

## **FCC Information and Copyright**

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

The vendor makes no representations or warranties with respect to the contents here and specially disclaims any implied warranties of merchantability or fitness for any purpose. Further the vendor reserves the right to revise this publication and to make changes to the contents here without obligation to notify any party beforehand.

Duplication of this publication, in part or in whole, is not allowed without first obtaining the vendor's approval in writing.

The content of this user's manual is subject to be changed without notice and we will not be responsible for any mistakes found in this user's manual. All the brand and product names are trademarks of their respective companies.

## TABLE OF CONTENTS

<i>Chapter 1: Introduction</i> .....	3
1.1    P4TPG775 Features .....	3
1.2    Package Checklist.....	5
1.3    Layout of P4TGP775.....	6
1.4    Components of P4TGP775 .....	7
<i>Chapter 2: Hardware Installation</i> .....	8
2.1    Central Processin Unit (CPU).....	8
2.2    Memory Modules Installation.....	10
2.3    Connectors and Slots.....	11
2.4    Headers and Jumpers.....	12
2.5    Award BIOS beep code.....	17
2.6    Troubleshooting .....	17
<i>Chapter 3: WarpSpeeder™</i> .....	18
3.1    Introduction.....	18
3.2    System Requirement .....	18
3.3    Installation.....	19

## **CHAPTER 1: INTRODUCTION**

### **1.1 P4TPG775 FEATURES**

#### **A. Hardware**

##### **CPU**

- Supports single Pentium 4 processor with the 1-MB L2 cache and Celeron D with the 2k6K L2 cache in the 90 nm processes in an LGA 775 package.
- Intel Platform Compatibility Guide 04B
- Front side bus at the following frequency ranges:
  - 533 MT/s (133 MHz Core Clock)
  - 800 MT/s (200 MHz Core Clock)
- Supports Hyper-Threading Technology.

##### **Chipset**

- North Bridge: Intel 915P.
- South Bridge: Intel ICH6R.

##### **Main Memory**

- Supports DDR-333/400
- Supports 256-Mb, 512-Mb, 1G-Mb DDR technologies for x8 and x16 non-ECC DDR devices.
- Maximum DRAM address decode space of 4GB (assuming 32-bit addressing.)
- Support for non-ECC memory only.
- Registered DIMMs not supported.

##### **Super I/O**

- Chip: ITE IT8712.
- Low Pin Count Interface.
- Provides the most commonly used legacy Super I/O functionality.
- Environment Control initiatives,
  - H/W Monitor
  - Fan Speed Controller
  - ITE's "Smart Guardian" function

##### **Slots**

- 3 32-bit PCI bus master slots.
- 3 PCI-EXPRESSx1 slots.
  - Bandwidth 250MB/s per direction; 500MB/s Totally
  - PCI Express supports a raw bit-rate of 2.5Gb/s on the data pins.
  - 2X bandwidth over the traditional PCI architecture.
- 1 PCI-EXPRESSx16 slot.
  - Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

- SLR slot:
  - BIOSTAR Home Gate Way Slot used with BIOSTAR SOHO Router Card

#### **On Board IDE**

- Supports 1 IDE disk drives.
- Supports PIO Mode 5, Bride Mode and Ultra DMA 33/66/100 Bus Master Mode.

#### **IDE RAID Chip**

- Chip: ITE8212
- Supports 4 IDE disk drives.
  - Integrated RAID 0, RAID 1 and RAID 0+1 for RAID1/RAID2 slot.
- Supports PIO Mode 5, Bride Mode and Ultra DMA 33/66/100 Bus Master Mode.

#### **Serial ATA**

- Supports 4 Serial ATA (SATA) ports.
  - Intel Advanced Host Controller (AHCI).
  - Integrated RAID 0,RAID 1, and RAID 0+1 capabilities.
- Compliant with SATA 1.0 specification
- Data transfer rates up to 1.5 Gb/s

#### **LAN**

- Chip: RTL8100C (optional)/8110S Gigabit LAN Chip
- Supports 10 Mb/s, 100 Mb/s and 1Gb/s auto-negotiation. (1Gb/s can be only supported with RTL8110S chipset.)
- Half/Full duplex capability.
- Supports ACPI power management

#### **IEEE 1394A Chip**

- Chip: VIA VT 6307.
- Support 2 ports with transfer up to 400Mb/s.

#### **On Board High Definition Audio Sound Codec**

- Chip: CMI9880/ALC880E
- Compliant with High Definition Audio specification..
- Supports 8 channels Audio Output
  - SNR > 95dB meet the consumer entertainment industry formats.
  - 192KHz with 24bits
  - 8 channel Smart Jack
  - Dolby Digital Interactive Content Encoder (Dolby DDICE)

#### **On Board Peripherals**

##### **a. Rear side**

- 1 parallel port. (SPP/EPP/ECP mode)
- 1 RJ-45 LAN jack (optional).
- 1 1394A Firewire port
- 2 serial ports.

---

---

## P4TGP775

- 4 USB2.0 ports.
- Audio ports in vertical position.
- Supports PS/2 mouse and PS/2 keyboard.

### b. Front Side

- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 1 front audio header.
- 1 S/PDIF header.
- 1 1394A Firewire port.
- 4 USB2.0 ports.

### Dimensions

- ATX Form Factor: 24.5 x 29.3cm (W x L)

## B. BIOS & Software

### BIOS

- Award legal BIOS.
- Supports APM1.2.
- Supports ACPI.
- Supports USB Function.

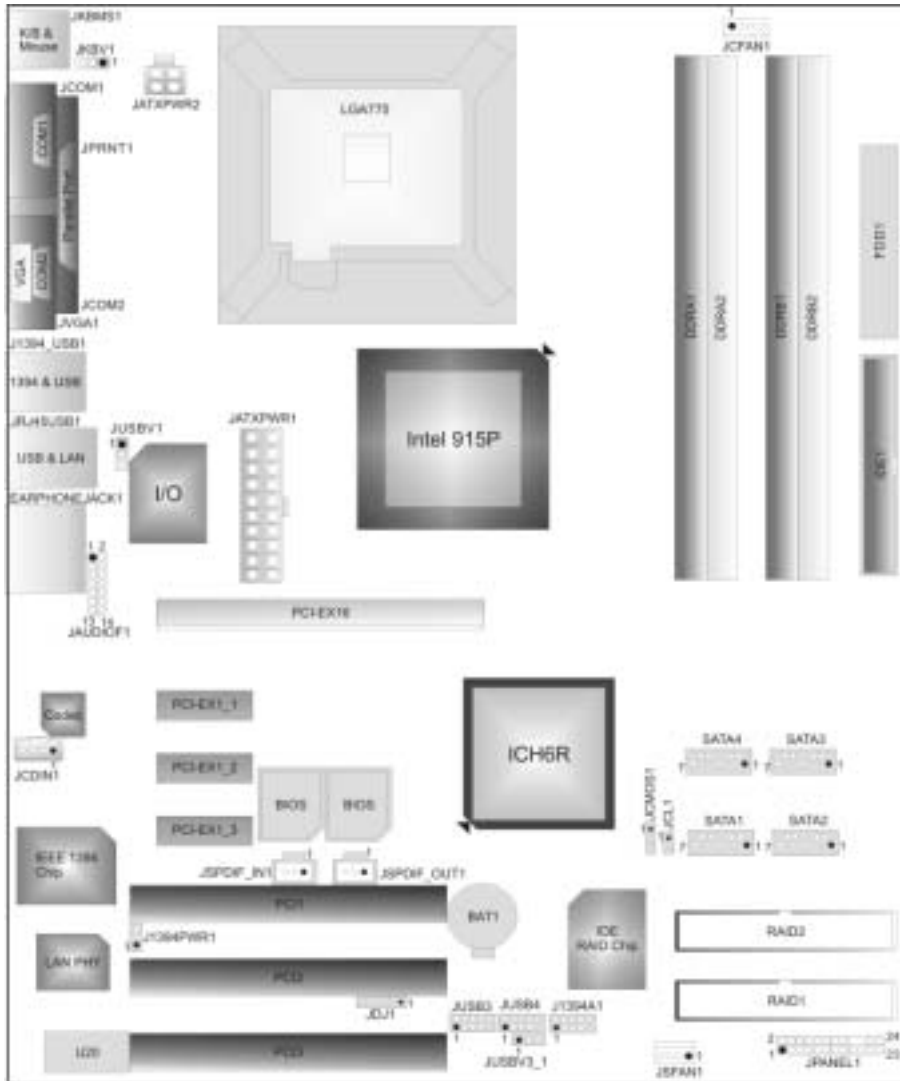
### Software

- Supports Warpspeeder™, 9th Touch™, WINFLASHER™ and FLASHER™.
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## 1.2 PACKAGE CHECKLIST

- FDD Cable X 1
- HDD Cable X 1
- User's Manual X 1
- Fully Setup Driver CD X 1
- Rear I/O Panel for ATX Case X 1
- USB 2.0 Cable X1 (optional)
- S/PDIF Cable X 1 (optional)
- Serial ATA Cable X 1 (optional)
- IEEE 1394 Cable X 1 (optional)
- Serial ATA Power Switch Cable X 1 (optional)

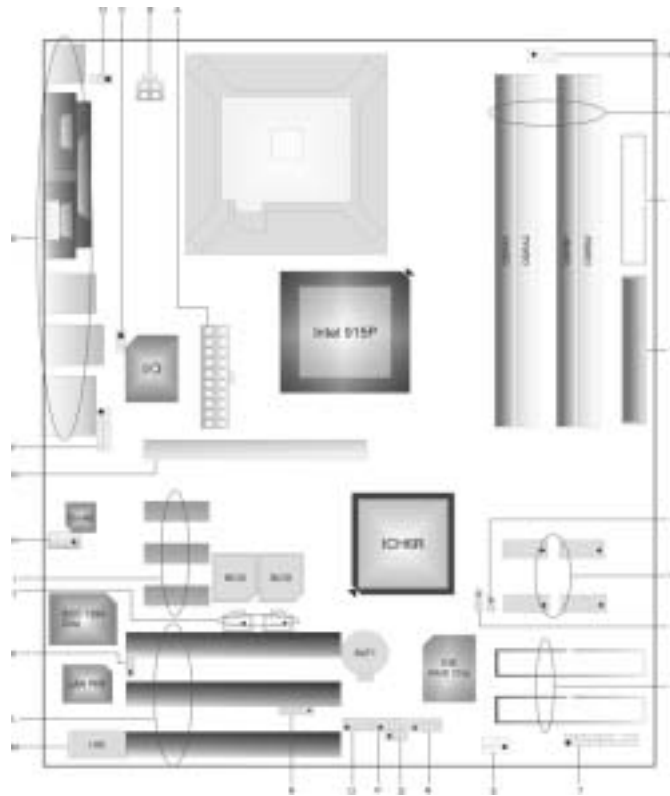
1.3 LAYOUT OF P4TGP775



Note:

1. ● represents the 1<sup>st</sup> pin.
2. One of the BIOS is optional.

**1.4 COMPONENTS OF P4TGP775**



- |  |  |
|--|--|
| <b>A.</b> JATXPWR1: ATX Power Connector                    | <b>O.</b> JUSB3: Front USB Header                  |
| <b>B.</b> JATXPWR2: ATX Power Connector                    | <b>P.</b> JUSB4: Front USB Header                  |
| <b>C.</b> JUSBV1: Power Source Selection for USB           | <b>Q.</b> JUSBV3_1: Power Source Selection for USB |
| <b>D.</b> JKBV1: Power Source Selection for Keyboard/Mouse | <b>R.</b> J1394A1: Front 1394 Header               |
| <b>E.</b> Back Panel Connectors                            | <b>S.</b> JSFAN1: System Fan Header                |
| <b>F.</b> JAUDIOF1: Front Audio Header                     | <b>T.</b> JPANEL1: Front Panel Connector           |
| <b>G.</b> PCI-EX16: PCI Express slot.                      | <b>U.</b> RAID1~2 Raid Connectors                  |
| <b>H.</b> JCDIN1: CD-ROM Audio-In Header                   | <b>V.</b> JCMOS1: Clear CMOS Header                |
| <b>I.</b> JSPDIF_OUT1/JSPDIF_IN1: Digital Audio Connector  | <b>W.</b> SATA1~4: Serial ATA Connectors           |
| <b>J.</b> PCI-EX1_1~3: PCI Express slot.                   | <b>X.</b> JCL1: Case Open Header                   |
| <b>K.</b> 1394PWR1: Selection 1394 Power Header            | <b>Y.</b> IDE1: Hard Disk Connectors               |
| <b>L.</b> PCI1~3: Peripheral Component Interconnect Slots  | <b>Z.</b> FDD1: Floppy Disk Connector              |
| <b>M.</b> U20: LAN card/Router card slot.                  | <b>A1.</b> DDRA1-2/DDR B1-2: DDR DIMM Modules      |
| <b>N.</b> JDJ1: Audio DJ Header                            | <b>A2.</b> JCFAN1: CPU Fan Connector               |

---

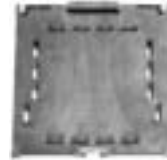
---

## CHAPTER 2: HARDWARE INSTALLATION

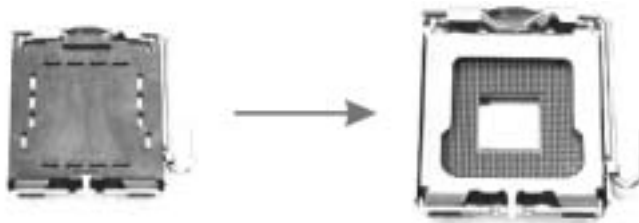
### 2.1 CENTRAL PROCESSIN UNIT (CPU)

***Special Notice***

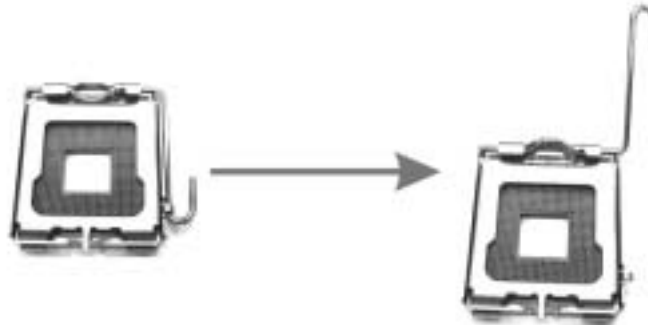
**Remove Pin Cap before installation, and make good preservation for future use. When the CPU is removed, cover the Pin Cap on the empty socket to ensure pin legs won't be damaged.**



Pin Cap



**Step 1:** Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.



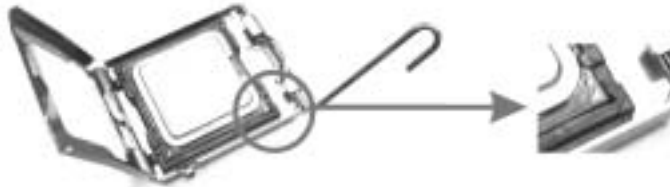
**Step 2:** Look for the black cut edge on socket, and the white dot on CPU should point wards this black cut edge. The CPU will fit only in the correct orientation.

*Step 2-1:*





Step 2-2:




**Step 3:** Hold the CPU down firmly, and then close the lever to complete the installation.




**Step 4:** Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the JCFAN1. This completes the installation.

**CPU FAN Header: JCFAN1**

 <p>JCFAN1</p>	Pin	Assignment
	1	Ground
	2	Power
	3	FAN RPM rate sense
	4	Smart Fan Control

**System Fan Header: JSFAN1**

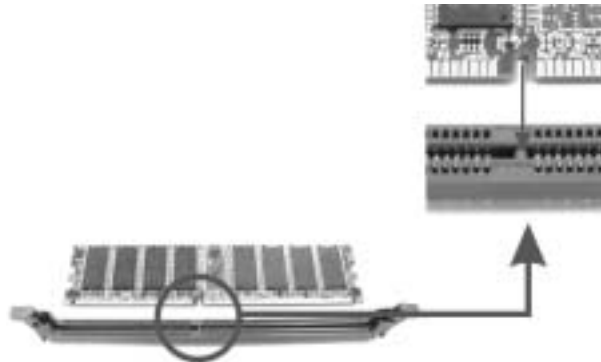
 <p>JSFAN1</p>	Pin	Assignment
	1	Ground
	2	Smart Fan Control
	3	FAN RPM rate sense

**Note:**

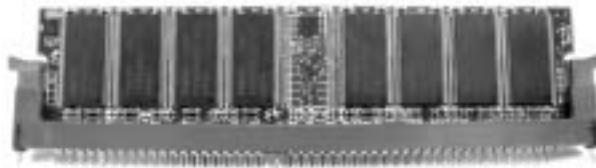
The JCFAN1 and JSFAN1 support system cooling fan with Smart Fan Control utility. It supports 3 pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

## 2.2 MEMORY MODULES INSTALLATION

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



### **Note:**

To assure the system safety, if you need to change DDR modules, firstly, please unplug the 12-pin power cable with the power connector, and then you can change the modules. Afterwards, plug in the cable the power connector again, and finally you can boot up the system.

**2.3 CONNECTORS AND SLOTS**

**Floppy Disk Connector: FDD1**

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

**Hard Disk Connectors: IDE1**

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~5, Bus Master, and Ultra DMA 33/ 66/ 100 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

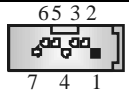
The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

**Peripheral Component Interconnect Slots: PCI 1~3**

This motherboard is equipped with 5 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

**Serial ATA Connector: SATA1~4**

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.

 <p>SATA1/SATA2 SATA3/SATA4</p>	Pin	Assignment	Pin	Assignment
	1	Ground	2	TX+
	3	TX-	4	Ground
	5	RX-	6	RX+
	7	Ground		

## 2.4 HEADERS AND JUMPERS

### 2.4.1 How to setup Jumpers

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



### 2.4.2 Detail Settings



#### Power Connectors: JATXPWR1/JATXPWR2

JATXPWR1: This connector allows user to connect 20-pin power connector on the ATX power supply.

JATXPWR2: By connecting this connector, it will provide +12V to CPU power circuit.

<p>JATXPWR1</p>	Pin	Assignment	Pin	Assignment
	1	+3.3V	13	+3.3V
	2	+3.3V	14	-12V
	3	Ground	15	Ground
	4	+5V	16	PS_ON
	5	Ground	17	Ground
	6	+5V	18	Ground
	7	Ground	19	Ground
	8	PW_OK	20	-5V
	9	Standby Voltage +5V	21	+5V
	10	+12V	22	+5V
	11	+12V	23	+5V
12	2 x 12 Detect	24	Ground	
<p>JATXPWR2</p>	Pin	Assignment	Pin	Assignment
	1	+12V	3	Ground
	2	+12v	4	Ground



**Power Source Selection for Keyboard/Mouse: JKBV1**

JKBV1	Assignment	Description
 Pin 1-2 close	+5V	+5V for key board and mouse
 Pin 2-3 close	+5V Standby Voltage	PS/2 mouse and PS/2 keyboard are powered with +5V standby voltage.

**Note:**

In order to support this function “Power-on system via keyboard and mouse”, “JKBV1” jumper cap should be placed on Pin 2-3.

**Power Source Selection for USB: JUSBV1/JUSBV3\_1**


JUSBV1/ JUSBV3_1	Assignment	Description
 Pin 1-2 close	+5V	JUSBV1: +5V for USB at the JUSB1 connector port. JUSBV3_1: +5V for USB at the JUSB2/3 connector ports.
 Pin 2-3 close	+5V standby Voltage	JUSBV1: JUSB1 port powered with standby voltage of 5V JUSBV3_1: JUSB2/3 ports powered with standby voltage of 5V

**Note:**

In order to support this function “Power-on system via USB device,” “JUSBV1/ JUSBV3\_1” jumper cap should be placed on Pin 2-3 individually.


**Front Panel Audio Header: JAUDIOF1**

This header allows user to connect the front audio out put cable with the PC front panel. It will disable the output on back panel audio connectors.

 JAUDIOF1			
Pin	Assignment	Pin	Assignment
1	Mic in/center	2	Ground
3	Mic power/Bass	4	Audio power
5	Right line out/Speaker out Right	6	Right line out/Speaker out Right
7	Reserved	8	Key
9	Left line out/Speaker out Left	10	Left line out/Speaker out Left
11	Right line in/Rear speaker Right	12	Right line in/Rear speaker Right
13	Left line in/Rear speaker Left	14	Left line in/Rear speaker Left


**CD-ROM Audio-in Header: JCDIN1**

This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..

 JCDIN1	Pin	Assignment
	1	Left channel input
	2	Ground
	3	Ground
	4	Right channel input


**Digital Audio Connector: JSPDIF\_OUT1**

This connector allows user to connect the PCI bracket SPDIF output header.


 JSPDIF_OUT1	Pin	Assignment
	1	+5V
	2	SPDIF_OUT
	3	Ground

**Digital Audio Connector: JSPDIF\_IN1**



This connector allows user to connect the PCI bracket SPDIF input header.

 JSPDIF_IN1	Pin	Assignment
	1	+5V
	2	SPDIF_IN
	3	Ground


**AUDIO DJ Connector: JDJ1**

 JDJ1	Pin	Assignment	Pin	Assignment
	1	SMBDATA	2	SMBCLK
	3	INT_B	4	Key
	5	AXT_PWROK		

**Power Source for 1394: J1394PWR1**

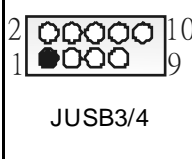
J1394PWR1	Assignment	Description
 Pin 1-2 close	+3.3V SB	+3.3V SB for 1394 chipset.
 Pin 2-3 close	+3.3V	+3.3V f for 1394 chipset. (Default)

**Front 1394 Header: J1394A1**

 J1394A1	Pin	Assignment	Pin	Assignment
	1	A+	2	A-
	3	Ground	4	Ground
	5	B+	6	B-
	7	+12v	8	+12V
	9	Key	10	Ground

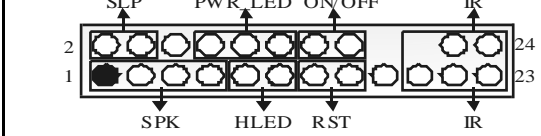
**Front USB Header: JUSB3/4**

This header allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.

 <p>JUSB3/4</p>	Pin	Assignment	Pin	Assignment
	1	+5V (fused)	2	+5V (fused)
	3	USB-	4	USB-
	5	USB+	6	USB+
	7	Ground	8	Ground
	9	Key	10	NC



**Front Panel Connector: JPANEL1**

This 24-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button, speaker and IrDA Connection. It allows user to connect the PC case's front panel switch functions.

					
Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep control	Sleep button
3	N/A		4	Ground	
5	N/A		6	N/A	N/A
7	Speaker		8	Power LED (+)	Power LED
9	HDD LED (+)	10	Power LED (+)		
11	HEE LED (-)	12	Power LED (-)		
13	Ground	Reset button	14	Power button	Power-on button
15	Reset control		16	Ground	
17	N/A		18	Key	
19	N/A	IrDA Connector	20	Key	IrDA Connector
21	+5V		22	Ground	
23	IRTX		24	IRRX	

**Close CMOS Header: JCMOS1**

By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.

JCMOS1		Assignment
1	 3 Pin 1-2 close	Normal Operation (Default).
1	 3 Pin 2-3 close	Clear CMOS data.

※ **Clear CMOS Procedures:**

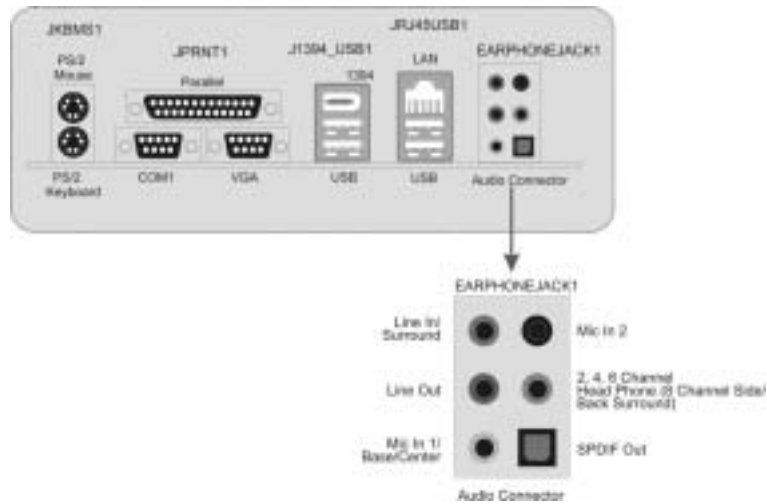
1. Remove AC power line.
2. Set the jumper to "Pin 2-3 dose".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 dose".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

**Case Open Header: JCL1**

This connector allows system to monitor PC case open status. If the signal has been triggered, it will record to the CMOS and show the message on next boot-up.

		Pin	Assignment
1	●	1	Case open signal
		2	Ground

**Back Panel Connectors**





**2.5 AWARD BIOS BEEP CODE**

<b>Beep</b>	<b>Meaning</b>
One long beep followed by two short beeps	Video card not found or video card memory bad
High-low siren sound	1. CPU overheated 2. System will shut down automatically
One Short beep when system boot-up	No error found during POST
Long beeps every other second	No DRAM detected or install

**2.6 TROUBLESHOOTING**

<b>Probable</b>	<b>Solution</b>
1. No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. 2. Indicator light on key board does not turn on.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from CD-ROM drive.	1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible.	1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

## **CHAPTER 3: WARPSPEEDER™**



### ***3.1 INTRODUCTION***

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overdock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

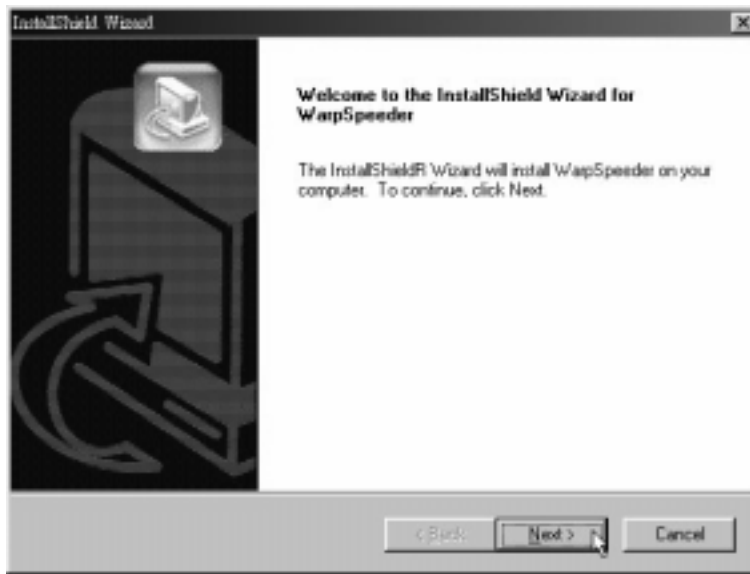
Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

### ***3.2 SYSTEM REQUIREMENT***

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP  
DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

### 3.3 **INSTALLATION**

1. Execute the setup execution file, and then the following dialog will pop up. Please click “Next” button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the “Launch the WarpSpeeder Tray Utility” checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click “Finish” button.



---

---

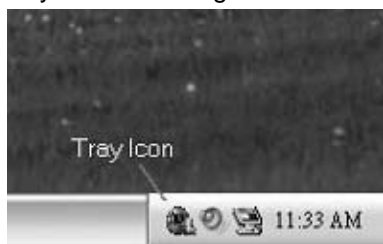
**Usage:**

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

**[WarpSpeeder™] includes 1 tray icon and 5 panels:**

**1. Tray Icon:**

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.

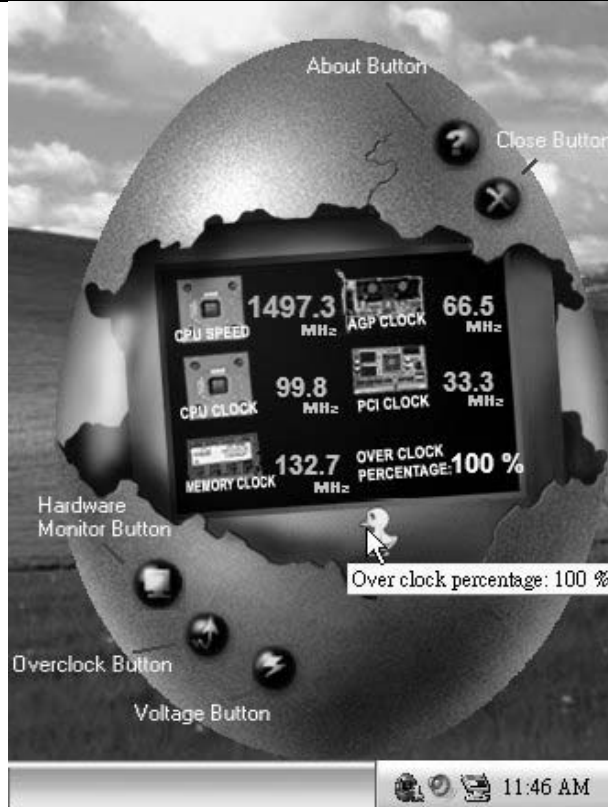


**2. Main Panel**

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

**Main Panel contains features as follows:**

- a. Display the CPU Speed, CPU external clock, Memory dock, AGP dock, and PCI dock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:
  - Man walking → overclock percentage from 100% ~ 110 %
  - Panther running → overclock percentage from 110% ~ 120%
  - Car racing → overclock percentage from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



#### 4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.



**Overclock Panel contains the these features:**

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

**Warning:**

Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. “Auto-overclock button”: User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will execute a series of testing until system fail. Then system will

---

---

do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

- d. "Verify button": User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

**Note:**

Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color (24/32 bit) that is required for Direct3D rendering.

**5. Hardware Monitor Panel**

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



**6. About Panel**

Click the "about" button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overlocking. You can

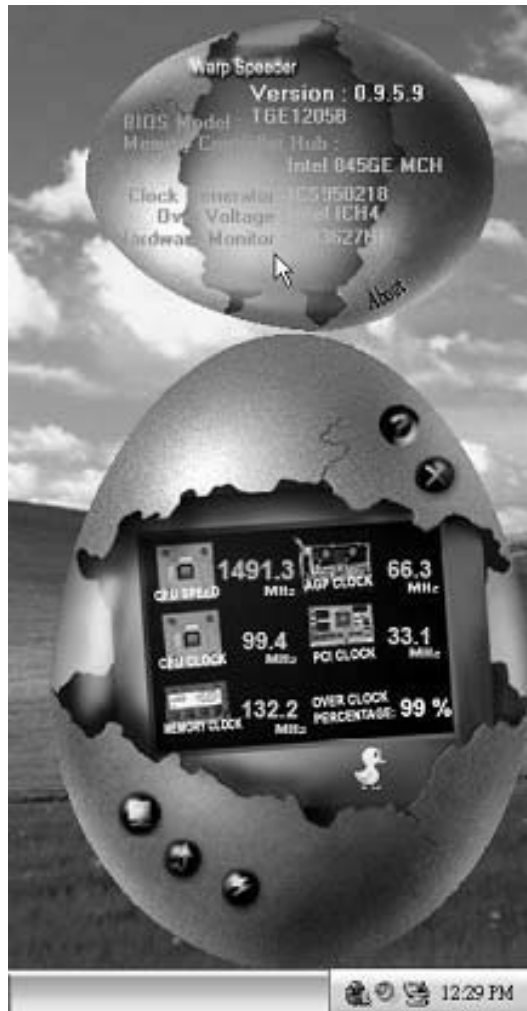


---

## P4TGP775

---

also get the mainboard's BIOS model and the Version number of [WarpSpeeder™] utility.



**Note:**

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [WarpSpeeder™] utility more robust.

*P4TGP775*

---

07/13/2004