password.  
Please input an 8 character long password and then select Enter. You will be required to re-enter the password for confirmation. If you wish to remove the need for password entry, leave the entry blank and then select Enter. BIOS will then display "PASSWORD DISABLED". Once you have completed the password setting, you will need to go to "Advanced BIOS Features" and select "Password Check" for setup of password check.

### 3.12. Save & Exit Setup

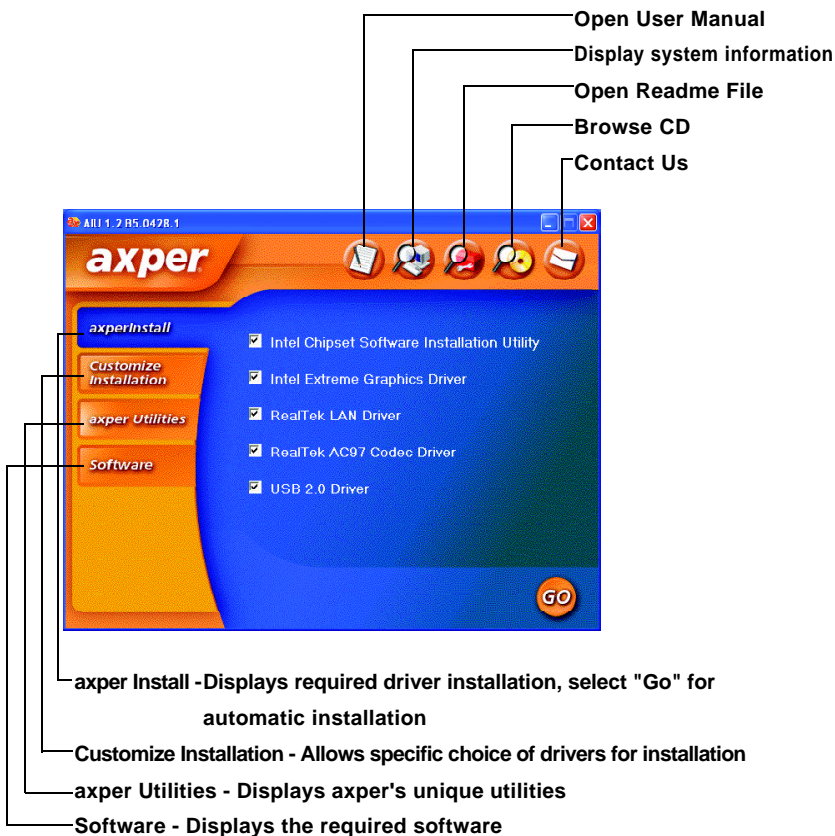
- ※ To save any changes you made to the BIOS you must choose this option. The system will automatically exit setup and perform a system restart. Pushing <F10> will have the same effect.  
Push <Y> and <Enter> to save and exit setup. If you do not wish to save, select <N> or <Esc> to return to the main menu.

### 3.13. Exit Without Saving

- ※ Use this option instead of the one above if you wish to exit the BIOS without saving the changes you have made. Pushing <ESC> will have the same effect.  
Push <Y> and <Enter> to exit setup. You can return to the main menu by pushing <N> or <Esc>.

## 4. Driver Installation

Driver installation for the Windows 98/98SE/2000/ME/XP operating systems is simple. Once you insert the provided driver disks into your optical drive, the AUTORUN screen will appear. If this screen does not appear, you can use "D:\setup.exe" (with "D" being the specified drive) to bring up the screen shown below. Just follow the screen instructions to easily complete driver installation.



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