XP-P4I533E

Intel® Pentium® 4 Processor Motherboard

User's Manual

M-040602

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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.axper.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.

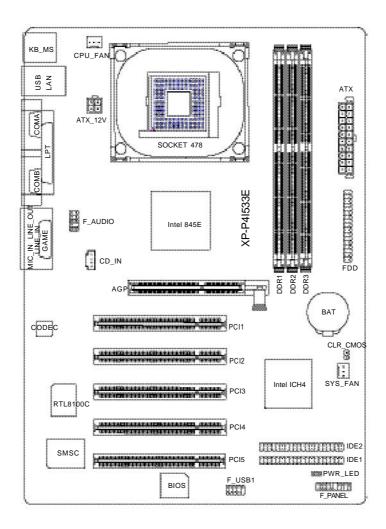




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Motherboard Layout



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1. Production Introduction

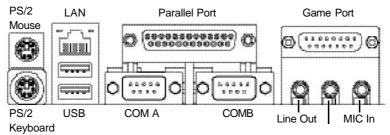
The user manual provides steps related to quick installation. If you wish to view complete product information, please select the "Open User Manual button located on the driver CD or link to our website at http://www.axper.com to received the most up-to-date information.

1.1. Feature Summary

CPU	Socket 478 for Intel®Pentium®4 (Northwood) with HT Technology			
	Intel®Pentium®4 400/533MHz FSB			
	2nd cache depends on CPU			
Chipset	North Bridge: Intel® 845E			
	South Bridge: Intel® ICH4			
Memory	3 184-pin DDR DIMM sockets, supports up to 3GB DRAM (Max)			
	Supports DDR200/DDR266 DIMM			
	Supports only 2.5V DDR SDRAM			
Slots	1 AGP slot 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) 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)			
	4 USB 2.0/1.1 ports (2 x Rear, 2 x Front by cable)			
	1 Front Audio connector			
	1 PS/2 Keyboard			
	1 PS/2 Mouse			
On-Board LAN	Builit-in RTL8100C chipset			
	1 RJ45 port			
On-Board Sound	C-Media 9761 CODEC			
	Support 6 channel			
	Line Out / Line In / Mic In			
	CD In			
BIOS	Licensed AWARD BIOS			
	Supports BIOSNOW!			
I/O Control	SMSC			
Hardware Monitor	CPU Fan Revolution detect			
	CPU temperature detect			
	System Voltage detect			
Form Factor	ATX size form factor, 29.5cm x 20.0cm			

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

1.2.1. I/O Back Panel



Connects PS/2 standard keyboard and PS/2 standard		
mouse		
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.		
Internet connection with speed of up to10/100Mbps		
Connects to printer		
Connects to serial-based mouse or data processing devices		
Connects to speakers or headphones		
Connects to optical devices, CD players and other audio		
input devices		
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. $\frac{1}{2}$

1 33

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		1	GND
	4000	2	+12V
		3	Sense

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
3 0 1 4	2	GND
1 2 2	3	+12V
L	4	+12V

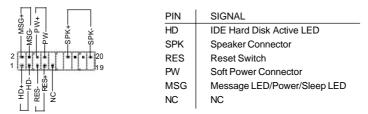
ATX (ATX Power Connector)

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

y\	PIN	SIGNAL	PIN	SIGNAL
10 20	1	3.3V	11	3.3V
	2	3.3V	12	-12V
0.0	3	GND	13	GND
n o	4	VCC	14	PS_ON (soft on/off)
	5	GND	15	GND
0 0	6	VCC	16	GND
	7	GND	17	GND
1 0 0 11	8	Power Good	18	-5V
1 [[*]*]	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.



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.

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 1-2Pin.



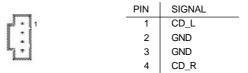
F_AUDIO (Front Audio Connector)

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.



CD_IN (Optical Drive Audio Connector)

Connects CD-ROM or DVD-ROM audio connector.

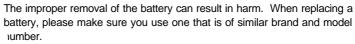


F_USB1 (Front USB Connector)

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

BAT1(Battery)





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

f you wish to delete the data stored in the CMOS, please follow the steps pelow:

- 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.
- 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.
- Please make sure that an even layer of heat sink paste is added between the CPU and the fan sink.
- 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 Pentium 4 CPU and Fan Sink



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.



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.



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.



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

2.2. Installation of Memory



- 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.
- Memory modules have a foolproof insertion design. The memory can be in stalled 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

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 mod ule is positioned in the wrong direction, it will not insert. If this occurs, please switch directions.

2.3. Installation of the Graphics Card

- 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.



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 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:E5)

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

 Standard CMOS Features 	Top Performance	
 Advanced BIOS Features 	Load Fail-Safe Defaults	
Integrated Peripherals	Load Optimized Defaults	
▶ Power Management Setup	Set Supervisor Password	
 PnP/PCI Configurations 	Set User Password	
▶ PC Health Status	Save & Exit Setup	
► Frequency/Voltage Control	Exit Without Saving	
ESC: Quit	↑↓→←: Select Item	
F8: BIOSNOW!	V! F10: Save & Exit Setup	

Instructions

$<\uparrow,\downarrow,\leftarrow,\rightarrow$,Enter>	Movement in all four directions to highlight a desired option, pressing <enter> will select the option and take you to its appropriate screen</enter>
<page down="" up,page=""></page>	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</page></page>
<esc></esc>	Return to main setup screen or exit setup
<f1></f1>	Gives the list of options available for each item
<f2></f2>	Gives the list of options available for the current item
<f5></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.

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

	Standard CMOS Features	
Date (mm:dd:yy)	Fri, Jan 9 2004	Item Help
Time (hh:mm:ss)	22:31:24	Menu Level▶
		Change the day, month,
▶ IDE Primary Master	[None]	year
▶ IDE Primary Slave	[None]	
▶ IDE Secondary Master	[None]	<week></week>
▶ IDE Secondary Slave	[None]	Sun. to Sat.
Drive A	[1.44M, 3.5"]	<month></month>
Drive B	[None]	Jan. to Dec.
Floppy 3 Mode Suport	[Disabled]	
		<day></day>
Holt On	[All, But Keyboard]	1 to 31 (or maximum
		allowed in the month)
Base Memory	640K	
Extended Memory	127M	<year></year>
Total Memory	128M	1999 to 2098
↑↓→←: 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.

 $\label{localized} \mbox{IDE Primary Master(Slave) / IDE Secondary Master(Slave) IDE Device Setup. You can use one of three methods:$

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:

HB/LBA/Large/Auto(default:Auto)

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

■ 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 poweron 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 ex

ception 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.

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

	Advanced BIOS Fea	atures	
First Boot Device	[Floppy]		Item Help
Second Boot Device	[HDD-0]		Menu Level▶
Third Boot Device	[CDROM]		Select Boot Device
Boot Up Floppy Seek	[Disabled]		priority
Password Check	[Setup]		
CPU Hyper-Threading#	[Enabled]		[Floppy]
DRAM Data Integrity Mode	Non-ECC		Boot from floppy
Init Display First	[AGU]		
			[LS120]
			Boot from LS120
			[HDD-0]
			Boot from First HDD
			[HDD-1]
			Boot from Second HDD
↑↓→←: Move Enter: Select	+/-/PU/PD: Value	F10: Save E	ESC: Exit F1: General Help
F5: Previous Values	F6: Fail-Save Default	F.	7: Optimized Defaults

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

■ 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)

■ CPU Hyper-Threading

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

■ DRAM Data Integrity Mode

This feature allows the selection of ECC Memory. To disable this feature, please select "Non-ECC". (default:Non-ECC)

■ Init Display First

Allows you to select whether to boot the system using the AGP graphics card or the 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	
On-Chip Primary PCI IDE	[Enabled]	Item Help
On-Chip Secondary PCI IDE	[Enabled]	Menu Level▶
IDE1 Conductor Cable	[Auto]	If a hard disk
IDE2 Conductor Cable	[Auto]	controller card is
USB Controller	[Enabled]	used, set at Disabled
USB Keyboard Support	[Disabled]	
USB Mouse Support	[Disabled]	[Enabled]
AC97 Audio	[Auto]	Enable onboard IDE
Onboard H/W LAN	[Enabled]	PORT
Onboard LAN Boot ROM	[Disabled]	
Onboard Serial Port 1	[3F8/IRQ4]	[Disabled]
Onboard Serial Port 2	[2F8/IRQ3]	Disable onboard IDE
UART Mode Select	[Normal]	PORT
x UR2 Duplex Mode	Half	
x TxD,RxD Polarity Active	Lo,Hi	
x Use IR Pins	IR-Rx2Tx2	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP]	
x ECP Mode Use DMA	3	
Game Port Address	[201]	
Midi Port Address	[Disabled]	
x Midi Port IRQ	10	
↑↓→←: Move Enter: Select	+/-/PU/PD: Value F10: Save	ESC: Exit F1: General Help
F5: Previous Values	F6: Fail-Save Default	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)

■ 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)

■ USB Controller

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

■ Onboard LAN Boot ROM

Allows user to enable or disable booting from a network drive. (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 first onboard serial port

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

■ UART Mode Select

This feature allows the user to select the onboard I/O chipset IR function.

Options: Normal, IrDA, ASKIR (default: Normal)

■ UR2 Duplex Mode

This feature can be configured when Normal in not selected under "UART Mode Select" and allows the user to configure the method of IR transmission (duplex or single mode).

Options: Half,Full (default:Half)

■ TxD, RxD Polarity Active

This feature can be configured when Normal in not selected under "UART Mode Select" and allows the user to configure RxD, TxD activity.(default: Lo,Hi)

■ Use IR Pins

This feature can be configured when Normal in not selected under "UART Mode Select" and allows the user to configure the IR Pins.

Options: IR-Rx2Tx2,RxD2,TxD2 (default:IR-Rx2Tx2)

■ 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)

EPP (Enhanced Parallel Port)
ECP (Extended Capabilities Port)
EEP1.9+ECP (both ECP and EPP)
EEP1.9+SPP (both ECP and EPP)
EEP1.7+ECP (both ECP and EPP)

EEP1.9+SPP (both ECP and EPP) (default:SPP)

■ Game Port Address

Allows the user to select the Game Port Address Options: 201, 209, Disabled (default:201)

■ Midi Port Address

Allows the user to select the Midi Port Address
Options: 300, 330, 290, Disabled (default:Disabled)

■ Midi Port IRQ

This feature can be configured when "Midi Port Address" is not disabled.

Allows the user to select the Midi Port IRQ

Options: 5, 10 (default:10)

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	
ACPI Suspend Type	[S1(POS)]	Item Help
Power LED in S1 State	[Blinking]	Menu Level▶
Soft-Off by PWR-BTTN	[Instant-Off]	[S1]
AC Back Function	[Soft-Off]	Set suspend type to
PME Event Wake Up	[Enabled]	Power On Suspend under
ModemRingOn	[Enabled]	ACPI OS
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 F5: Previous Values	+/-/PU/PD: Value F10: Save F6: Fail-Save Default	ESC: Exit F1: General Help 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)

■ Soft-off by PWR-BTTN

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

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:

 $\begin{array}{ll} \mbox{Date (of Month) Alarm}: & \mbox{Everyday, 1\sim31} \\ \mbox{Time (hh: mm: ss) Alarm}: & (0{\sim}23): (0{\sim}59): (0{\sim}59) \end{array}$

■ POWER ON Function

Allows the use of the mouse or keyboard to power system.

Options: Disabled, Any Key, Mouse, Mouse/AnyKey(default:Disabled)

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 Configi	urations		
PCI 1 /PCI 5	IRQ Assignment	[Auto]			Item Help
PCI 2	IRQ Assignment	[Auto]		Menu	Level▶
PCI 3	IRQ Assignment	[Auto]		Device	e(s) using this
PCI 4	IRQ Assignment	[Auto]		INT:	
					y Cntrlr Dev 5 Func 0
↑↓→←: Move	Enter: Select	+/-/PU/PD: Value	F10: Save	ESC: Exit	F1: General Help
F5: Prev	ious Values	F6: Fail-Save Default		F7: Optimized I	Defaults

■ PCI 1 / PCI 5 IRQ Assignment

Allows you to assign an IRQ for the 1st / 5th 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 2nd 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 3rd PCI slot. Options: Auto,3,4,5,7,9,10,11,12,14, 15 (default:Auto)

■ PCI 4 IRQ Assignment

Allows you to assign an IRQ for the 4th 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	
Current CPU Temperature	45°C	Item Help
Current SYSTEM Temperature	30°C	Menu Level▶
Vcore	1.78V	
+3.3V	3.36V	
+5V	5.14V	
+12V	11.84V	
+1.8V	1.80V	
Current CPU FAN Speed	4440 RPM	
Current SYSTEM FAN Speed	0 RPM	
1		
↑↓→←: Move Enter: Select	+/-/PU/PD: Value F10: Sa	ve ESC: Exit F1: General Help
F5: Previous Values	F6: Fail-Save Default	F7: Optimized Defaults

■ Current CPU / SYSTEM Temperature

Automatically checks CPU & SYSTEM temperature

■ Current Voltage(V) Vcore / +3.3V / +5V / +12V / +1.8V

Automatically checks system voltage

■ Current CPU / SYSTEM FAN Speed (RPM)

Automatically checks CPU/SYSTEM fan speed

■ CPU FAN Fail Warning

Allows user to configure the CPU FAN fail warning feature. (default:Disabled)

■ SYSTEM FAN Fail Warning

Allows user to configure the SYSTEM FAN fail warning feature. (default:Disabled)

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
CPU Host Clock Control	[Disabled]	Menu Level▶
* CPU Host Frequency (Mhz)	100	Set CPU Ratio if CPU
PCI/AGP Fixed	33 / 66	Ratio is unlocked
Host/DRAM Clock ratio	[Auto]	
Memory Frequency (Mhz)	266	
PCI/AGP Frequency (MHz)	33/66	
CPU OverVoltage Control	[Normal]	
DIMM OverVoltage Control	[Normal]	
AGP OverVoltage Control	[Normal]	
Ü		
↑↓→←: Move Enter: Select	+/-/PU/PD: Value F10: Save	ESC: Exit F1: General Help
F5: Previous Values	F6: Fail-Save Default	F7: Optimized Defaults

This section is very dangerous for inexperienced users, and therefore it is not recommended that these settings be altered. An incorrect setting can result in system instability, corrupt data, or permanent hardware damage.

■ 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)

For Willamette CPU: 8X~23X default: 14X
For C-Stepping P4: 8X,10X~24X default: 15X
For Northwood CPU: 12X~24X default: 16X

■ CPU Host Clock Control

Allows user to use CPU Host Clock Control (default:Disabled)

Please note that if your system is overclocked and cannot restart, please wait 20secs. for automatic system restart or clear the CMOS setup data and perform a safe restart.

■ CPU Host Frequency (MHz)

If you wish to use this feature, please set the "CPU Host Clock Control" to Enabled. If this feature is disabled, the currently CPU frequency will be displayed.

The CPU Host Clock can be input between 100MHz to 355MHz.

If you have a FSB400 Pentium 4 CPU, please set the "CPU Clock" to 100MHz.

If you have a FSB533 Pentium 4 CPU, please set the "CPU Clock" to 133MHz.

■ Fixed PCI/AGP Frequency

This feature can be configured when the "CPU Host Frequency" is set to Enabled and allows the user to adjust the PCI/AGP Frequency without affecting the CPU Frequency.

■ Host/DRAM Clock Ratio

Allows the user to set the Host/DRAM Clock Ratio.

If the FSB(Front Side Bus) is at 400MHz.

2.66 Memory Frequency = Host clock x 2.66.

Auto Automatically sets memory frequency. (default:Auto)

If the FSB(Front Side Bus) is at 533MHz.

2.0 Memory Frequency = Host clock x 2.0.

2.5 Memory Frequency = Host clock x 2.5.

Auto Automatically sets memory frequency. (default:Auto)

■ Memory Frequency (Mhz)

The memory frequency is based on the CPU Host Frequency (Mhz) setting.

■ PCI/AGP Frequency(Mhz)

This feature will affect either "CPU Host Frequency" or "Fixed PCI/AGP Frequency".

■ CPU OverVoltage Control

Allows increase of CPU voltage. However, over increase of CPU voltage can cause damage to CPU.

Options: Normal, +5%, +7.5%, +10% (default:Normal)

■ AGP OverVoltage Control

Allows increase of AGP voltage. However, over increase of AGP voltage can cause damage to AGP.

Options: Normal, +0.1V, +0.2V, +0.3V (default:Normal)

■ DIMM OverVoltage Control

Allows increase of DIMM voltage. However, over increase of DIMM voltage can cause damage to DIMM.

Options: Normal, +0.1V, +0.2V, +0.3V (default:Normal)

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

We 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

W 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.

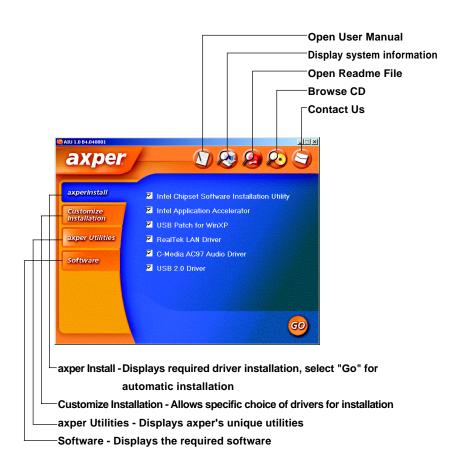
Push <Y> and <Enter> to save and exit setup. If you do not wish to save, select <N> or <Esc> to return to the main menu.

3.14. Exit Without Saving

We 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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