

# **XP-K7S748**

AMD Socket A Processor Motherboard

## User's Manual

M-040601

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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>

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

We, Manufacturer/Importer  
 Gigatrend Technology Co., Ltd.  
 Ausschäfer Weg 41, D-76227 Heimburg, Germany  
 declare that the product  
 (description of the apparatus, system, installation to which it refers)  
**Motherboard**  
**XP-K7S/48**  
 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 50011               | Limits and methods of measurement of radio interference characteristics of industrial, scientific and medical (ISM) radio frequency equipment              | <input checked="" type="checkbox"/> EN 61008-2 | Disturbances in supply systems caused by household appliances and similar electrical equipment ("voltage fluctuations") |
| <input checked="" type="checkbox"/> EN 50013    | Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment                                     | <input checked="" type="checkbox"/> EN 55024   | Information Technology equipment-immunity characteristics-Limits and methods of measurement                             |
| <input checked="" type="checkbox"/> EN 55014-1  | Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, portable tools and similar electrical apparatus | <input checked="" type="checkbox"/> EN 50082-1 | Generic immunity standard Part 1: Residential and light industry  |
| <input checked="" type="checkbox"/> EN 55015    | Limits and methods of measurement of radio disturbance characteristics of broadcast transmitters and associated equipment                                  | <input checked="" type="checkbox"/> EN 50082-2 | Generic immunity standard Part 2: Industrial environment  |
| <input checked="" type="checkbox"/> EN 55020    | Immunity from radio interference of broadcast receivers and associated equipment   | <input checked="" type="checkbox"/> EN 55014-2 | Immunity requirements for household appliances tools and similar apparatus  |
| <input checked="" type="checkbox"/> EN 55022    | Immunity from radio interference of information technology equipment   | <input checked="" type="checkbox"/> EN 55019-2 | EMC requirements for uninterruptible power systems (UPS)  |
| <input checked="" type="checkbox"/> EN 55024    | Limits and methods of measurement of radio disturbance characteristics of information technology equipment   |  |   |
| <input checked="" type="checkbox"/> EN VDE 0815 | Class B distribution systems: Equipment for receiving audio distribution from secured and television signals   |  |   |

CE marking



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

- |  |   |  |   |
|--|---|--|---|
| <input checked="" type="checkbox"/> EN 60065 | Safety requirements for the mains operated electronic and related apparatus for household and similar general use | <input checked="" type="checkbox"/> EN 60958   | Safety for information technology equipment including electrical safety equipment |
| <input checked="" type="checkbox"/> EN 60335 | Safety of household and similar electrical appliances   | <input checked="" type="checkbox"/> EN 50191-1 | General and Safety requirements for uninterruptible power systems (UPS)           |

Manufacturer/Importer

Signature: Jimmy Huang

(Name)

Date: Jul. 2, 2004

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: 1735R Railroad Street  
City of Industry, CA 91748

Phone/Fax No. (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: Motherboard

Model Number: XP-K7S748

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.100(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 may cause undesired operation.

Representative Person's Name: ERIC LIU

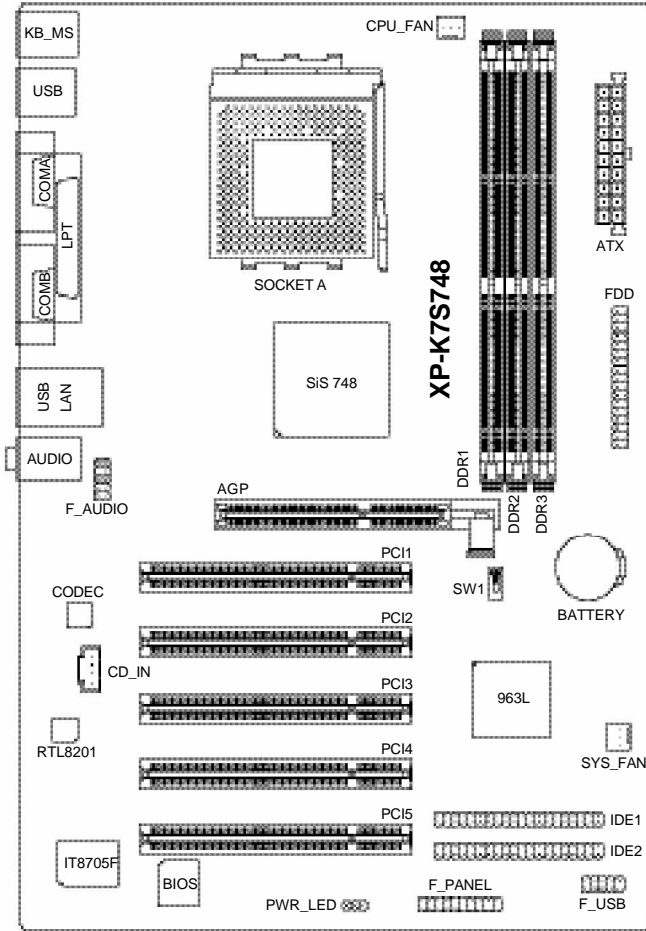
Signature: ERIC LIU

Date: Jul. 2, 2004

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# Motherboard Layout



# 1. Production Introduction

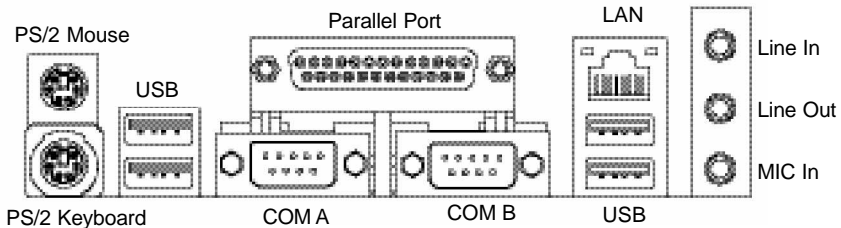
The user manual provides steps related to quick installation. If you wish to view complete product information, please select the , Open User Manual button located on the driver CD or link to our website at <http://www.axper.com> to received the most up-to-date information.

## 1.1. Feature Summary

CPU	Socket A for AMD Athlon™ XP/Athlon™/Duron™ processor 400/333/266MHz FSB Supports 1.4GHz and faster
Chipset	North Bridge: SiS 748 South Bridge: SiS 963L
Memory	3 184-pin DDR DIMM sockets, support up to 3GB DRAM (Max) Supports DDR400/DDR333/DDR266 DIMM Supports only 2.5V DDR SDRAM
Slots	1 AGP slot 4X/8X (1.5V) device support 5 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/ATA133) 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 Peripherals	1 Parallel port supports Normal/EPP/ECP mode 2 Serial port (COMA, COMB) 6 USB 2.0/1.1 ports (2 x Rear, 4 x Front by cable) 1 Front Audio connector 1 PS/2 Keyboard 1 PS/2 Mouse
On-Board LAN	Built-in RTL8201 1 RJ45 port
On-Board Sound	ALC655 CODEC Support 2/4/6 channel Line Out / Line In / Mic In CD In
BIOS	Licensed AWARD BIOS Supports BIOSNow!
I/O Control	IT8705F
Hardware Monitor	System voltage detect CPU/System temperature detect CPU/System fan revolution detect CPU/System fan failure warning CPU thermal shutdown function
Form Factor	ATX size form factor, 30.5mm x 19.9mm

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

### 1.2.1. I/O Back Panel







PS/2 Keyboard / PS/2 Mouse	Connects PS/2 standard keyboard and PS/2 standard mouse
Parallel port (LPT)	Connects to printer
COMA/COMB (Serial port)	Connects to serial-based mouse or data processing devices
LAN (RJ45 LAN Port)	Internet connection with speed of up to 10/100Mbps
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.
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

#### SW1 (System Jumper)

System clock can be adjusted to 100/133/166/200MHz. SW1 allows you to adjust the system clock.

- ON  ON: 100MHz (supports FSB 200MHz CPU, default)
- OFF 
- ON  OFF: Auto (133/166/200MHz, supports FSB 266/333/400MHz CPU)
- OFF 



If you are using a FSB 266MHz/333MHz or 400MHz CPU, please set the jumper to OFF (133/166/200MHz).

#### 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.



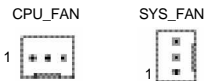
### IDE1 / IDE2 (IDE1 and IDE2 Connector)

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)

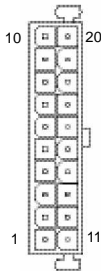
The CPU\_Fan power connector provides the largest amount of power to the CPU fan at 600mA. You can connect the casing fan to the SYS\_FAN connector to enhance system cooling.



PIN	SIGNAL
1	GND
2	+12V
3	Sense

### ATX (ATX Power Connector)

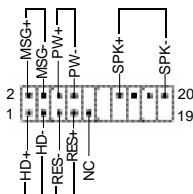
The ATX power connector provides power to the motherboard. Prior to connection, please make sure that the power supply is disconnected.



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

**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\_USB (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.

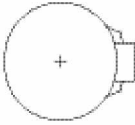


PIN	SIGNAL	PIN	SIGNAL
1	POWER	6	USB Dy+
2	POWER	7	GND
3	USB Dx-	8	GND
4	USB Dy-	9	NO PIN
5	USB Dx+	10	NC



## BATTERY (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:

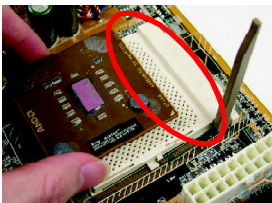
1. Please turn off your computer and unplug the power.
2. Remove the battery from the motherboard.
3. Wait 30 seconds and then replace the battery onto the motherboard.
4. Plug in the power supply and turn on your system.

## 2. Hardware Installation



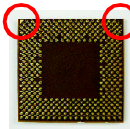
1. Please make sure that the CPU used is supported by your motherboard.
2. Please be aware of the placement position of the CPU. If the CPU does not insert properly, do not apply force but check the placement position.
3. Please make sure that an even layer of heat sink paste is added between the CPU 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

### 2.1. Installation of a Socket A CPU and Fan Sink



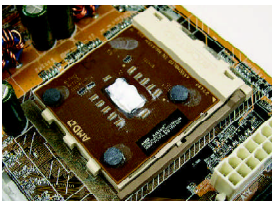
1

Note the small gold colored triangle on one corner of the CPU. Place the triangle in the corner closest to the metal lever and gently insert the CPU into its position.



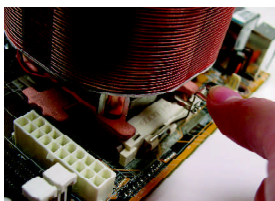
NOTE

A Socket A CPU has two indented corners and these corners must be properly positioned during installation.



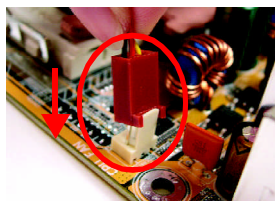
2

When the CPU is inserted into its position, gently press the metal lever downwards until a click is heard. Then add an even layer of heat sink paste between the CPU and fan sink for heat dissipation.



3 Position and attach the clips on one end of the fan sink firmly atop the CPU. Please

do the same for the clips on the other end of the fan sink.



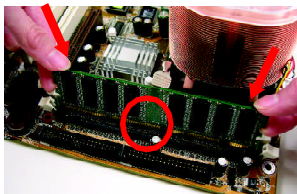
4 Connect the 3-pin cooler power connector to the CPU Fan connector located on the motherboard.

## 2.2. Installation of Memory

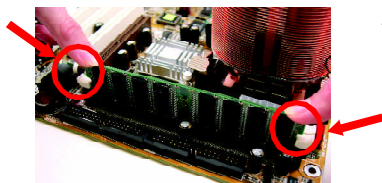
**CAUTION**

1. Before installing or removing memory, please make sure that the computer power is turned off to prevent hardware damage.
2. Please make sure that the memory used is supported by the motherboard.
3. 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.
4. 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.

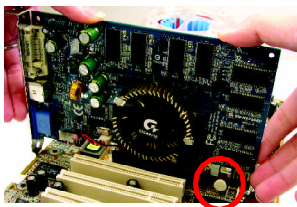


1. Unfasten the clips on each end of the memory slots. Correctly align the memory module in the slot and push downwards..



2. 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. Your graphics card must be 1.5V and support the AGP4X specification.
3. When installing or removing the graphics card, first pull out the white AGP knob before insertion or removal. Releasing the AGP knob will hold the graphics card firmly in place.

### 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: E6)

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

CMOS Setup Utility-Copyright (C) 1984-2004 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>Top Performance</li> <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 BIOSNow! 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.

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software  
Standard CMOS Features

Date (mm:dd:yy)	Sat, May 15 2004	Item Help
Time (hh:mm:ss)	22:31:24	Menu Level▶
▶ IDE Primary Master	[None]	Change the day, month, year
▶ IDE Primary Slave	[None]	<Week>
▶ IDE Secondary Master	[None]	Sun. to Sat.
▶ IDE Secondary Slave	[None]	<Month>
Drive A	[1.44M, 3.5"]	Jan. to Dec.
Drive B	[None]	<Day>
Floppy 3 Mode Suport	[Disabled]	1 to 31 (or maximum allowed in the month)
Holt On	[All, But Keyboard]	<Year>
Base Memory	640K	1999 to 2098
Extended Memory	127M	
Total Memory	128M	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Save Default    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 Primary Master(Slave) / IDE Secondary Master(Slave)

#### [IDE Device Setup]

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

IDE Primary Master(Slave) / IDE Secondary 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)

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



### 3.3. Advanced BIOS Features

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

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software  
Advanced BIOS Features

		Item Help
First Boot Device	[Floppy]	Menu Level▶
Second Boot Device	[HDD-0]	
Third Boot Device	[CDROM]	
Boot Up Floppy Seek	[Disabled]	Select Boot Device priority
Password Check	[Setup]	
Flexible AGP 8X	[Auto]	
Init Display First	[AGP]	[Floppy] Boot from floppy
		[LS120] Boot from LS120
		[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-Save Default    F7: Optimized Defaults		

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

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

Options: Floppy, LS120, HDD-0~HDD3, SCSI, CDROM, ZIP, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD, LAN, Disabled

#### ■ Boot Up Floppy Seek

This feature controls whether the BIOS checks for a floppy drive while booting up. (default: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)

#### ■ Flexible AGP 8X

Allows user to set AGP card transfer rate.

Options: Auto, 4X (default:Auto)

#### ■ Init Display First

Allows you to select whether to boot the system using the AGP graphics card or the PCI graphics card.

Options: AGP (boot using AGP graphics card)  
PCI (boot using PCI graphics card). (default: AGP)

### 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.

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software  
Integrated Peripherals

IDE1 Conductor Cable	[Auto]	Item Help
IDE2 Conductor Cable	[Auto]	Menu Level▶
On-Chip Primary PCIIDE	[Enabled]	
On-Chip Secondary PCIIDE	[Enabled]	
AC97 Audio	[Enabled]	[Auto] Auto-detect IDE cable type
Onboard LAN device	[Enabled]	
USB Controller	[Enabled]	
USB Legacy Support	[Disabled]	
Onboard Serial Port 1	[3F8/IRQ4]	[ATA66/100/133] Set conductor cable to ATA66/100/133 (80 pins)
Onboard Serial Port 2	[2F8/IRQ3]	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP]	[ATA33] Set conductor cable to ATA33 (40 pins)
x ECP Mode Use DMA	3	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Save Default    F7: Optimized Defaults		

#### ■ IDE1 Conductor Cable

Allows user to select the type of IDE1 conductor cable. Prior to selecting the setting, please make sure that the IDE device and cables support the desired setting.

Options: Auto, ATA66/100, ATA33 (default:Auto)

#### ■ IDE2 Conductor Cable

Allows user to select the type of IDE2 conductor cable. Prior to selecting the setting, please make sure that the IDE device and cables support the desired setting.

Options: Auto, ATA66/100, ATA33 (default:Auto)

#### ■ 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)

#### ■ AC97 Audio

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

#### ■ Onboard LAN device

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

#### ■ USB Controller

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

**■ USB Legacy Support**

Allows the user to use a USB keyboard or mouse. (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 Serial Port 2**

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

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

**■ 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: SPP (normal)

EPP (Enhanced Parallel Port)

ECP (Extended Capabilities Port)

ECP+EPP (both ECP and EPP) (default:SPP)

**■ ECP Mode Use DMA**

Allows the user to select the ECP mode use DMA

Options: 3, 1 (default:3)



### 3.5. Power Management Setup

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

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software  
Power Management Setup

		Item Help
ACPI Suspend Type	[S1(POS)]	Menu Level▶
Soft-Off by PWR_BTTN	[Off]	
System After AC Back	[Off]	
IRQ [3-7, 9-15], NMI	[Enabled]	[S1]
ModemRingOn	[Enabled]	Set suspend type to
PME Event Wake Up	[Enabled]	Power On Suspend under
Power On by Keyboard	[Disabled]	ACPI OS
Power On by Mouse	[Disabled]	
Resume by Alarm	[Disabled]	
x Month Alarm	NA	[S3]
x Day (of Month)	Everyday	Set suspend type to
x Time (hh:mm:ss)	0 0 0	Suspend to RAM under
Power LED in S1 state	[Blinking]	ACPI OS

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

#### ■ Soft-off by PWR\_BTTN

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

Options: Off (PC shuts off immediately)

Suspend (Press power button 4 sec to power off. Enter suspend if button is pressed less than 4 sec)

#### ■ System After AC BACK

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

Options: Off (Always in off state when AC back)

On (Always power on system when AC back)

Laststate (System power on depends on the status before AC lost)  
(default:Off)

#### ■ IRQ [3-7, 9-15], NMI

When IRQ [3-7, 9-15] or NMI triggered, the suspend timer will be reloaded to prevent system gets into green mode. (default:Enabled)

#### ■ ModemRingOn

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

#### ■ 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)



### ■ PCI2 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)

### ■ PCI3 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.

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### PC Health Status

Vcore	OK	Item Help
DDR25	OK	Menu Level▶
+3.3V	OK	
+12V	OK	
Current CPU Temperature	47°C	
Current CPU FAN Speed	4687 RPM	
Current System FAN Speed	0 RPM	
↑↓→←: Move    Enter: Select    +/-/PU/PD: Value    F10: Save    ESC: Exit    F1: General Help F5: Previous Values    F6: Fail-Save Default    F7: Optimized Defaults		

### ■ Current Voltage(V) Vcore / DDR25 / +3.3V / +12V

Automatically checks system voltage

### ■ Current CPU Temperature

Automatically checks CPU temperature

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

Automatically checks CPU/System fan speed



### ■ CPU Voltage Control

Allows user to set the CPU voltage. (default:Normal)

Please note that by overclocking your system through the increase of the CPU voltage, system instability or damage to the CPU may occur.

Options: Normal (automatic setting of CPU voltage as CPU required)  
+5%, +7.5%, +10% (CPU voltage range)

## 3.9. Top Performance

- × "Top Performance" allows faster system start. However, the result may differ depending on system specifications (includes hardware and OS). For example, certain hardware may become unstable under Windows XP but work reliably under the Windows NT operating system. Thus, select Disabled under "Top Performance" if system hardware is affected.

## 3.10. 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.

## 3.11. 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.

## 3.12. 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.

## 3.13. Save & Exit Setup

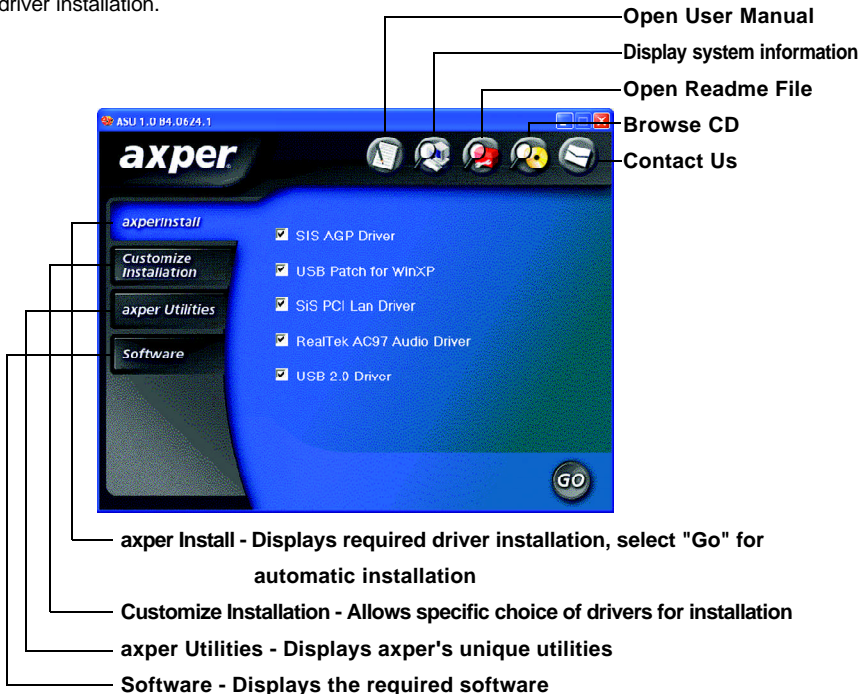
- × To save any changes you made to the BIOS you must choose this option. The system will automatically exit setup and perform a system restart. Pushing <F10> will have the same effect.  
Push <Y> and <Enter> to save and exit setup. If you do not wish to save, select <N> or <Esc> to return to the main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

### 3.14. 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/200/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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